



HEAVY DUTY CONNECTORS

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Rolling Stock

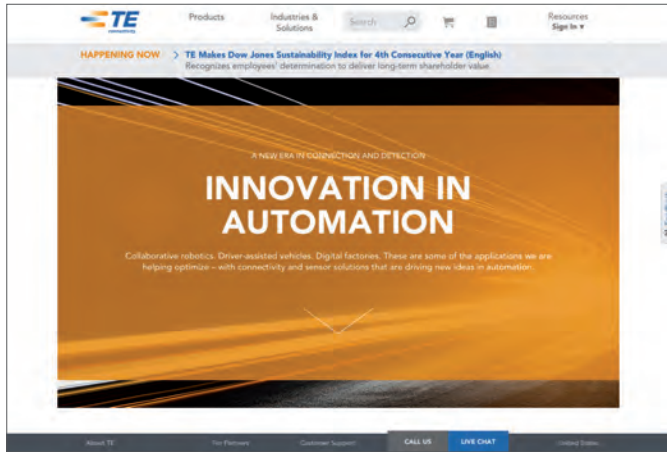


Machinery



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 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 electric/electronic 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 “●” 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/productcompliance
- More detailed information regarding the definitions used above

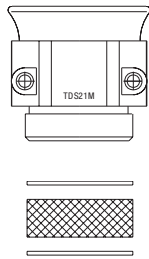
So whatever your questions when it comes to RoHS, we've got the answers at www.te.com/leadfree

RoHS
Customer
Support
Center 

General overview of heavy duty connectors

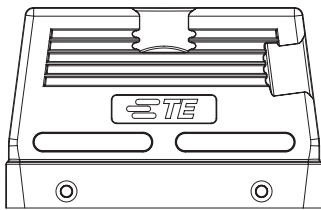
| | |
|---|---|
| <p>General features</p> | <p>TE's HDC product series is designed for data, signal and power connections in harsh environments. The modular connector design provides a high degree of flexibility so solutions can be customized for different applications such as machinery, robotics, railway, wind energy and conventional energy generation and distribution.</p> |
| <p>Inserts</p> | <p>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.</p> |
| <p>Enclosures</p> | <p>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.</p> |
| <p>Customized design</p> | <p>For customer's special requirement, we can provide customized design. Please contact us.</p> |
| <p>Specifications, Standards and Approvals</p> | <p>1. Specifications DIN VDE 0110 Concerning clearance and creepage distances DIN VDE 0627 Connectors and plug devices</p> <p>2. Standards DIN EN 175 301-801 DIN EN 60664-1 DIN EN 61 984 IEC 60 529</p> <p>3. Approvals</p> <p>     </p> |

Connector components



CABLE FITTING

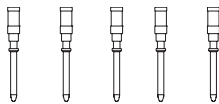
Special cable fittings for protection up to IP69K and for electro-magnetic compatibility available



HOOD

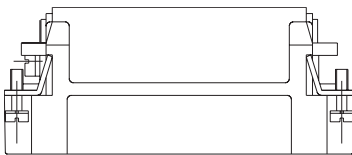
Standard and corrosion-resistant connector hoods:

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



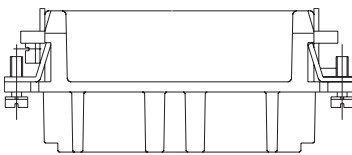
CONTACTS

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



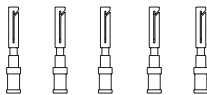
MALE INSERT

Screw, Spring clamp or crimp terminal



FEMALE INSERT

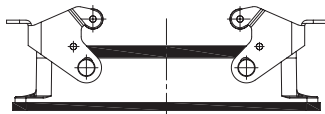
Screw, Spring clamp or crimp terminal



HOOD AND HOUSING

Standard and corrosion-resistant bottom-entry, surface-mounted and cable-to-cable hoods:

- 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

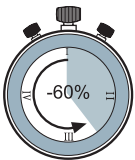
| Wire gauge (mm ²) | 1.5 | 2.5 | 4.0 | 6.0 | 10 | 16 |
|-------------------------------------|-----|-----|------|-----|-----|-----|
| Screw thread | M3 | M3 | M3.5 | M4 | M4 | M6 |
| Test moment of torque (Nm) | 0.5 | 0.5 | 0.8 | 1.2 | 1.2 | 1.2 |
| Min. pull-out for stranded wire (N) | 40 | 50 | 60 | 80 | 90 | 100 |

Spring terminal

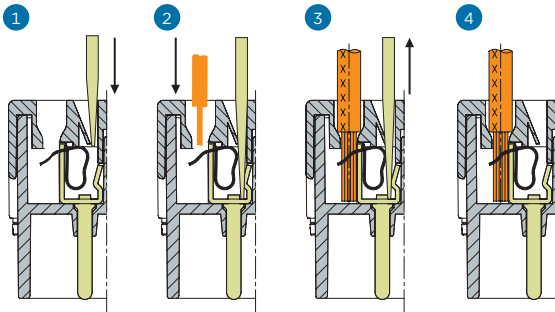
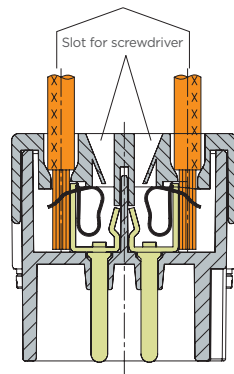
No special tools



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 mm² to 2.5 mm² (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.

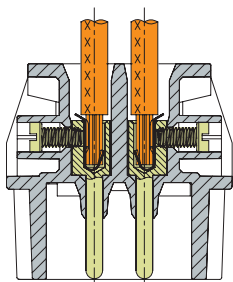
CRIMP TERMINATION

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

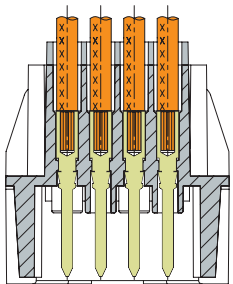
HA series
HE, HVE series
HSB series
HK series
HWK series
HEAV series



| Inserts | Max. wire gauge | | Stripping length L (mm) |
|----------------|-----------------|-----|----------------------------|
| | mm ² | AWG | |
| 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 |

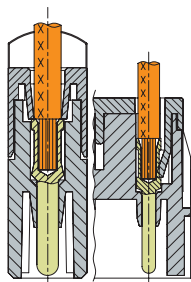
CRIMP TERMINAL

HD series
HDD series



| Inserts | Max. wire gauge | | Stripping length L (mm) |
|---|-----------------|-----|----------------------------|
| | mm ² | AWG | |
| HD HDD HMN(10A) HQ(10A) HK(10A) | 0.5 | 20 | 8.0 |
| | 0.75 | 18 | 8.0 |
| | 1.0 | 18 | 8.0 |
| | 1.5 | 16 | 8.0 |
| | 2.5 | 14 | 6.2 |

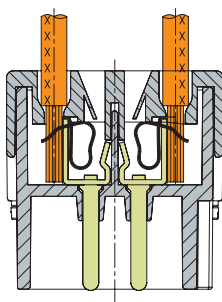
HAC, HEC series
HEEE, HEE series
HMN(16A/40A) series
HQ(16A/40A) series
HK(16A/40A) series



| Inserts | Max. wire gauge | | Stripping length L (mm) | |
|--|-----------------|-----|-------------------------|-----|
| | mm ² | AWG | 16A | 40A |
| HAC HEC HEE/HEEE HMN(16A/40A) HQ(16A/40A) HK(16A/40A) | 0.5 | 20 | 7.5 | - |
| | 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 L (mm) |
|-----------------|-----------------|-----|----------------------------|
| | mm ² | AWG | |
| 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 |

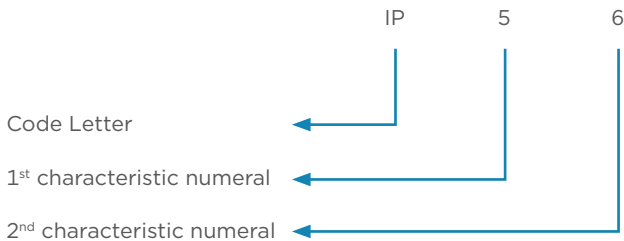
Notes

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 access to hazardous parts | |
|-------------------------|--|---|
| | short description | definition |
| 0 | No protection | |
| 1 | <ul style="list-style-type: none"> protection against solid foreign bodies of Ø 50mm protection against access to hazardous parts with the back of a hand | A sphere of Ø 50mm, must not intrude |
| 2 | <ul style="list-style-type: none"> protection against solid foreign bodies of Ø 12mm protection against access to hazardous parts with the finger | A sphere of Ø 12mm diameter, must not intrude |
| 3 | <ul style="list-style-type: none"> protection against solid foreign bodies of 2.5mm diameter and bigger protection against access to hazardous parts with a tool | A sphere of Ø 2.5mm diameter, must not intrude |
| 4 | <ul style="list-style-type: none"> protection against solid foreign bodies of 1.0mm diameter and bigger 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 tilted 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 catalogue, clearance and creepage distances of all products in the catalogue 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 lightning 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 – inhomogenous field, case B – homogenous 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 to norm 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.

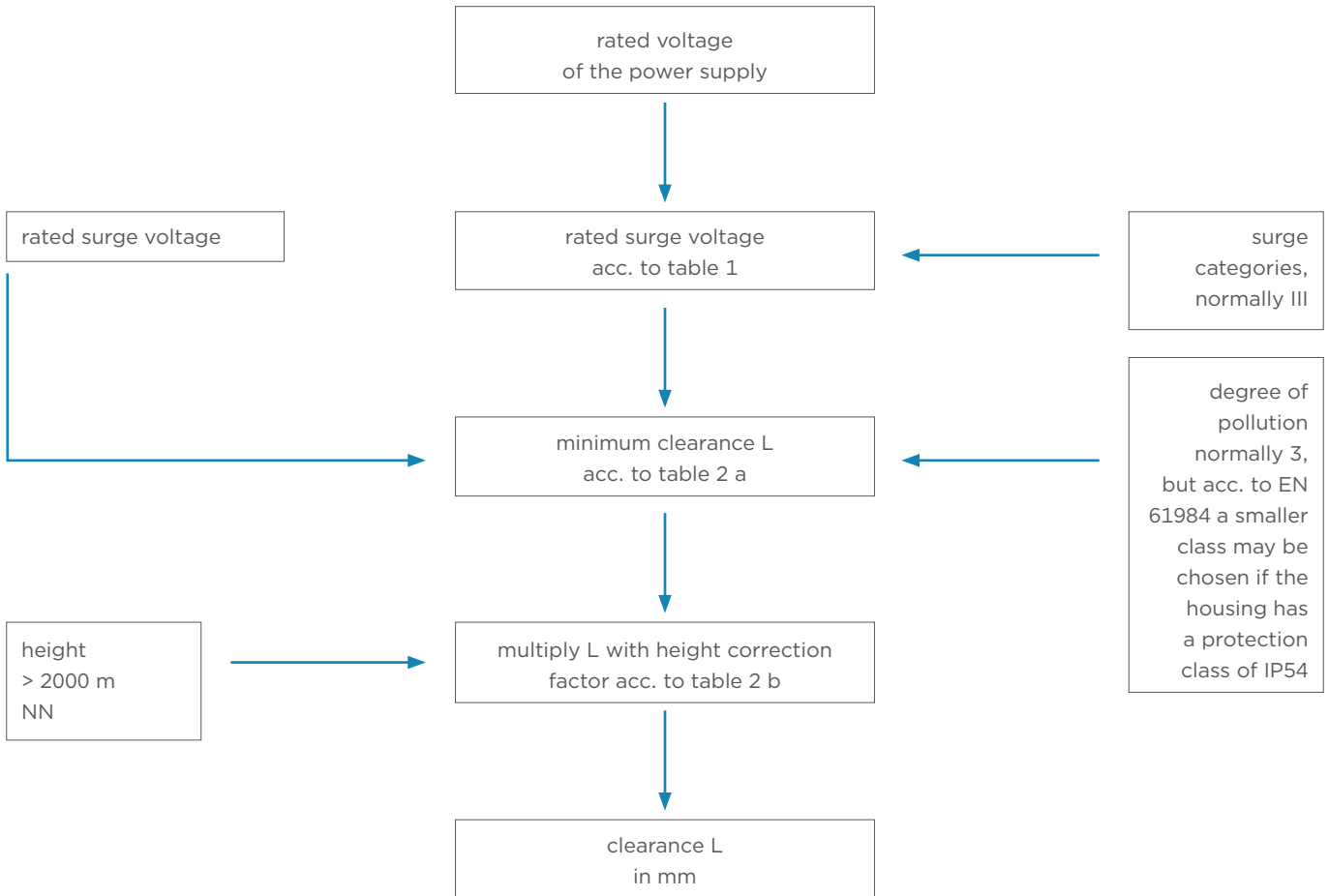
Insulation Material

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 voltage [kV]" | case A, inhomogenous field, degree of pollution | | | | case B, homogenous field, degree of pollution | | | |
|----------------------------|---|--------|--------|--------|---|--------|--------|--------|
| | 1 (mm) | 2 (mm) | 3 (mm) | 4 (mm) | 1 (mm) | 2 (mm) | 3 (mm) | 4 (mm) |
| 0.33 _) | 0.01 | _) | 0.80 | 1.6 | 0.01 | 0.2 | 0.8 | 1.6 |
| 0.40 | 0.02 | | | | 0.02 | | | |
| 0.5 _) | 0.04 | | | | 0.04 | | | |
| 0.60 | 0.06 | | | | 0.06 | | | |
| 0.80 _) | 0.10 | | | | 0.10 | | | |
| 1.0 | 0.15 | 0.25 | 1.0 | 0.2 | 0.15 | 0.3 | 0.5 | |
| 1.2 | 0.25 | | | | 0.2 | | | |
| 1.5 _) | 0.5 | 0.5 | 1.5 | 2 | 0.3 | 0.3 | 1.2 | |
| 2.0 | 1.0 | 1.0 | | | 0.45 | 0.5 | | |
| 2.5 _) | 1.5 | 1.5 | 2 | 2 | 0.6 | 0.6 | 2 | |
| 3.0 | 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

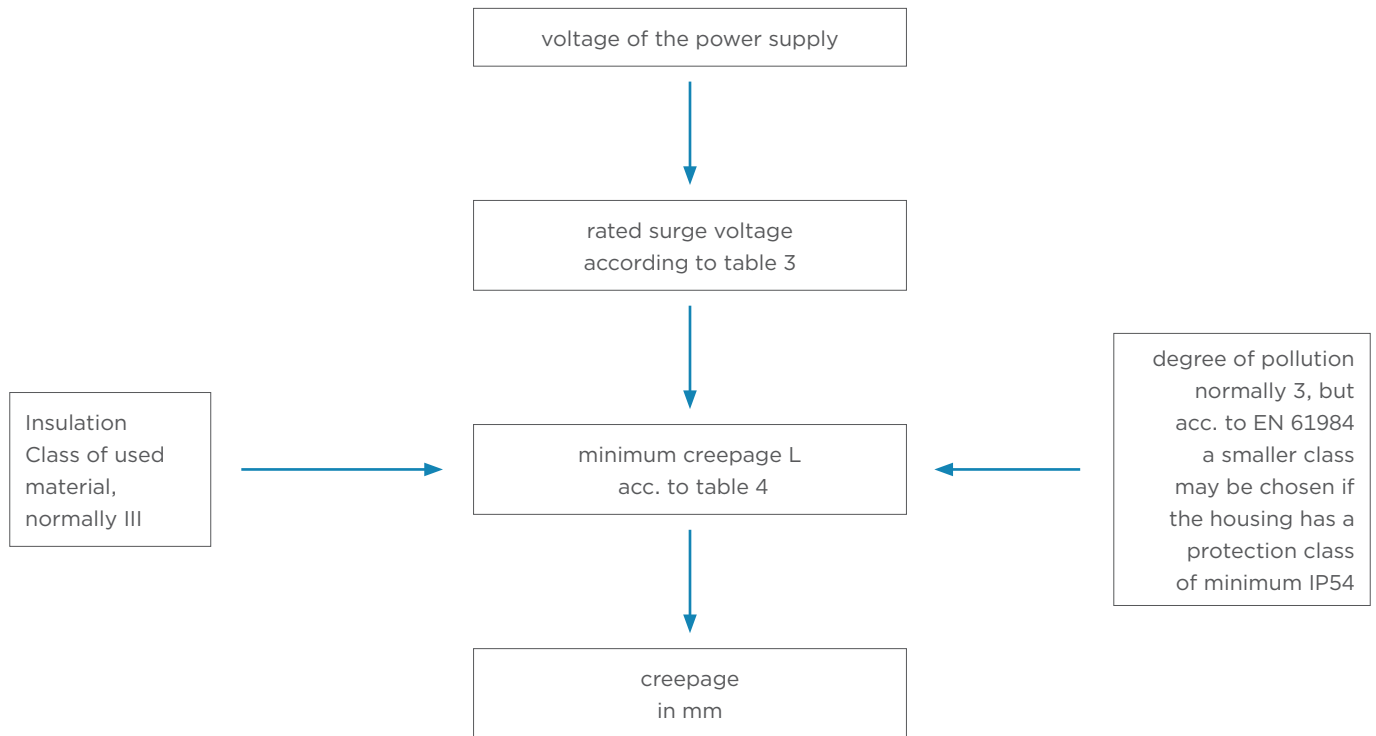
_) Preferred values

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

CREEPPAGES IN [MM] FOR ELECTRICAL EQUIPMENTS

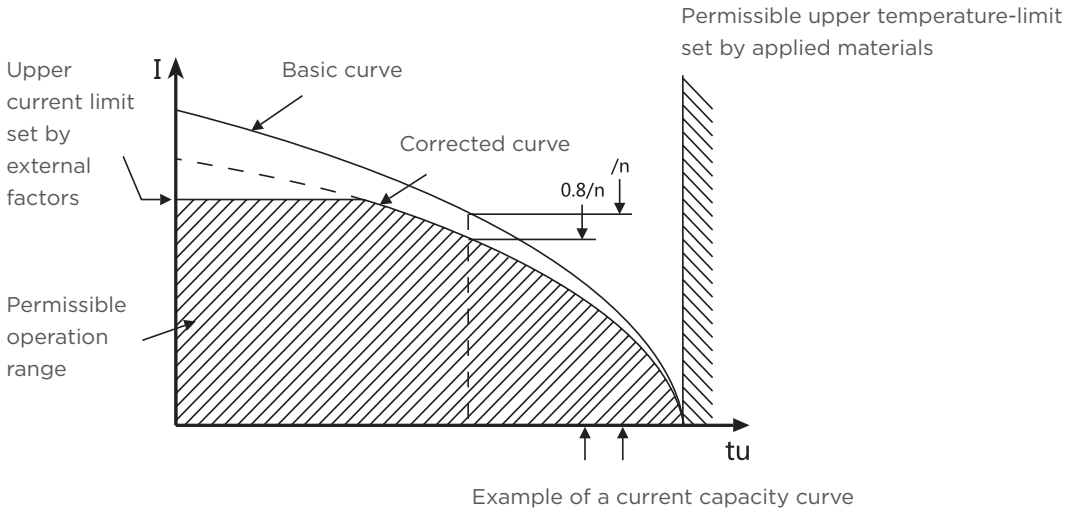
| rated voltage [V] | degree of pollution | | | | | | | | | |
|-------------------|-------------------------|--------------------|------|------|--------------------|------|------|--------------------|------|------|
| | 1 All Insulator Classes | 2 Insulation Class | | | 3 Insulation Class | | | 4 Insulation Class | | |
| | | I | II | III | I | II | III | I | II | III |
| 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

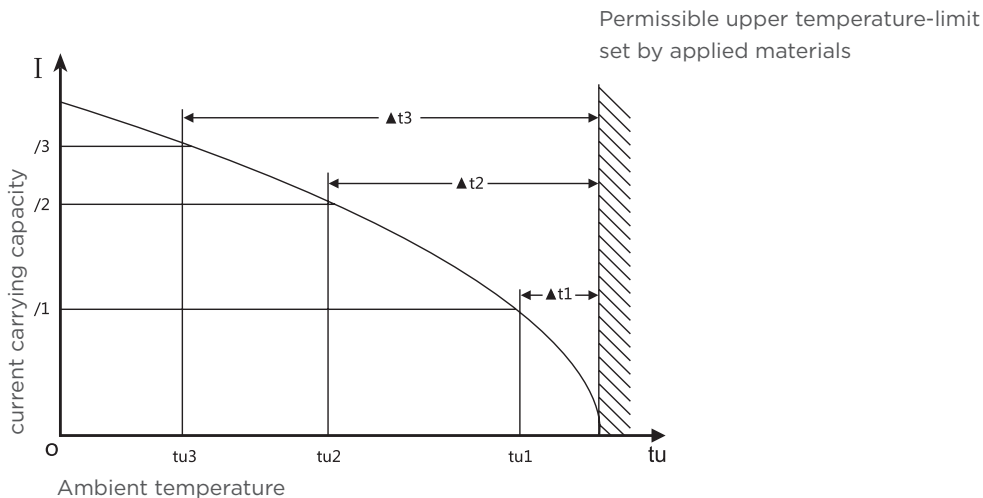
CURRENT CARRYING CAPACITY

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.



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.

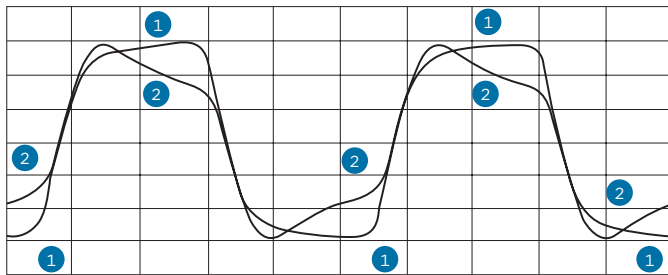
Extract from IEC 60 947-1/EN 60 947, Table 4

The torque according to IEC, EN

| Thread Type | Head screw with slot | | |
|-------------|----------------------|-------------------------|------------------|
| | 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 |

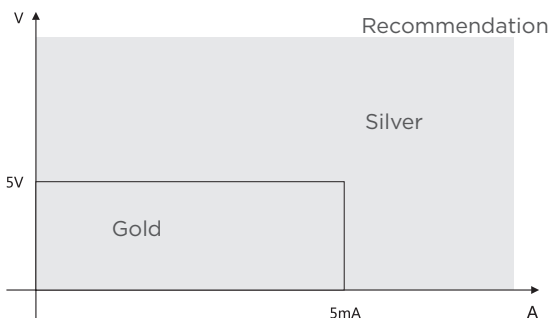
LOW CURRENTS AND VOLTAGES

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 artificially 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 artificial ageing



Left is a table derived from actual experiences

Selection guide

TECHNICAL INFORMATION OF INSERTS

| Insert | Type | Poles | Current | Voltage | Terminal | Contacts | Shells |
|--------|---------|--------|---------|---------|--|--|--------|
| HA | HA-003 | 3+PE | 10A | 250 V | screw | - | H3A |
| | HA-004 | 4+PE | 10A | 250V | screw | - | H3A |
| | HA-010 | 10+PE | 16A | 250V | screw crimp | CEM/F(16A) DEM/F(16A) | H10A |
| | HA-016 | 16+PE | 16A | 250V | | | H16A |
| | HA-032 | 32+PE | 16A | 250V | | | H32A |
| | HAS-003 | 003+PE | 10A | 400V | spring | - | H3A |
| | HAS-004 | 004+PE | 10A | 400V | spring | - | H3A |
| HD | HD-007 | 7+PE | 10A | 250V | crimp | CDM/F(10A) DDM/F(10A) CJM/F(10A) | H3A |
| | HD-008 | 8 | 10A | 50V | | | H3A |
| | HD-015 | 15+PE | 10A | 250V | | | H10A |
| | HD-025 | 25+PE | 10A | 250V | | | H16A |
| | HD-040 | 40+PE | 10A | 250V | | | H16B |
| | HD-050 | 50+PE | 10A | 250V | | | H32A |
| | HD-064 | 64+PE | 10A | 250V | | | H24B |
| | HD-080 | 80+PE | 10A | 250V | | | H32B |
| | HD-128 | 128+PE | 10A | 250V | | | H48B |
| HDD | HDD-016 | 16+PE | 10A | 250V | crimp | CDM/F(10A) DDM/F(10A) CJM/F(10A) | H6B |
| | HDD-024 | 24+PE | 10A | 250V | | | H6B |
| | HDD-042 | 42+PE | 10A | 250V | | | H10B |
| | HDD-072 | 72+PE | 10A | 250V | | | H16B |
| | HDD-108 | 108+PE | 10A | 250V | | | H24B |
| | HDD-144 | 144+PE | 10A | 250V | | | H32B |
| | HDD-216 | 216+PE | 10A | 250V | | | H48B |
| HE | HE-006 | 6+PE | 16A | 500V | screw crimp spring double spring | CEM/F(16A) DEM/F(16A) | H6B |
| | HE-010 | 10+PE | 16A | 500V | | | H10B |
| | HE-016 | 16+PE | 16A | 500V | | | H16B |
| | HE-024 | 24+PE | 16A | 500V | | | H24B |
| | HE-032 | 32+PE | 16A | 500V | | | H32B |
| | HE-048 | 48+PE | 16A | 500V | | | H48B |
| HEE | HEE-010 | 10+PE | 16A | 500V | crimp | CEM/F(16A) DEM/F(16A) | H6B |
| | HEE-018 | 18+PE | 16A | 500V | | | H10B |
| | HEE-032 | 32+PE | 16A | 500V | | | H16B |
| | HEE-046 | 46+PE | 16A | 500V | | | H24B |
| | HEE-064 | 64+PE | 16A | 500V | | | H32B |
| | HEE-092 | 92+PE | 16A | 500V | | | H48B |
| | HEE-015 | 14+PE | 16A | 200V | | CSF(16A) | - |

Selection guide

TECHNICAL INFORMATION OF INSERTS

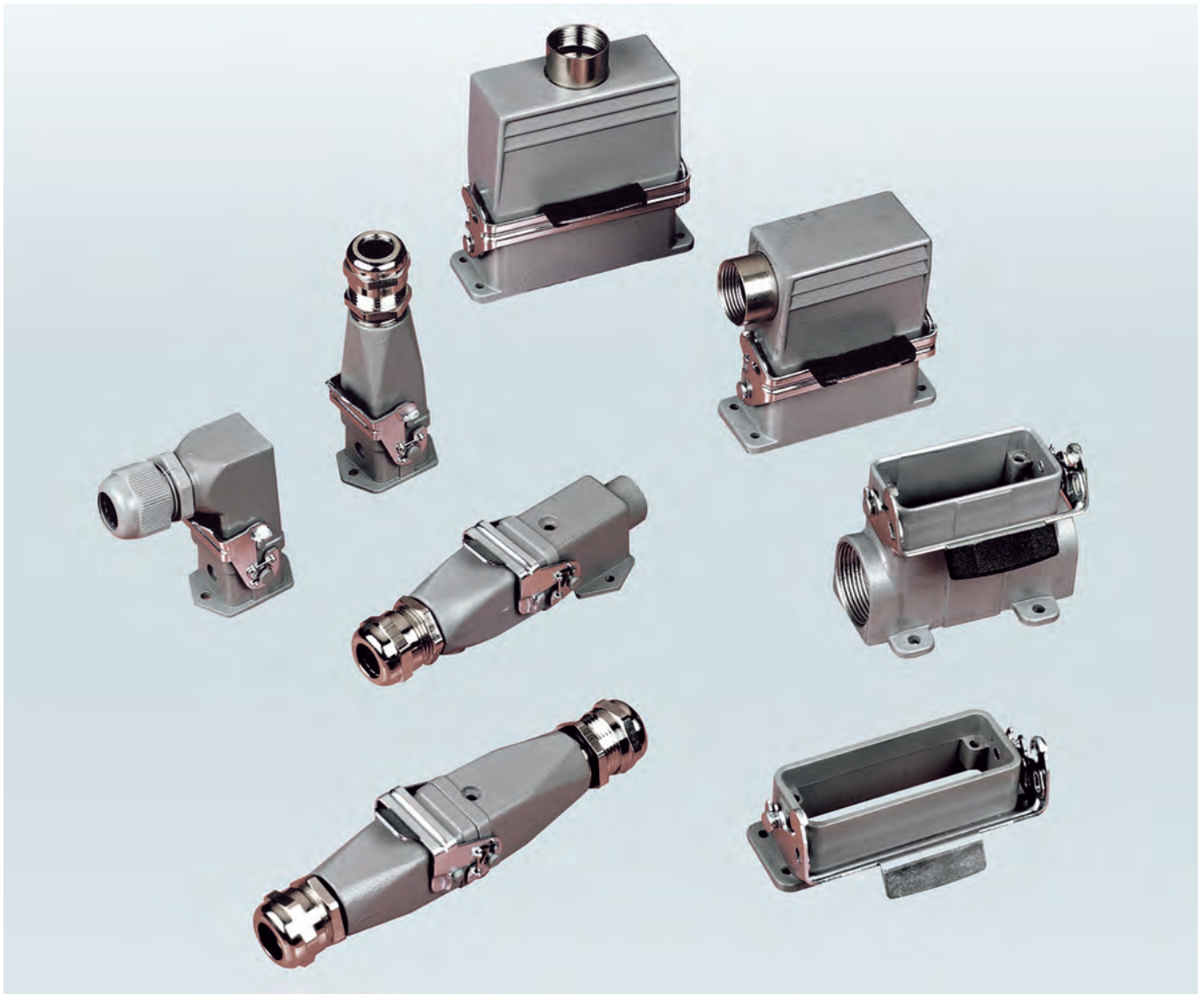
| Insert | Type | Poles | Current | Voltage | Terminal | Contacts | Shells |
|--------|-----------|---------|---------|-----------|--------------------------|--|--------|
| HEEE | HEEE-020 | 20+PE | 16A | 400V | crimp | CEM/F(16A) DEM/F(16A) | H6B |
| | HEEE-032 | 32+PE | 16A | 400V | | | H10B |
| | HEEE-040 | 40+PE | 16A | 500V | | | H16B |
| | HEEE-048 | 48+PE | 16A | 400V | | | H16B |
| | HEEE-064 | 64+PE | 16A | 500V | | | H24B |
| | HEEE-072 | 72+PE | 16A | 400V | | | 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 | HVE-003 | 3+PE+2 | 16A | 830V | screw crimp spring | CEM/F(16A) DEM/F(16A) | H10B |
| | HVE-006 | 6+PE+2 | 16A | 830V | | | H16B |
| | HVE-010 | 10+PE+2 | 16A | 830V | | | H24B |
| HSB | HSB-006 | 6+PE | 35A | 400/690V | screw | - | H16B |
| | HSB-012 | 12+PE | 35A | 400/690V | screw | - | H32B |
| HQ | HQ-005 | 5+PE | 16A | 400V | crimp | CEM/F(16A) DEM/F(16A) | H3A |
| | HQ-007 | 7+PE | 10A | 400V | | CDM/F(10A) DDM/F(10A) | H3A |
| | HQ-008 | 8+PE | 16A | 500V | | CEM/F(16A) DEM/F(16A) | H8A |
| | HQ-012 | 12+PE | 10A | 400V | | CDM/F(10A) DDM/F(10A) | H3A |
| | HQ-017 | 17+PE | 10A | 250V | | | H8A |
| | HQ4/2 | 4+PE+2 | 40A+10A | 600V+250V | | CDM/F(10A) DDM/F(10A) CMM/F(40A) DMM/F(40A) | H8A |
| HEAV | HEAV-006 | 6+PE | 16A | 500V | screw spring | - | H6B |
| | HEAV-010 | 10+PE | 16A | 500V | | - | H10B |
| | HEAV-016 | 16+PE | 16A | 500V | | - | H16B |
| | HEAV-024 | 24+PE | 16A | 500V | | - | H24B |
| HMN | 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-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/F(16A) DEM/F(16A) | - |
| | HMN-006P | 6 | 16A | 830V | crimp | | - |

Selection guide

TECHNICAL INFORMATION OF INSERTS

| Insert | Type | Poles | Current | Voltage | Terminal | Contacts | Shells |
|------------|----------|----------|--------------|--------------------------------|----------|--|--------|
| HMN | 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-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 | - | - | - | - | - | - |
| HK/ HWK | 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 |
| | 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



1. Specifications

DIN VDE 0110 Concerning clearance and creepage distances

DIN VDE 0627 Connectors and plug devices

2. Standards

DIN EN 60664-1

DIN EN 61 984

3. Approvals



RoHS

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 |

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; 250V/400V | |
| Insulation resistance | $\geq 10^{10}\Omega$ |
| Material | Polycarbonate or Polybutylece |
| 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

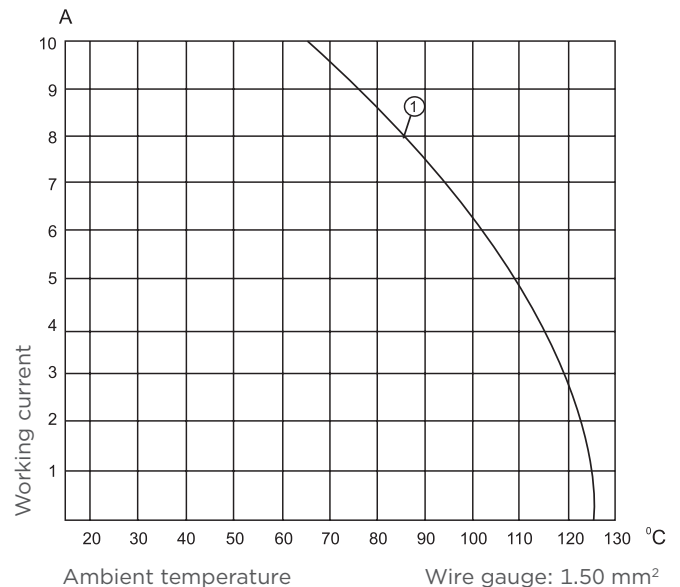
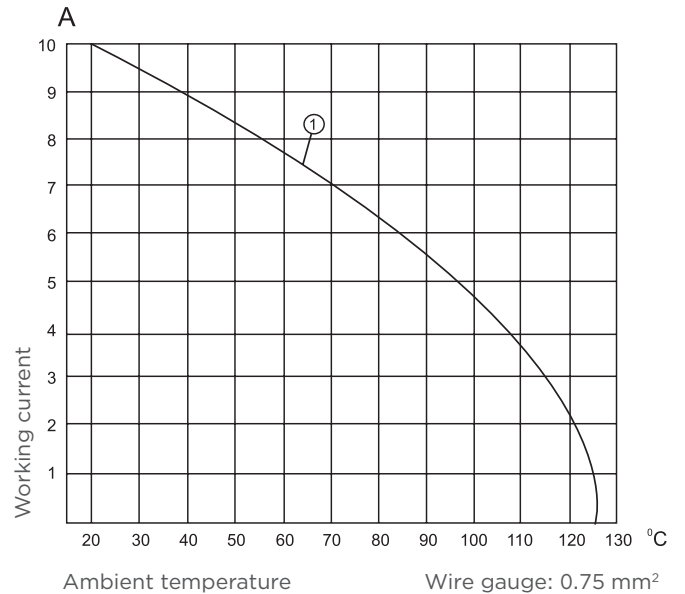
| | |
|--------------------------|-------------------------|
| Material | Copper alloy |
| Surface | Hard silver-plated |
| ..... | Hard gold-plated |
| Contact resistance | $\leq 3m\Omega$ |
| Terminal | Crimp terminal |
| ..... | Rolled terminal |
| - mm ² | 0.15-2.5mm ² |
| - AWG | 26-14 |

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 050..... | IP65 |

CURRENT CARRYING CAPACITY

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



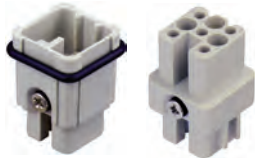
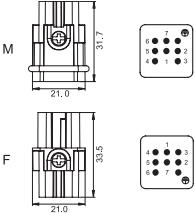

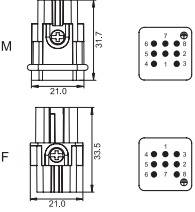
1 HD-007

HD-007/008 inserts


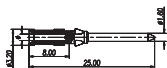

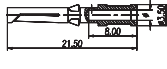
INSERTS FOR H3A HOOD/HOUSING

250V/50V 10A

7+ 
8

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

10A Contact

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

HA technical characteristics

SpecificationsDIN EN 60 664-1
DIN EN 61984
 Number of contacts3,4,10,16,32(2x16) + PE

INSERTS

Working current
 HA-3, HA-4..... 10A
 HA-10, HA-16, HA-32 16A
 Working voltage
 HA-3, HA-4..... 250V/400V
 HA-10, HA-16, HA-32 250V
 Test voltage urms
 HA-003, HAS-004, HA-10, HA-16, HA-32..... 4KV
 HAS-003..... 6KV
 HA-0042.5KV
 Pollution degree 2
 Insulation resistance $\geq 10^{10}\Omega$
 Material Polycarbonate or Polybutylece
 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

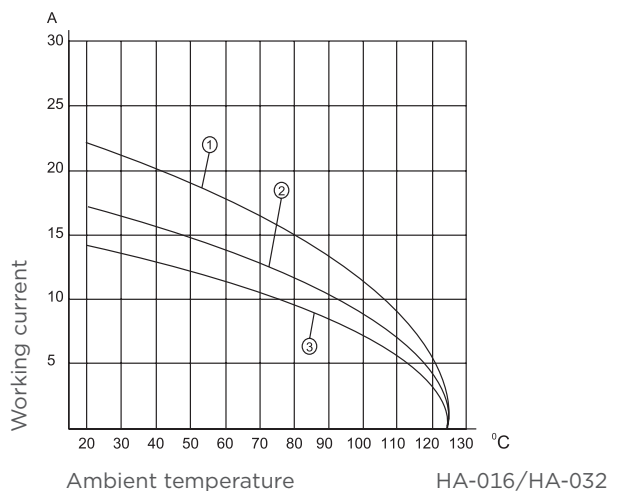
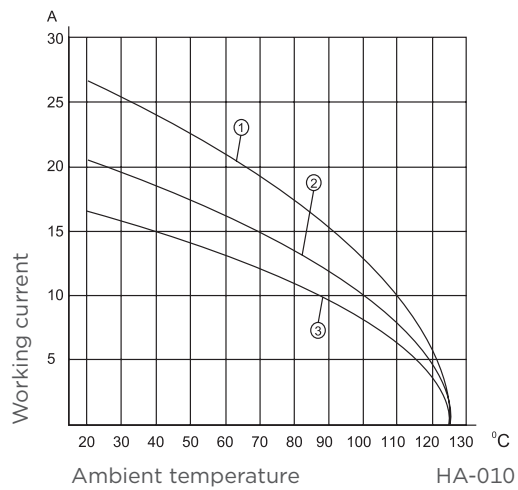
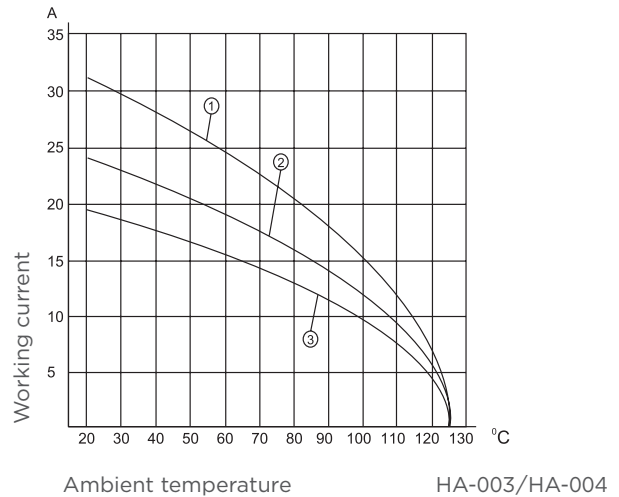
MaterialCopper alloy
 SurfaceHard silver-plated
Hard gold-xplated
 Contact resistance $\leq 1m\Omega$
 Terminal Screw terminal
 Crimp terminal
Spring terminal
 - mm²0.5-2.5mm² /0.14-4.0mm²/0.5-2.5mm²
 - AWG 20-14/26-14/20-14
 - Tightening/test torque 0.5Nm: HA-010, HA-016, HA-032
0.25Nm: HA-003, HA-004

HOODS, HOUSINGS

MaterialDie 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 050.....IP65

CURRENT CARRYING CAPACITY

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



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



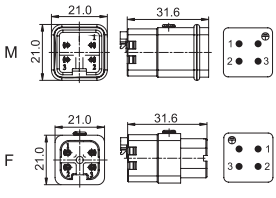

HA-003/004 inserts

INSERTS FOR H3A HOOD/HOUSING

250V/400V 10A

3+Ⓢ

4+Ⓢ

| Dimensions (mm) | Contact arrangement view from termination side | Part Number | | Type |
|---|---|---------------------|---------------------|-----------|
| | | Male insert | Female insert | |
| Screw terminal | | | | |
| 250V/10A  |  | T 2 01 003 2101-000 | | HA-003-M |
| | | | T 2 01 003 2201-000 | HA-003-F |
| Spring terminal | | | | |
| 400V/10A  |  | T 2 01 003 3101-000 | | HA-003-MS |
| | | | T 2 01 003 3201-000 | HA-003-FS |
| Screw terminal | | | | |
| 250V/10A  |  | T 2 01 004 2101-000 | | HA-004-M |
| | | | T 2 01 004 2201-000 | HA-004-F |
| Spring terminal | | | | |
| 400V/10A  |  | T 2 01 004 3101-000 | | HA-004-MS |
| | | | T 2 01 004 3201-000 | HA-004-FS |

HQ technical characteristics

| | |
|--------------------------|------------------|
| Specifications | DIN EN 60 664-1 |
| ..... | DIN EN 61 984 |
| Number of contacts | 5,7,8,12,17 + 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 | |
| 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 | $\geq 10^{10}\Omega$ |
| 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 | $\leq 1\text{m}\Omega$ |
| 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


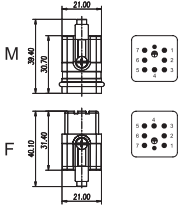

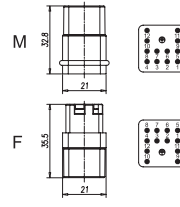
| | |
|--|------------------------------------|
| Material | Die cast aluminium |
| Surface | Powder-coated (RAL 7037) |
| Locking element | Stainless steel, steel-zinc plated |
| Temperature range | -40°C... +125°C |
| Degree of protection acc. to DIN40 050 | IP65 |

HQ-007/012 inserts


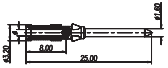

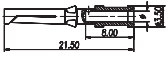
INSERTS FOR H3A HOOD/HOUSING

400V MAX. 10A

7+ 
12+ 

| Dimensions (mm) | Contact arrangement view from termination side | Part Number | | Type |
|--|--|---------------------|---------------------|----------|
| | | Male insert | Female insert | |
| Crimp terminal (Order crimp contacts separately) | | | | |
|  |  | T 2 08 007 2101-000 | | HQ-007-M |
| | | | T 2 08 007 2201-000 | HQ-007-F |
|  |  | T 2 08 012 2101-000 | | HQ-012-M |
| | | | T 2 08 012 2201-000 | HQ-012-F |

10A Contact


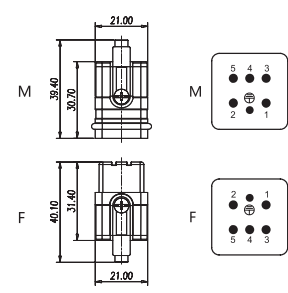
| Tech data Material: copper alloy Contact resistance: $\leq 3m\Omega$ Terminal: crimp connection CDM/Male  | 10A Male crimp contacts  | Wire gauge | | Strip- ping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|--|--|-----------------|-------|--------------------------|-------------------------------|---------------------|-----------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

HQ-005 inserts


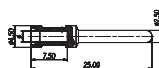

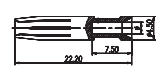
INSERTS FOR H3A HOOD/HOUSING

400V MAX. 16A

5+ (⊕)

| Dimensions (mm) | Contact arrangement view from termination side | Part Number | | Type |
|---|---|---------------------|---------------------|----------|
| | | Male insert | Female insert | |
| Crimp terminal (Order crimp contacts separately) | | | | |
|  |  | T 2 08 005 2101-000 | | HQ-005-M |
| | | | T 2 08 005 2201-000 | HQ-005-F |

16A Contact

| Tech data | 16A Male crimp contacts | Wire gauge | | Strip-ping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|--|---|---|---|-------------------|-------------------------------|---------------------|-----------------------------|---------------------|
| | | mm ² | AWG | | Type | Part Number | Type | Part Number |
| Material: copper alloy Contact resistance: ≤1mΩ Terminal: crimp connection CEM/Male  |  | 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 |
| | | 0.5 | 20 | 7.5 | CEM-0.5 | T 2 03 000 1005-000 | DEM-0.5 | T 2 03 001 1005-000 |
| | | 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  |  | 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 |
| 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 |
| 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 |

H3A metal hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | | Metr. | PG | Type | Part Number | |
|---|---|---|------|--|---|---------------------|
| Top entry | | | | | | |
|  |  | M20 | PG11 | H3A-MTG-PG11 H3A-MTG-M20 | T 1 32 903 0111-000 T 1 32 903 0120-000 | |
| Side entry | | | | | | |
|  |  | M20 | PG11 | H3A-MTS-PG11 H3A-MTS-M20 | T 1 31 903 0111-000 T 1 31 903 0120-000 | |
| Bulkhead mounting: Bottom entry | | | | | | |
|  |  | | | H3A-MAG | T 1 50 903 0000-000 | |
| Bulkhead mounting: Side entry | | | | | | |
|  |  | | | H3A-MAGS | T 1 54 903 0000-000 | |
| Surface mounting: Side entry | | | | | | |
|  |  | 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 covers for hoods (thermoplastic) | | | | | | |
|  | 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 (mm) | | Metr. | PG | Type | Part Number |
|---|---|---|------|---|---|
| Top entry | | | | | |
|  |  | M20 | PG11 | H3A-TG-PG11 H3A-TG-M20 | T 1 32 903 1111-000 T 1 32 903 1120-000 |
| Side entry | | | | | |
|  |  | M20 | PG11 | H3A-TS-PG11 H3A-TS-M20 | T 1 31 903 1111-000 T 1 31 903 1120-000 |
| Bulkhead mounting: Bottom entry | | | | | |
|  |  | | | H3A-AG | T 1 50 903 1100-000 |
| Bulkhead mounting: Side entry | | | | | |
|  |  | | | H3A-AGS | T 1 50 903 1111-000 |
| Surface mounting: Side entry | | | | | |
|  |  | 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 hood: | | | | | |
|  |  | 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) | | | | | |
|  | Note: For mounted male insert and hood |  | | H3A-KDTP | T 1 01 003 1100-000 |
| Protection covers for hoods | | | | | |
|  | 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 |
| White | Grey | | | | |
| 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


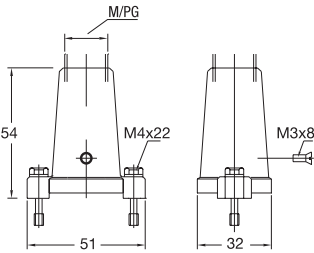

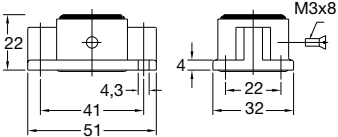

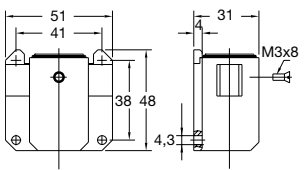
HIP: Pressure-tight, silver-grey

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 | Type | Part Number | | |
|---|--|--|---|---|------------------------------|-------------|
| Hood: Top entry | | | | | | |
|  |  <p>M/PG 54 M4x22 51 32 M3x8</p> | M16 | 11 | HIP HIP.3/4.ST0.1.11.G HIP.3/4.ST0.1.M16.G | 1-1102600-5 0-1106408-1 | |
| | | M16 | 11 | HIP-K HIP-K.3/4.ST0.1.11.G HIP-K.3/4.ST0.1.M16.G | 2-1102600-5 0-1106408-2 | |
| | | M20 | | HIP-K.3/4.ST0.1.M20.G | 0-1106408-3 | |
| | M16 | 11 | EMV-K EMV-K.3/4.ST0.1.11.G EMV-K.3/4.ST0.1.M16.G | 4-1102700-5 0-1106402-2 | | |
| | M20 | | EMV-K.3/4.ST0.1.M20.G | 0-1106402-3 | | |
| | Surface mounted housing: Bottom entry | | | | | |
| |  |  <p>22 4.3 41 51 M3x8 4 22 32</p> | | | HIP HIP.3/4.AG | 1-1102603-5 |
| | | | | | HIP-K HIP-K.3/4.AG | 2-1102603-5 |
| | | | | | EMV-K EMV-K.3/4.AG | 4-1102703-5 |
| Surface mounted housing: Bottom entry (by panel cut-out) | | | | | | |
|  |  <p>51 41 38 48 4.3 31 M3x8 4</p> | | | HIP HIP.3/4.SGF | 1-1102602-5 | |
| | | | | HIP-K HIP-K.3/4.SGF | 2-1102602-5 | |
| | | | | EMV-K EMV-K.3/4.SGF | 4-1102702-5 | |

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


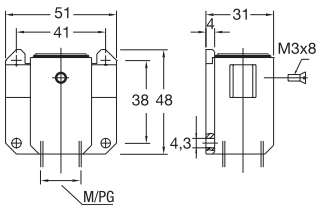

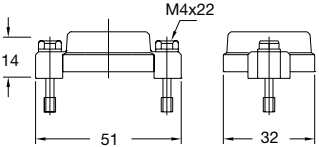
HIP: Pressure-tight, silver-grey

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 | Type | Part Number | |
|---|---|---|---|---|---|
| Surface mounted housing: Side entry | | | | | |
|  |  | M16 M20 | 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 | |
| | | | M16 M16 M20 | HIP-K HIP-K.3/4.SG.1.11.G HIP-K.3/4.SG.1.M16.G | 2-1102601-5 0-1106407-2 |
| | | | | EMV-K EMV-K.3/4.SG.1.11.G EMV-K.3/4.SG.1.M16.G EMV-K.3/4.SG.1.M20.G | 4-1102701-5 0-1106401-2 0-1106401-3 |
| | Protective covers for housings | | | | |
| |  |  | | HIP/EMV HIP/EMV.3/4.SKB | 3-1106200-5 |
| | | | | HIP-K/EMV-K 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

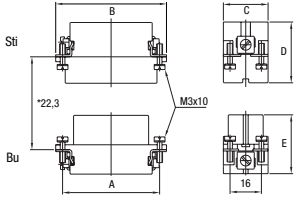
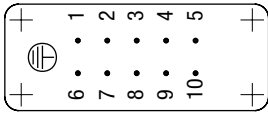
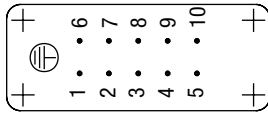
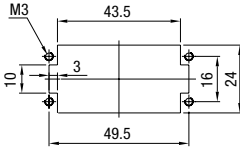
250V 16A

10+ 

| Description | | Type | Part Number | |
|---|---|---------------------|---------------------|---------------------|
| Male insert | Female insert | | Male insert | Female insert |
| Screw terminal | | | | |
|  |  | HA-010-M | T 2 01 010 2101-000 | |
| | | HA-010-F | | T 2 01 010 2201-000 |
| Spring Clamp terminal | | | | |
|  |  | HA.10.Sti.SC.B 1-10 | 7-1103414-1 | |
| | | HA.10.Bu.SC.B 1-10 | | 7-1103415-1 |
| Crimp terminal | | | | |
|  |  | HA.10.Sti.C.B 1-10 | 2-1103414-3 | |
| | | HA.10.Bu.C.B 1-10 | | 2-1103415-3 |


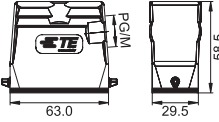

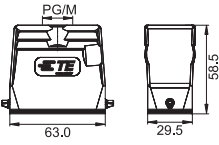
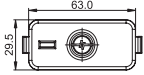
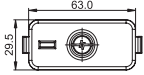
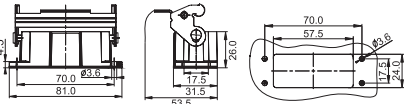


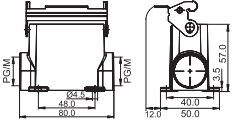

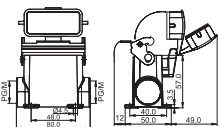

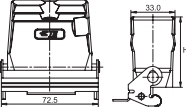
| Dimensions | A | B | C | D | E |
|------------|------|----|----|----|----|
| mm | 49.5 | 57 | 23 | 31 | 28 |

Suitable crimp contacts and crimping tools: see page 48

| Dimensions (mm) | Contact arrangement | | Panel cut-out |
|---|---|--|---|
| | Male insert | Female insert | |
|  |  |  |  |

H10A metal hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | | Metr. | PG | Type | Part Number | | | | | | |
|---|--|--|------------------------------|--|--|------|------|---|--------------|---|---|
| Hood: Side entry | | | | | | | | | | | |
|  |  | 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 | | | | | | | | | | | |
|  |  | 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 for hoods | | | | | | | | | | | |
|  |  | With plastic rope | | H10A-KDT | T 1 01 910 1101-000 T 1 01 910 1201-000 | | | | | | |
| Bulkhead mounted | | | | | | | | | | | |
|  |  | | | 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: Side entry | | | | | | | | | | | |
|  |  | 1 Side entry M20 M25 2 Side entry 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 | | | | | | |
|  |  | 1 Side entry M20 M25 2 Side entry 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 | 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 hood | | | | | | | | | | | |
|  | <table border="1" data-bbox="331 1921 550 2018"> <tr> <td>Construction</td> <td>H</td> </tr> <tr> <td>Low</td> <td>52.6</td> </tr> <tr> <td>High</td> <td>66.6</td> </tr> </table>  | Construction | H | Low | 52.6 | High | 66.6 | Low construction High construction M20 M25 M25 | PG16 PG21 | 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 |
| Construction | H | | | | | | | | | | |
| Low | 52.6 | | | | | | | | | | |
| High | 66.6 | | | | | | | | | | |

HA.16 contact inserts

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

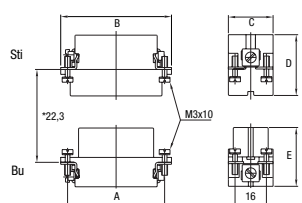
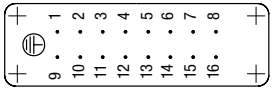
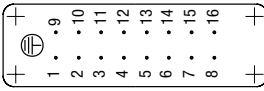
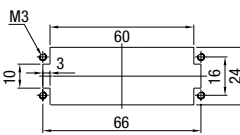
250V 16A

16+ 

| Description | | Type | Part Number | |
|---|---|---------------------|---------------------|---------------------|
| Male insert | Female insert | | Male insert | Female insert |
| Screw terminal | | | | |
|  |  | HA-016-M | T 2 01 016 2101-000 | |
| | | HA-016-F | | T 2 01 016 2201-000 |
| Spring Clamp terminal | | | | |
|  |  | HA.16.Sti.SC.B 1-16 | 7-1103416-1 | |
| | | HA.16.Bu.SC.B 1-16 | | 7-1103417-1 |
| Crimp terminal | | | | |
|  |  | HA-016-MC | T 2 01 016 4101-000 | |
| | | HA-016-FC | | T 2 01 016 4201-000 |



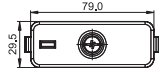




| Dimensions | A | B | C | D | E |
|------------|----|----|----|----|----|
| mm | 66 | 73 | 23 | 31 | 28 |

Suitable crimp contacts and crimping tools: see page 48

| Dimensions (mm) | Contact arrangement | | Panel cut-out |
|---|---|--|---|
| | Male insert | Female insert | |
|  |  |  |  |

H16A metal hoods/housings

POWDER-COATED, RAL 7037

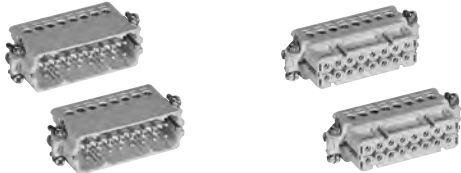

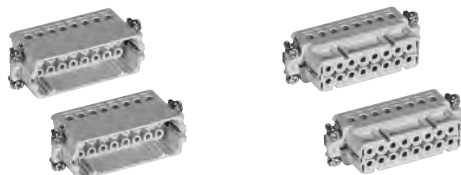
| Dimensions (mm) | | Metr. | PG | Type | Part Number | | | | | | |
|---|--|--------------|-------------------|--|--|------|------|-------------------|--------------|---|---|
| Hood: Side entry | | | | | | | | | | | |
|  | Low construction | M20 M25 | PG16 PG21 | H16A-TS-PG16 H16A-TS-PG21 H16A-TS-M20 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 | | | | | | |
| | High construction | | | | | | | | | | |
|  | Low 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 | | | | | | |
| | High construction | | | | | | | | | | |
| Protection covers for hoods | | | | | | | | | | | |
|  | | | with plastic rope | H16A-KDT | T 1 01 916 1101-000 T 1 01 916 1201-000 | | | | | | |
| Bulkhead mounted | | | | | | | | | | | |
|  | Without protection cover | | | 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 | | | | | | | | | | | |
|  | Without protection cover | M20 M25 | 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 | | | | | | |
| | With protection cover | M20 M25 | 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 hood | | | | | | | | | | | |
|  |  <table border="1" data-bbox="566 1881 790 1982"> <tr> <td>Construction</td> <td>H</td> </tr> <tr> <td>Low</td> <td>66.6</td> </tr> <tr> <td>High</td> <td>80.6</td> </tr> </table> | Construction | H | Low | 66.6 | High | 80.6 | M20 M25 M25 | 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 |
| Construction | H | | | | | | | | | | |
| Low | 66.6 | | | | | | | | | | |
| High | 80.6 | | | | | | | | | | |

HA.32 contact inserts

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

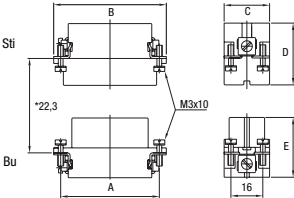
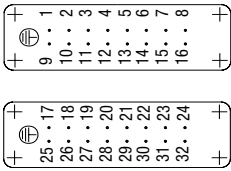
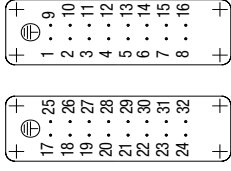
250V 16A

(2x16) 32+⊕

| Description | | Type | 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 | |
| | | 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 | | | | |
|  | | HA.16.Sti.SC.B 1-16 HA.16.Sti.SC.B 17-32 | 7-1103416-1 7-1103416-7 | |
| | | HA.16.Bu.SC.B 1-16 HA.16.Bu.SC.B 17-32 | | 7-1103417-1 7-1103417-7 |
| Crimp terminal | | | | |
|  | | HA-016-MC(1-16) HA-016-MC(17-32) | T 2 01 016 4101-000 T 2 01 032 4101-000 | |
| | | HA-016-FC(1-16) HA-016-FC(17-32) | | T 2 01 016 4201-000 T 2 01 032 4201-000 |


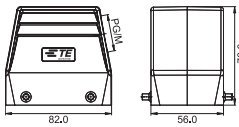

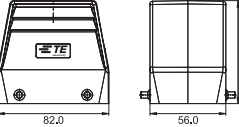

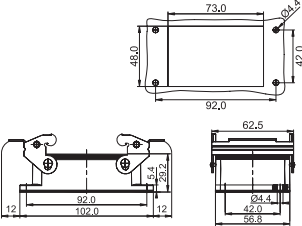

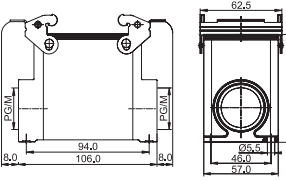
| Dimensions | A | B | C | D | E |
|------------|----|----|----|----|----|
| mm | 66 | 73 | 23 | 31 | 28 |

Suitable crimp contacts and crimping tools: see page 48

| Dimensions (mm) | Contact arrangement | |
|---|---|---|
| | Male insert | Female insert |
|  |  |  |

H32A metal hoods/housings

POWDER-COATED, RAL 7037

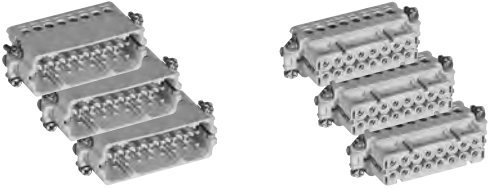
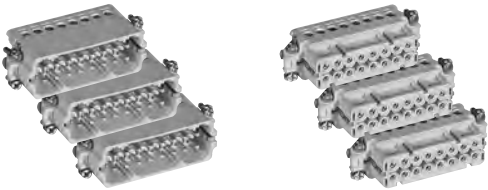
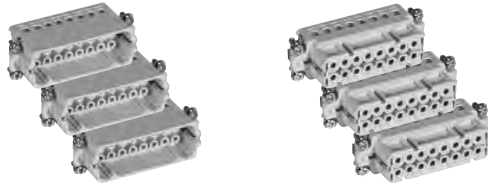
| Dimensions (mm) | Metr. | PG | Type | Part Number |
|---|--|----------------------------------|--|--|
| Hood: Side entry | | | | |
|   | M25 M32 M40 | PG21 PG29 PG36 | H32A-TS-PG21 H32A-TS-PG29 H32A-TS-PG36 H32A-TS-M25 H32A-TS-M32 H32A-TS-M40 | T 1 31 932 0121-000 T 1 31 932 0129-000 T 1 31 932 0136-000 T 1 31 932 0125-000 T 1 31 932 0132-000 T 1 31 932 0140-000 |
| Hood: Top entry | | | | |
|   | 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 mounted | | | | |
|   | | | H32A-AG | T 1 41 932 0000-000 |
| Surface mounted: Side entry | | | | |
|   | 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 |

HA.48 contact inserts

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

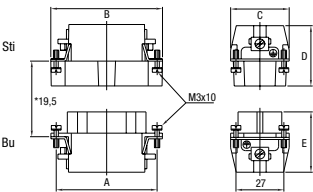
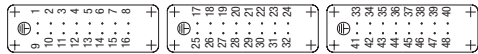
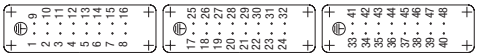
250V 16A

(3x16) 48+ Ⓢ

| Description | | Type | Part Number | |
|---|---------------|---|---|---|
| Male insert | Female insert | | Male insert | Female insert |
| Screw terminal | | | | |
|  | | HA.16.Sti.S.B 1-16 HA.16.Sti.S.B 17-32 HA.16.Sti.S.B 33-48 | 1-1103416-1 1-1103416-7 1-1103416-8 | |
| | | HA.16.Bu.S.B 1-16 HA.16.Bu.S.B 17-32 HA.16.Bu.S.B 33-48 | | 1-1103417-1 1-1103417-7 1-1103417-8 |
| Spring Clamp terminal | | | | |
|  | | HA.16.Sti.SC.B 1-16 HA.16.Sti.SC.B 17-32 HA.16.Sti.SC.B 33-48 | 7-1103416-1 7-1103416-7 7-1103416-8 | |
| | | HA.16.Bu.SC.B 1-16 HA.16.Bu.SC.B 17-32 HA.16.Bu.SC.B 33-48 | | 7-1103417-1 7-1103417-7 7-1103417-8 |
| Crimp terminal | | | | |
|  | | HA.16.Sti.C.B 1-16 HA.16.Sti.C.B 17-32 HA.16.Sti.C.B 33-48 | 2-1103416-3 2-1103416-7 2-1103416-8 | |
| | | HA.16.Bu.C.B 1-16 HA.16.Bu.C.B 17-32 HA.16.Bu.C.B 33-48 | | 2-1103417-3 2-1103417-7 2-1103417-8 |

| Dimensions | A | B | C | D | E |
|------------|------|------|----|----|----|
| mm | 77.5 | 83.5 | 33 | 34 | 35 |

Suitable crimp contacts and crimping tools: see page 48


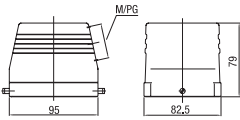

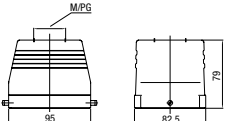

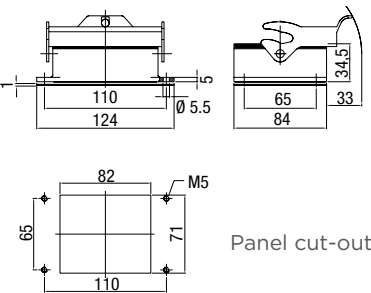

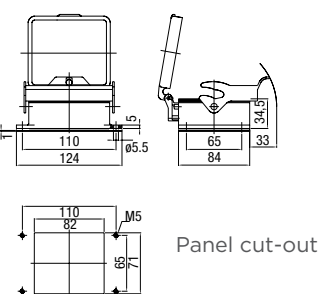
| Dimensions (mm) | Contact arrangement | |
|---|---|---|
| | Male insert | Female insert |
|  |  |  |

HA.48 housings

POWDER-COATED, SILVER-GREY

Side clip at housing bottom

IP 65


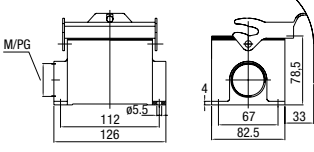

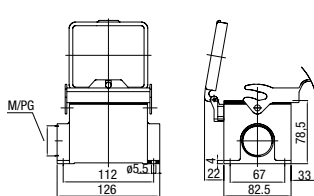
| Description | Metr. | PG | Type | Part Number |
|---|-------|----|---|----------------------------|
| Hood: Side entry, Standard construction | | | | |
|   | M32 | 29 | HA.48.STS-GR.1.29.G HA.48.STS-GR.1.M32.G | 1-1102172-7 0-1102877-1 |
| Hood: Top entry, Standard construction | | | | |
|   | M32 | 29 | HA.48.STO-GR.1.29.G HA.48.STO-GR.1.M32.G | 1-1102175-7 0-1102877-2 |
| Surface mounted housing: Bottom entry | | | | |
|   | | | HA.48.AG-LB | 1-1102176-2 |
| Surface mounted housing with covers: Bottom entry | | | | |
|   | | | HA.48.AGD-LB | 1-1102177-2 |

HA.48 housings

POWDER-COATED, SILVER-GREY

Side clip at housing bottom

IP 65

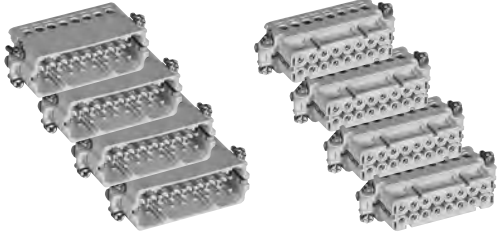
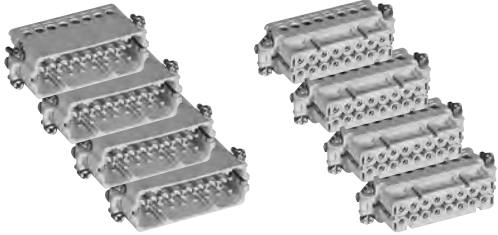
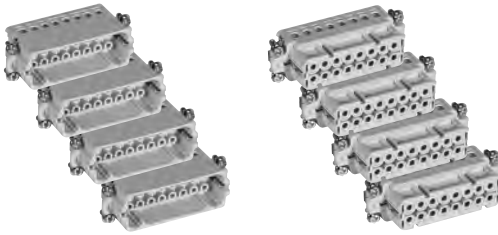
| Description | Metr. | PG | Type | Part Number |
|---|--------------|------------|--|--|
| Surface mounted housing: Side entry, Standard construction | | | | |
|   | | 29 2x29 | HA.48.SG-LB.1.29.Z HA.48.SG-LB.2.29.Z | 1-1102179-2 1-1102181-2 |
| Surface mounted housing: Side entry, Standard construction | | | | |
|   | 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 |

HA.64 contact inserts

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

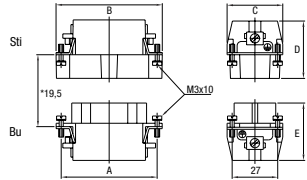
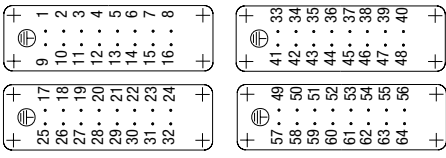
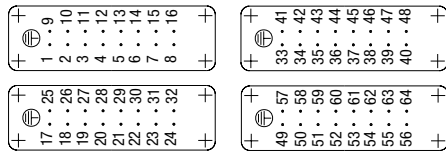
250V 16A

(4x16) 64+ Ⓢ

| Description | | Type | Part Number | |
|---|---------------|----------------------|-------------|---------------|
| Male insert | Female insert | | Male insert | Female insert |
| Screw terminal | | | | |
|  | | HA.16.Sti.S.B 1-16 | 1-1103416-1 | |
| | | HA.16.Sti.S.B 17-32 | 1-1103416-7 | |
| | | HA.16.Sti.S.B 33-48 | 1-1103416-8 | |
| | | HA.16.Sti.S.B 49-64 | 1-1103416-9 | |
| | | HA.16.Bu.S.B 1-16 | | 1-1103417-1 |
| | | HA.16.Bu.S.B 17-32 | | 1-1103417-7 |
| | | HA.16.Bu.S.B 33-48 | | 1-1103417-8 |
| | | HA.16.Bu.S.B 49-64 | | 1-1103417-9 |
| Spring Clamp terminal | | | | |
|  | | HA.16.Sti.SC.B 1-16 | 7-1103416-1 | |
| | | HA.16.Sti.SC.B 17-32 | 7-1103416-7 | |
| | | HA.16.Sti.SC.B 33-48 | 7-1103416-8 | |
| | | HA.16.Sti.SC.B 49-64 | 7-1103416-9 | |
| | | HA.16.Bu.SC.B 1-16 | | 7-1103417-1 |
| | | HA.16.Bu.SC.B 17-32 | | 7-1103417-7 |
| | | HA.16.Bu.SC.B 33-48 | | 7-1103417-8 |
| | | HA.16.Bu.SC.B 49-64 | | 7-1103417-9 |
| Crimp terminal | | | | |
|  | | HA.16.Sti.C.B 1-16 | 2-1103416-3 | |
| | | HA.16.Sti.C.B 17-32 | 2-1103416-7 | |
| | | HA.16.Sti.C.B 33-48 | 2-1103416-8 | |
| | | HA.16.Sti.C.B 49-64 | 2-1103416-9 | |
| | | HA.16.Bu.C.B 1-16 | | 2-1103417-3 |
| | | HA.16.Bu.C.B 17-32 | | 2-1103417-7 |
| | | HA.16.Bu.C.B 33-48 | | 2-1103417-8 |
| | | HA.16.Bu.C.B 49-64 | | 2-1103417-9 |

| Dimensions | A | B | C | D | E |
|------------|------|------|----|----|----|
| mm | 77.5 | 83.5 | 33 | 34 | 35 |

Suitable crimp contacts and crimping tools: see page 48


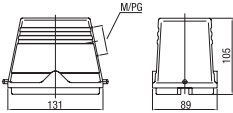

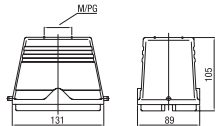

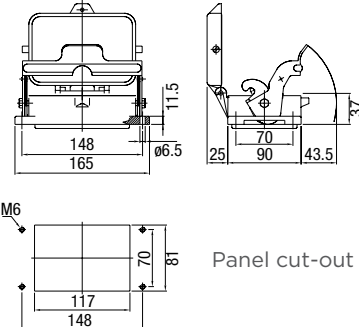

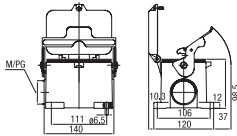
| Dimensions (mm) | Contact arrangement | |
|---|---|---|
| | Male insert | Female insert |
|  |  |  |

HA.64 housings

POWDER-COATED, SILVER-GREY

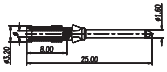


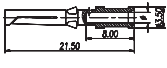
Side clip at housing bottom

IP 65





| Description | Metr. | PG | Type | Part Number |
|---|-------|------|----------------------|-------------|
| Hood: Side entry, Standard construction | | | | |
|   | M50 | 29 | HA.64.STS-GR.1.29.G | 1-1102002-7 |
| | | 36 | HA.64.STS-GR.1.36.G | 1-1102005-7 |
| | | 42 | HA.64.STS-GR.1.42.G | 1-1102008-7 |
| | | | HA.64.STS-GR.1.M50.G | 0-1106480-2 |
| Hood: Top entry, Standard construction | | | | |
|   | M50 | 29 | HA.64.STO-GR.1.29.G | 1-1102027-7 |
| | | 36 | HA.64.STO-GR.1.36.G | 1-1102030-7 |
| | | 42 | HA.64.STO-GR.1.42.G | 1-1102033-7 |
| | | | HA.64.STO-GR.1.M50.G | 0-1106480-1 |
| Surface mounted housing: Bottom entry, Standard construction | | | | |
|   | | | HA.64.AGD-LB | 1-1102009-2 |
| Surface mounted housing: Side entry, Standard construction | | | | |
|   | 2xM40 | 29 | HA.64.SGD-LB.1.29.Z | 1-1102011-2 |
| | | 2x29 | HA.64.SGD-LB.2.29.Z | 1-1102013-2 |
| | | 36 | HA.64.SGD-LB.1.36.Z | 1-1102015-2 |
| | | 2x36 | HA.64.SGD-LB.2.36.Z | 1-1102017-2 |
| | | | HA.64.SGD-LB.2.M40.Z | 0-1106479-1 |

Crimp contacts HN.D series

10A Contact




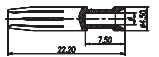
| Tech data Material: copper alloy Contact resistance: $\leq 3m\Omega$ Terminal: crimp connection CDM/Male | 10A Male crimp contacts  | Wire gauge | | Strip- ping length mm | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|-----------------|-------|--------------------------------|-------------------------------|---------------------|-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

Crimping tools HN.D series





| Description | | Type | Part Number |
|--|---|-----------------|---------------------|
| Crimp tool Wire range: 0.5-4.0mm ² Suitable for CDM/CDF and CEM/CEF contacts |  | CRIMPBOX-0.5/4 | T 3 10 000 0001-000 |
| Crimp tool Wire range: 0.14-4.0mm ² 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

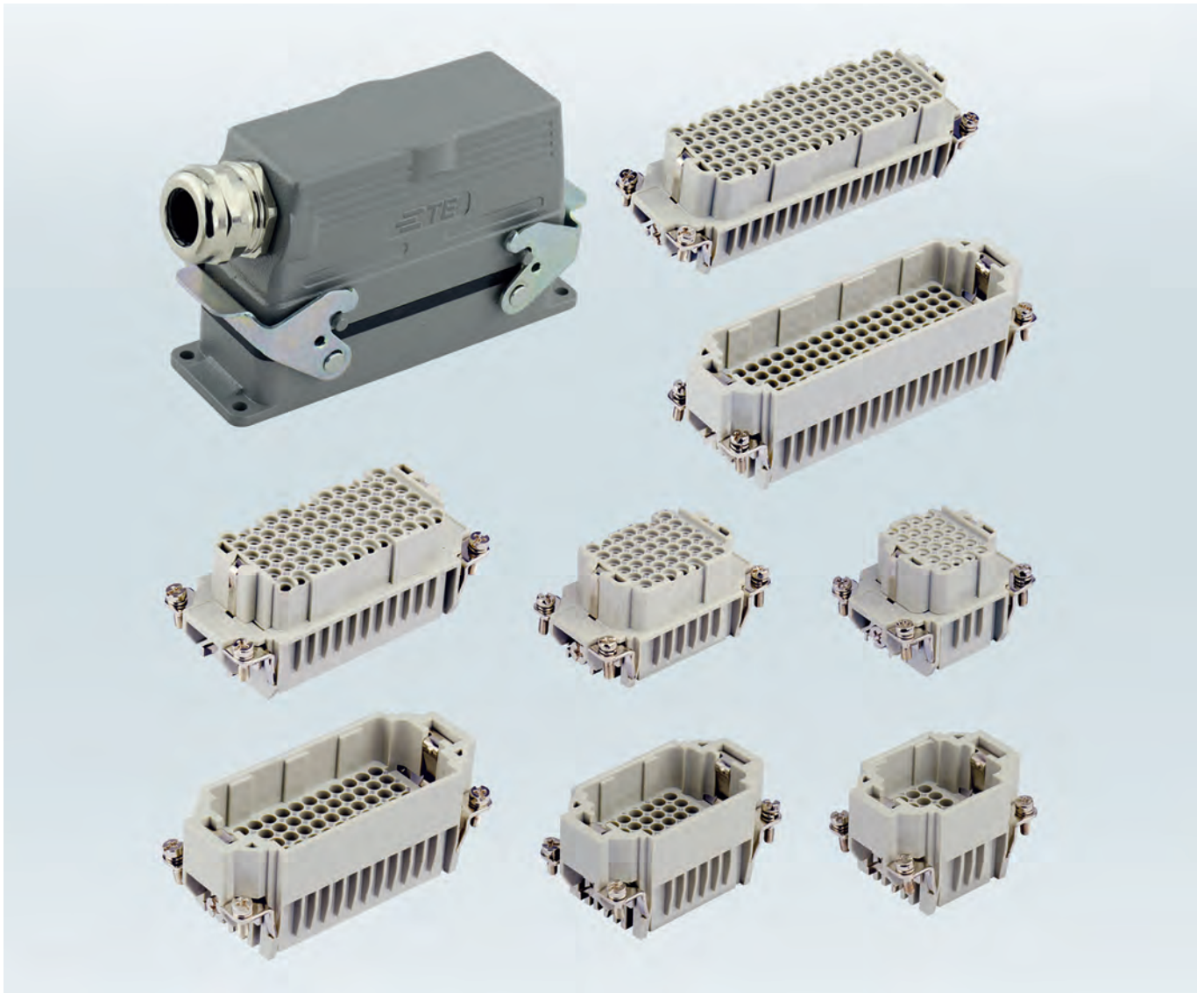
| Tech data Material: copper alloy Contact resistance: $\leq 1m\Omega$ Terminal: crimp connection CEM/Male | 16A Male crimp contacts  | Wire gauge | | Strip- ping length mm | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|---|---|--------------------------------|-------------------------------|---------------------|-----------------------------|---------------------|
| | | mm ² | AWG | | Type | Part Number | Type | Part Number |
|  | | 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 |
| | | 0.5 | 20 | 7.5 | CEM-0.5 | T 2 03 000 1005-000 | DEM-0.5 | T 2 03 001 1005-000 |
| | | 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 crimp contacts  | 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 |
| 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 |
| 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 |

Crimping tools HE/HA series

| Description | | Type | Part Number |
|--|---|-----------------|---------------------|
| Crimp tool Wire range: 0.5-4.0mm ² Suitable for CDM/CDF and CEM/CEF contacts |  | CRIMPBOX-0.5/4 | T 3 10 000 0001-000 |
| Crimp tool Wire range: 0.14-4.0mm ² 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



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 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 |

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 | 2 |
| Insulation resistance | $\geq 10^{10}\Omega$ |
| Material | Polycarbonate or Polybutylece |
| 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

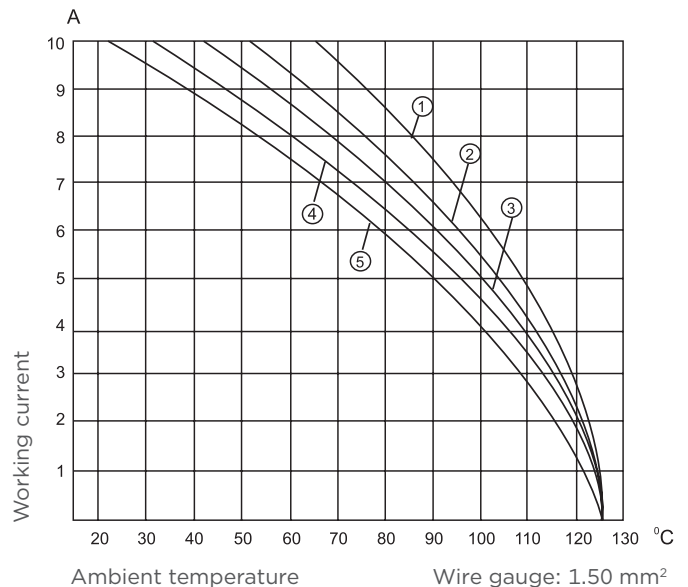
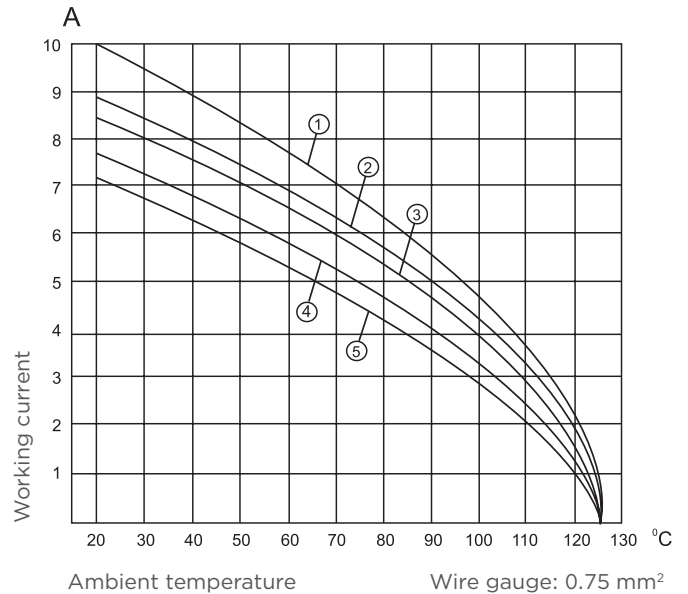
| | |
|--------------------------|-------------------------|
| Material | Copper alloy |
| Surface | Hard silver-plated |
| ..... | Hard gold-plated |
| Contact resistance | $\leq 3m\Omega$ |
| Terminal | Crimp terminal |
| ..... | Rolled terminal |
| - mm ² | 0.15-2.5mm ² |
| - AWG | 26-14 |

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 050..... | IP65 |

CURRENT CARRYING CAPACITY

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



- 1 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 |

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 | $\geq 10^{10}\Omega$ |
| 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

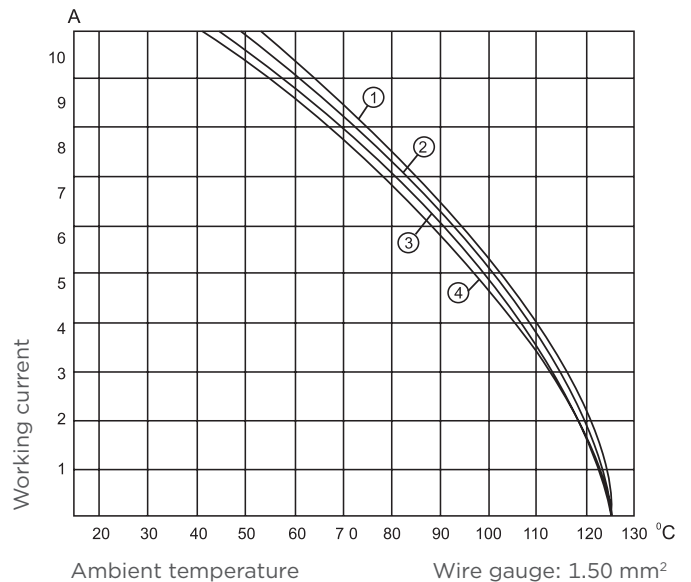
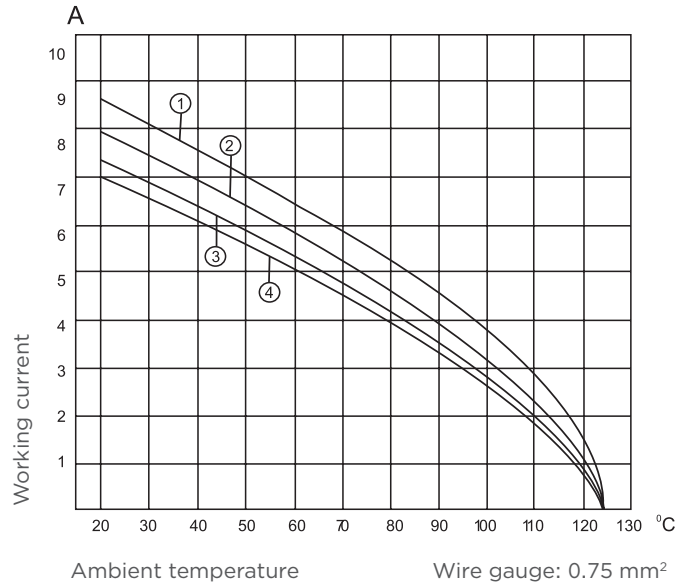
| | |
|--------------------------|-------------------------|
| Material | Copper alloy |
| Surface | Hard silver-plated |
| ..... | Hard gold-plated |
| Contact resistance | $\leq 3m\Omega$ |
| Terminal | Crimp terminal |
| ..... | Rolled terminal |
| - mm ² | 0.14-2.5mm ² |
| - AWG | 26-14 |

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 050..... | IP65 |

CURRENT CARRYING CAPACITY

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



- 1 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.

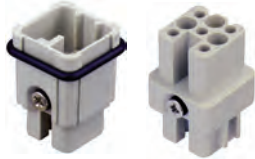
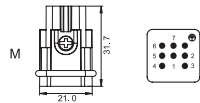
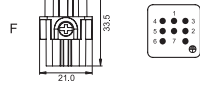

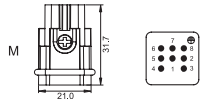
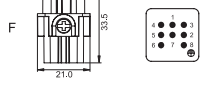
| | | Contact arrangement view from termination side | | | |
|--|--|--|-----------------|-------------|---------------|
| | | Working contact | Without contact | Male insert | Female insert |
| Series HDD 380V-Insulation group C | | | | | |
| | | | | | |
| 500V-Insulation group C | | | | | |
| | | | | | |
| Series HD 500V - Pollution degree 3 | | | | | |
| | | | | | |

HD-007/008 inserts


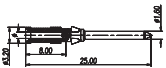

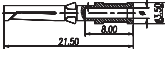
INSERTS FOR H3A HOOD/HOUSING

250V/50V 10A

7+ 
8

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

10A Contact

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

H3A metal hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | | Metr. | PG | Type | Part Number | |
|---|---|---|------|--|---|---------------------|
| Top entry | | | | | | |
|  |  | M20 | PG11 | H3A-MTG-PG11 H3A-MTG-M20 | T 1 32 903 0111-000 T 1 32 903 0120-000 | |
| Side entry | | | | | | |
|  |  | M20 | PG11 | H3A-MTS-PG11 H3A-MTS-M20 | T 1 31 903 0111-000 T 1 31 903 0120-000 | |
| Bulkhead mounting: Bottom entry | | | | | | |
|  |  | | | H3A-MAG | T 1 50 903 0000-000 | |
| Bulkhead mounting: Side entry | | | | | | |
|  |  | | | H3A-MAGS | T 1 54 903 0000-000 | |
| Surface mounting: Side entry | | | | | | |
|  |  | 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 covers for hoods (thermoplastic) | | | | | | |
|  | 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 (mm) | | Metr. | PG | Type | Part Number |
|---|---|---|------|---|---|
| Top entry | | | | | |
|  |  | M20 | PG11 | H3A-TG-PG11 H3A-TG-M20 | T 1 32 903 1111-000 T 1 32 903 1120-000 |
| Side entry | | | | | |
|  |  | M20 | PG11 | H3A-TS-PG11 H3A-TS-M20 | T 1 31 903 1111-000 T 1 31 903 1120-000 |
| Bulkhead mounting: Bottom entry | | | | | |
|  |  | | | H3A-AG | T 1 50 903 1100-000 |
| Bulkhead mounting: Side entry | | | | | |
|  |  | | | H3A-AGS | T 1 50 903 1111-000 |
| Surface mounting: Side entry | | | | | |
|  |  | 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 hood: | | | | | |
|  |  | 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) | | | | | |
|  | Note: For mounted male insert and hood |  | | H3A-KDTP | T 1 01 003 1100-000 |
| Protection covers for hoods | | | | | |
|  | 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 |
| White | Grey | | | | |
| 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


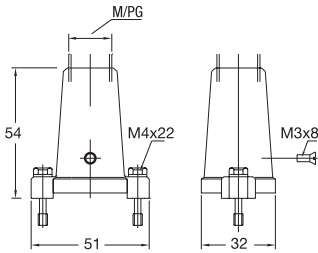

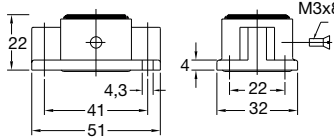

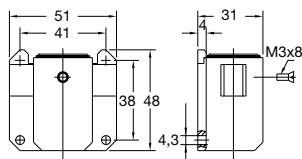
HIP: Pressure-tight, silver-grey

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 | Type | Part Number | | | |
|---|---|--|------|---|------------------------------|--|---|
| Hood: Top entry | | | | | | | |
|  |  <p>M/PG 54 M4x22 51 32 M3x8</p> | M16 | 11 | HIP HIP.3/4.ST0.1.11.G HIP.3/4.ST0.1.M16.G | 1-1102600-5 0-1106408-1 | | |
| | | | | 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 |
| | | | | | | 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 | | | | | | |
| |  |  <p>22 4.3 41 51 M3x8 4 22 32</p> | | | HIP HIP.3/4.AG |  |  | 1-1102603-5 |
| | | | | | HIP-K HIP-K.3/4.AG | 2-1102603-5 | |
| | | | | | EMV-K EMV-K.3/4.AG | 4-1102703-5 | |
| | Surface mounted housing: Bottom entry (by panel cut-out) | | | | | | |
| |  |  <p>51 41 38 48 4.3 31 M3x8 4</p> | | | HIP HIP.3/4.SGF | 1-1102602-5 | |
| HIP-K HIP-K.3/4.SGF | | | | | 2-1102602-5 | | |
| EMV-K EMV-K.3/4.SGF | | | | | 4-1102702-5 | | |

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


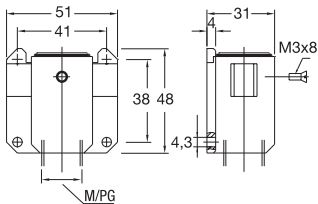

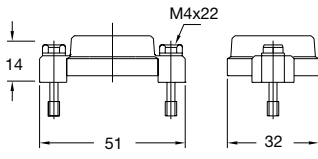
HIP: Pressure-tight, silver-grey

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


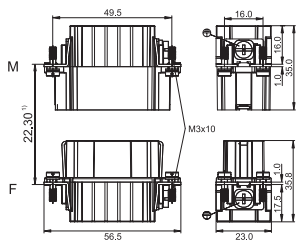
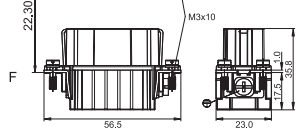
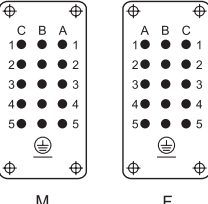
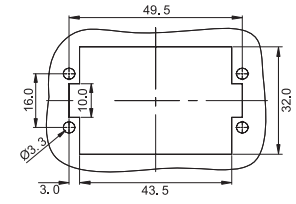
| Description | Metr. | PG | Type | Part Number | |
|---|---|---|---|---|---|
| Surface mounted housing: Side entry | | | | | |
|  |  | M16 M20 | HIP HIP.3/4.SG.1.11.G HIP.3/4.SG.1.M16.G HIP.3/4.SG.1.M20.G | 1-1102601-5 0-1106407-1 0-1106401-4 | |
| | | | M16 | HIP-K HIP-K.3/4.SG.1.11.G HIP-K.3/4.SG.1.M16.G | 2-1102601-5 0-1106407-2 |
| | | | | EMV-K EMV-K.3/4.SG.1.11.G EMV-K.3/4.SG.1.M16.G EMV-K.3/4.SG.1.M20.G | 4-1102701-5 0-1106401-2 0-1106401-3 |
| | Protective covers for housings | | | | |
| |  |  | | HIP/EMV HIP/EMV.3/4.SKB | 3-1106200-5 |
| | | | | HIP-K/EMV-K HIP-K/EMV-K.3/4.SKB | 4-1106200-5 |

HD-015 inserts


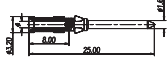

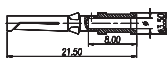
INSERTS FOR H10A HOOD/HOUSING

250V 10A

15+⊕ (machined contacts)

| Dimensions (mm) | | Type | Part Number | |
|--|--|----------|---------------------|---------------|
| | | | Male insert | Female insert |
| Crimp terminal (order crimp contacts separately) | | | | |
|  |  | HD-015-M | T 2 02 015 2101-000 | |
| |  | 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 | | | |
|  |  | | | |

10A Contact

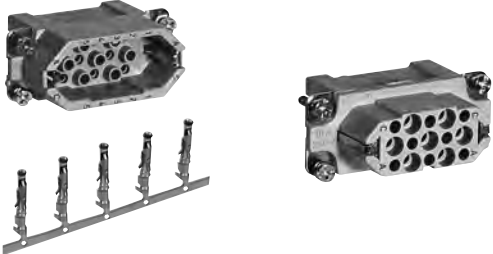
| Tech data | 10A Male crimp contacts | Wire gauge | | Strip-ping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|--|---|-----------------|-------|-------------------|-------------------------------|---------------------|-----------------------------|---------------------|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

HD-015 inserts

INSERTS FOR H10A HOOD/HOUSING

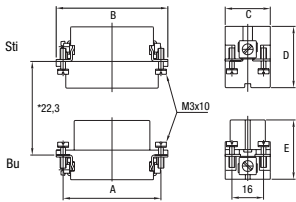
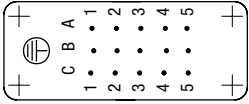
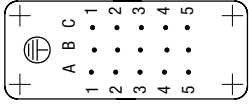
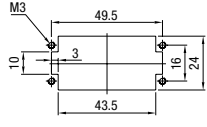
250V 10A

15+⊕ (stamped and formed contacts)

| Description | | Type | 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 |

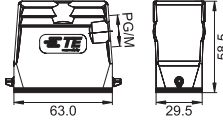
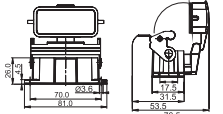

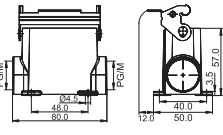

| Dimensions | A | B | C | D | E |
|------------|------|----|----|----|----|
| mm | 49.5 | 57 | 23 | 35 | 35 |

Suitable crimp contacts and crimping tools: see page 111

| Dimensions (mm) | Contact arrangement | | Panel cut-out |
|---|---|--|---|
| | Male insert | Female insert | |
|  |  |  |  |

H10A metal hoods/housings

POWDER-COATED, RAL 7037


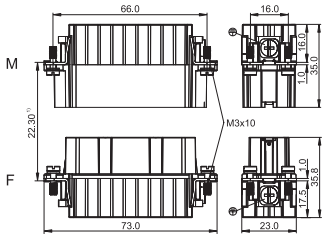

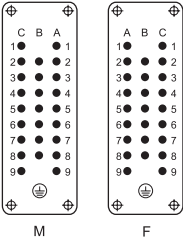
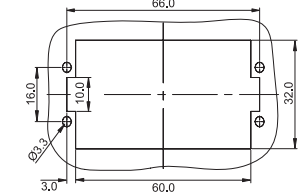
| Dimensions (mm) | | Metr. | PG | Type | Part Number | | | | | | | |
|---|--|---|------------------------------|--|--|------|-------|------|---|--------------|---|---|
| Hood: Side entry | | | | | | | | | | | | |
|  |  | M20 M25 | PG16 PG21 | H10A-TS-PG16 H10A-TS-PG21 H10A-TS-M20 H10A-TS-M25 | T 1 31 910 0116-000 T 1 31 910 0121-000 T 1 31 910 0120-000 T 1 31 910 0125-000 | | | | | | | |
| Hood: Top entry | | | | | | | | | | | | |
|  |  | 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 for hoods | | | | | | | | | | | | |
|  |  | With plastic rope | | H10A-KDT | T 1 01 910 1101-000 T 1 01 910 1201-000 | | | | | | | |
| Bulkhead mounted | | | | | | | | | | | | |
|  |  | | | 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: Side entry | | | | | | | | | | | | |
|  |  | 1 Side entry M20 M25 2 Side entry 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  | 1 Side entry M20 M25 2 Side entry 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 | 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 hood | | | | | | | | | | | | |
|  | <table border="1"> <tr> <td>Construction</td> <td>H</td> <td rowspan="3"></td> </tr> <tr> <td>Low</td> <td>52.6</td> </tr> <tr> <td>Hight</td> <td>66.6</td> </tr> </table> | Construction | H |  | Low | 52.6 | Hight | 66.6 | Low construction High construction M20 M25 M25 | PG16 PG21 | 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 |
| Construction | H |  | | | | | | | | | | |
| Low | 52.6 | | | | | | | | | | | |
| Hight | 66.6 | | | | | | | | | | | |

HD-025 inserts


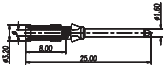


INSERTS FOR H16A HOOD/HOUSING

250V 10A

25+ (machined contacts)

| Dimensions (mm) | Type | Part Number | |
|--|--|-------------|---------------------|
| | | Male insert | Female insert |
| Crimp terminal (order crimp contacts separately) | | | |
|  |  | HD-025-M | T 2 02 025 2101-000 |
| |  | 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 | | |
|  |  | | |

10A Contact

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

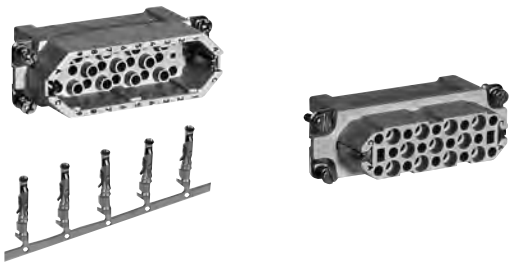


HD-025 inserts

INSERTS FOR H16A HOOD/HOUSING

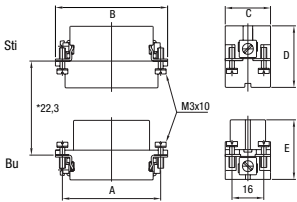
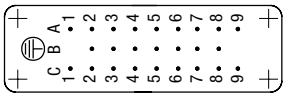
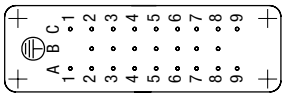
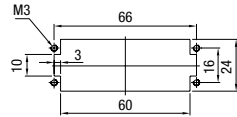
250V 10A

25+ (stamped and formed contacts)

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



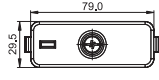



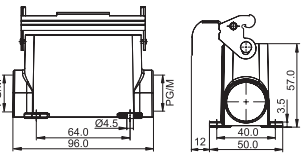

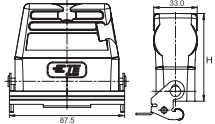
| Dimensions | A | B | C | D | E |
|------------|----|----|----|----|----|
| mm | 66 | 73 | 23 | 35 | 35 |

Suitable crimp contacts and crimping tools: see page 111

| Dimensions (mm) | Contact arrangement | | Panel cut-out |
|---|---|--|---|
| | Male insert | Female insert | |
|  |  |  |  |

H16A metal hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | | Metr. | PG | Type | Part Number |
|---|---|----------------------------|-------------------|--|--|
| Hood: Side entry | | | | | |
|  | Low construction | M20 M25 | PG16 PG21 | H16A-TS-PG16 | T 1 31 916 0116-000 |
| | High construction | | | H16A-TS-PG21 | T 1 31 916 0121-000 |
| | | | | H16A-TS-M20 | T 1 31 916 0120-000 |
| | | | | H16A-TS-M25 | T 1 31 916 0125-000 |
| | | M25 | PG21 | H16A-TSH-PG21 | T 1 33 916 0121-000 |
| | | | | H16A-TSH-M25 | T 1 33 916 0125-000 |
| Hood: Top entry | | | | | |
|  | Low construction | M20 M25 | PG16 PG21 | H16A-TG-PG16 | T 1 32 916 0116-000 |
| | High construction | | | H16A-TG-PG21 | T 1 32 916 0121-000 |
| | | | | H16A-TG-M20 | T 1 32 916 0120-000 |
| | | | | H16A-TG-M25 | T 1 32 916 0125-000 |
| | | M25 | PG21 | H16A-TGH-PG21 | T 1 34 916 0121-000 |
| | | | | H16A-TGH-M25 | T 1 34 916 0125-000 |
| Protection covers for hoods | | | | | |
| |  | | with plastic rope | H16A-KDT | T 1 01 916 1101-000 T 1 01 916 1201-000 |
| Bulkhead mounted | | | | | |
|  |  | | | 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 | | | | | |
|  |  | 1 Side entry M20 M25 | PG16 PG21 | H16A-SGRS-PG16 H16A-SGRS-PG21 H16A-SGRS-M20 H16A-SGRS-M25 | T 1 61 916 1116-000 T 1 61 916 1121-000 T 1 61 916 1120-000 T 1 61 916 1125-000 |
| | With protection cover | 2 Side entry M20 M25 | PG16 PG21 | H16A-SGRS-2PG16 H16A-SGRS-2PG21 H16A-SGRS-2M20 H16A-SGRS-2M25 | T 1 61 916 1216-000 T 1 61 916 1221-000 T 1 61 916 1220-000 T 1 61 916 1225-000 |
| | | 1 Side entry M20 M25 | PG16 PG21 | H16A-SDRMS-PG16 H16A-SDRMS-PG21 H16A-SDRMS-M20 H16A-SDRMS-M25 | T 1 62 916 1116-000 T 1 62 916 1121-000 T 1 62 916 1120-000 T 1 62 916 1125-000 |
| | | 2 Side entry M20 M25 | PG16 PG21 | H16A-SDRMS-2PG16 H16A-SDRMS-2PG21 H16A-SDRMS-2M20 H16A-SDRMS-2M25 | 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 hood | | | | | |
|  |  | Low construction | M20 M25 | PG16 | H16A-TBFS-PG16 H16A-TBFS-M20 H16A-TBFS-M25 |
| | | High construction | M25 | PG21 | H16A-TBFHS-PG21 H16A-TBFHS-M25 |


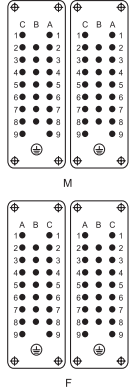


HD-050 inserts


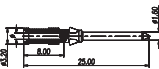


INSERTS FOR H32A HOOD/HOUSING

250V 10A

50 (2x25)+⊕ (Turning contacts)

| Dimensions (mm) | Contact arrangement view from termination side | Type | Part Number | |
|---|---|-----------------|---------------------|---------------------|
| | | | Male insert | Female insert |
| Crimp terminal (order crimp contacts separately) | | | | |
|  |  | HD-025-M(1-25) | T 2 02 025 2101-000 | |
| | | HD-025-M(26-50) | T 2 02 050 2101-000 | |
| | | HD-025-F(1-25) | | T 2 02 025 2201-000 |
| | | HD-025-F(26-50) | | T 2 02 050 2201-000 |

10A Contact

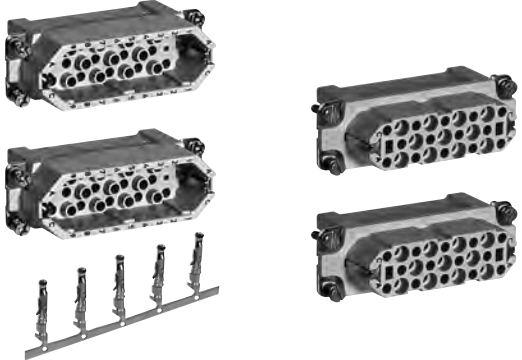
| Tech data Material: copper alloy Contact resistance: $\leq 3m\Omega$ Terminal: crimp connection CDM/Male  | 10A Male crimp contacts  | Wire gauge | | Strip- ping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|--|--|-----------------|-------|--------------------------|-------------------------------|---------------------|-----------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

HD-050 inserts

INSERTS FOR H32A HOOD/HOUSING

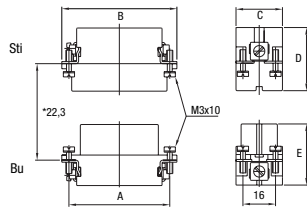
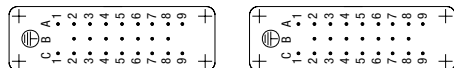
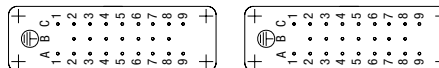
250V 10A

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

| Description | | Type | Part Number | |
|---|---------------|-------------|-------------|---------------|
| Male insert | Female insert | | Male insert | Female insert |
| Crimp terminal | | | | |
|  | | HD.25.Sti.C | 2-1103010-3 | |
| | | HD.25.Bu.C | | 2-1103011-3 |


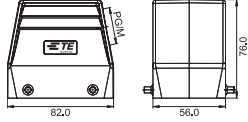

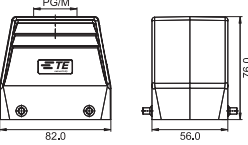

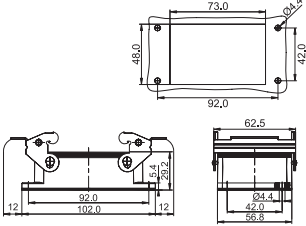

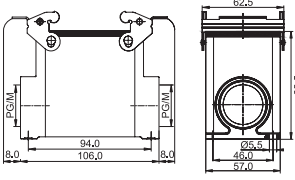
| Dimensions | A | B | C | D | E |
|------------|----|----|----|----|----|
| mm | 66 | 73 | 23 | 35 | 35 |

Suitable crimp contacts and crimping tools: see page 111

| Dimensions (mm) | Contact arrangement | |
|---|---|---|
| | Male insert | Female insert |
|  |  |  |

H32A metal hoods/housings

POWDER-COATED, RAL 7037


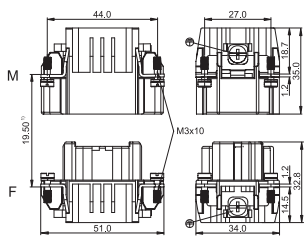
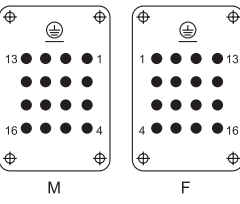
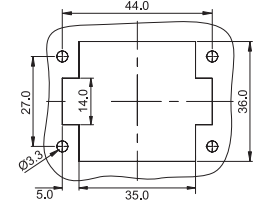
| Dimensions (mm) | Metr. | PG | Type | Part Number |
|---|--|----------------------------------|--|--|
| Hood: Side entry | | | | |
|   | M25 M32 M40 | PG21 PG29 PG36 | H32A-TS-PG21 H32A-TS-PG29 H32A-TS-PG36 H32A-TS-M25 H32A-TS-M32 H32A-TS-M40 | T 1 31 932 0121-000 T 1 31 932 0129-000 T 1 31 932 0136-000 T 1 31 932 0125-000 T 1 31 932 0132-000 T 1 31 932 0140-000 |
| Hood: Top entry | | | | |
|   | 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 mounted | | | | |
|   | | | H32A-AG | T 1 41 932 0000-000 |
| Surface mounted: Side entry | | | | |
|   | 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


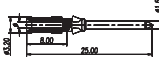

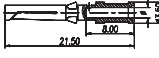
INSERTS FOR H6B HOOD/HOUSING

250V 10A

16+⊕ (machined contacts)

| Dimensions (mm) | | Type | Part Number | |
|--|--|-----------|---------------------|---------------------|
| | | | Male insert | Female insert |
| Crimp terminal (order crimp contacts separately) | | | | |
|  |  | HDD-016-M | T 2 03 016 2101-000 | |
| | | 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 | | | |
|  |  | | | |

10A Contact

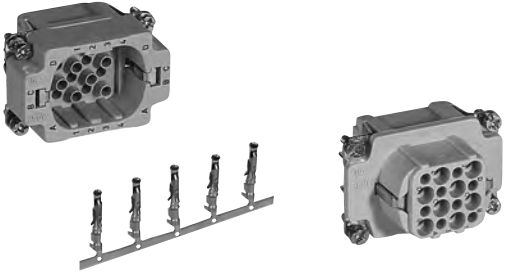
| Tech data | 10A Male crimp contacts | Wire gauge | | Strip-ping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|--|---|-----------------|-------|-------------------|-------------------------------|---------------------|-----------------------------|---------------------|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

HDD-016 inserts

INSERTS FOR H6B HOOD/HOUSING

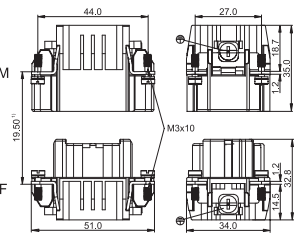
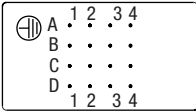
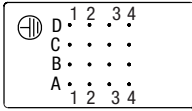
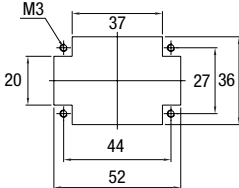
250V 10A

16+ ⊕ (stamped and formed contacts)

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

| Dimensions | A | B | C | D | E |
|------------|----|----|----|----|----|
| mm | 44 | 51 | 33 | 35 | 35 |

Suitable crimp contacts and crimping tools: see page 111

| Dimensions (mm) | Contact arrangement | | Panel cut-out |
|---|---|--|---|
| | Male insert | Female insert | |
|  |  |  |  |


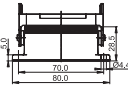

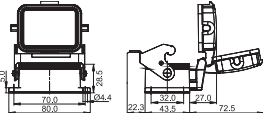

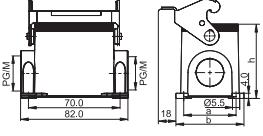

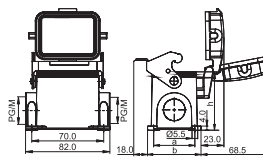
H6B with 1 lever on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | Metr. | PG | Type | Part Number | | | | | | |
|---|-------------------|--------------|---|---|------|------|------------|----------------------|--|--|
| Hood: Side entry | | | | | | | | | | |
|  <p>Low construction</p>  | 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 | | | | | | |
|  <p>High construction</p>  | 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 | | | | | | | | | | |
|  <p>Low construction</p>  | 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 | | | | | | |
|  <p>High construction</p>  | 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 | | | | | | | | | | |
|  <p>Low construction</p>  <table border="1" data-bbox="534 1377 750 1467"> <thead> <tr> <th>Construction</th> <th>H</th> </tr> </thead> <tbody> <tr> <td>Low</td> <td>62.5</td> </tr> <tr> <td>High</td> <td>74.5</td> </tr> </tbody> </table> <p>High construction</p> | Construction | H | Low | 62.5 | High | 74.5 | M20 M25 | 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 |
| Construction | H | | | | | | | | | |
| Low | 62.5 | | | | | | | | | |
| High | 74.5 | | | | | | | | | |
| Protection covers for hoods | | | | | | | | | | |
|  <p>71.4 60.0 60.0</p>  | | | H6B-KDTP | T 1 01 006 1400-000 | | | | | | |

H6B with 1 lever on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | Metr. | PG | Type | Part Number | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|--------------|--------------|--|--|-----|----|----|----|-------|----|----|----|--|------------------|--------------|-----|--------------|--|--|--------------|------------|-------------------|--------------|------------|--------------|--|--|--------------|------------|--|--|--|--------------|--|--|--|--|--|--------------|--|--|
| Bulkhead mounted | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  | | H6B-AGS | T 1 50 006 2000-000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | With protection cover  | | H6B-ADS | T 1 51 006 2100-000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Surface mounted: Side entry | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  <table border="1" data-bbox="347 1144 703 1234"> <thead> <tr> <th>Construction</th> <th>A</th> <th>B</th> <th>H</th> </tr> </thead> <tbody> <tr> <td>Low</td> <td>40</td> <td>52</td> <td>56</td> </tr> <tr> <td>Hight</td> <td>45</td> <td>57</td> <td>74</td> </tr> </tbody> </table> | Construction | A | B | H | Low | 40 | 52 | 56 | Hight | 45 | 57 | 74 | <table border="0"> <tr> <td rowspan="2">Low construction</td> <td>1 Side entry</td> <td>M20</td> <td rowspan="2">PG16 PG21</td> <td rowspan="2">H6B-SGRS-PG16 H6B-SGRS-PG21 H6B-SGRS-M20 H6B-SGRS-M25</td> <td rowspan="2">T 1 61 006 2116-000 T 1 61 006 2121-000 T 1 61 006 2120-000 T 1 61 006 2125-000</td> </tr> <tr> <td>2 Side entry</td> <td>M20 M25</td> </tr> <tr> <td rowspan="2">High construction</td> <td>1 Side entry</td> <td>M20 M25</td> <td rowspan="2">PG16 PG21</td> <td rowspan="2">H6B-SGRHS-2PG16 H6B-SGRHS-2PG21 H6B-SGRHS-2M20 H6B-SGRHS-2M25</td> <td rowspan="2">T 1 61 006 2216-000 T 1 61 006 2221-000 T 1 61 006 2220-000 T 1 61 006 2225-000</td> </tr> <tr> <td>2 Side entry</td> <td>M25 M32</td> </tr> <tr> <td colspan="2"></td> <td></td> <td>PG21 PG29</td> <td>H6B-SGRHS-PG21 H6B-SGRHS-PG29 H6B-SGRHS-M25 H6B-SGRHS-M32</td> <td>T 1 65 006 2121-000 T 1 65 006 2129-000 T 1 65 006 2125-000 T 1 65 006 2132-000</td> </tr> <tr> <td colspan="2"></td> <td></td> <td>PG21 PG29</td> <td>H6B-SGRHS-2PG21 H6B-SGRHS-2PG29 H6B-SGRHS-2M25 H6B-SGRHS-2M32</td> <td>T 1 65 006 2221-000 T 1 65 006 2229-000 T 1 65 006 2225-000 T 1 65 006 2232-000</td> </tr> </table> | Low construction | 1 Side entry | M20 | PG16 PG21 | H6B-SGRS-PG16 H6B-SGRS-PG21 H6B-SGRS-M20 H6B-SGRS-M25 | T 1 61 006 2116-000 T 1 61 006 2121-000 T 1 61 006 2120-000 T 1 61 006 2125-000 | 2 Side entry | M20 M25 | High construction | 1 Side entry | M20 M25 | PG16 PG21 | H6B-SGRHS-2PG16 H6B-SGRHS-2PG21 H6B-SGRHS-2M20 H6B-SGRHS-2M25 | T 1 61 006 2216-000 T 1 61 006 2221-000 T 1 61 006 2220-000 T 1 61 006 2225-000 | 2 Side entry | M25 M32 | | | | PG21 PG29 | H6B-SGRHS-PG21 H6B-SGRHS-PG29 H6B-SGRHS-M25 H6B-SGRHS-M32 | T 1 65 006 2121-000 T 1 65 006 2129-000 T 1 65 006 2125-000 T 1 65 006 2132-000 | | | | PG21 PG29 | H6B-SGRHS-2PG21 H6B-SGRHS-2PG29 H6B-SGRHS-2M25 H6B-SGRHS-2M32 | T 1 65 006 2221-000 T 1 65 006 2229-000 T 1 65 006 2225-000 T 1 65 006 2232-000 |
| Construction | A | B | H | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Low | 40 | 52 | 56 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hight | 45 | 57 | 74 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Low construction | 1 Side entry | M20 | PG16 PG21 | H6B-SGRS-PG16 H6B-SGRS-PG21 H6B-SGRS-M20 H6B-SGRS-M25 | T 1 61 006 2116-000 T 1 61 006 2121-000 T 1 61 006 2120-000 T 1 61 006 2125-000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 Side entry | M20 M25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| High construction | 1 Side entry | M20 M25 | PG16 PG21 | H6B-SGRHS-2PG16 H6B-SGRHS-2PG21 H6B-SGRHS-2M20 H6B-SGRHS-2M25 | T 1 61 006 2216-000 T 1 61 006 2221-000 T 1 61 006 2220-000 T 1 61 006 2225-000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 Side entry | M25 M32 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | PG21 PG29 | H6B-SGRHS-PG21 H6B-SGRHS-PG29 H6B-SGRHS-M25 H6B-SGRHS-M32 | T 1 65 006 2121-000 T 1 65 006 2129-000 T 1 65 006 2125-000 T 1 65 006 2132-000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | PG21 PG29 | H6B-SGRHS-2PG21 H6B-SGRHS-2PG29 H6B-SGRHS-2M25 H6B-SGRHS-2M32 | T 1 65 006 2221-000 T 1 65 006 2229-000 T 1 65 006 2225-000 T 1 65 006 2232-000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | With protection cover  <table border="1" data-bbox="347 1559 703 1648"> <thead> <tr> <th>Construction</th> <th>A</th> <th>B</th> <th>H</th> </tr> </thead> <tbody> <tr> <td>Low</td> <td>40</td> <td>52</td> <td>56</td> </tr> <tr> <td>Hight</td> <td>45</td> <td>57</td> <td>74</td> </tr> </tbody> </table> | Construction | A | B | H | Low | 40 | 52 | 56 | Hight | 45 | 57 | 74 | <table border="0"> <tr> <td rowspan="2">Low construction</td> <td>1 Side entry</td> <td>M20</td> <td rowspan="2">PG16 PG21</td> <td rowspan="2">H6B-SDRS-PG16 H6B-SDRS-PG21 H6B-SDRS-M20 H6B-SDRS-M25</td> <td rowspan="2">T 1 62 006 2116-000 T 1 62 006 2121-000 T 1 62 006 2120-000 T 1 62 006 2125-000</td> </tr> <tr> <td>2 Side entry</td> <td>M20 M25</td> </tr> <tr> <td rowspan="2">High construction</td> <td>1 Side entry</td> <td>M20 M25</td> <td rowspan="2">PG16 PG21</td> <td rowspan="2">H6B-SDRS-2PG16 H6B-SDRS-2PG21 H6B-SDRS-2M20 H6B-SDRS-2M25</td> <td rowspan="2">T 1 62 006 2216-000 T 1 62 006 2221-000 T 1 62 006 2220-000 T 1 62 006 2225-000</td> </tr> <tr> <td>2 Side entry</td> <td>M25 M32</td> </tr> <tr> <td colspan="2"></td> <td></td> <td>PG21 PG29</td> <td>H6B-SDRHS-PG21 H6B-SDRHS-PG29 H6B-SDRHS-M25 H6B-SDRHS-M32</td> <td>T 1 66 006 2121-000 T 1 66 006 2129-000 T 1 66 006 2125-000 T 1 66 006 2132-000</td> </tr> <tr> <td colspan="2"></td> <td></td> <td>PG21 PG29</td> <td>H6B-SDRHS-2PG21 H6B-SDRHS-2PG29 H6B-SDRHS-2M25 H6B-SDRHS-2M32</td> <td>T 1 66 006 2221-000 T 1 66 006 2229-000 T 1 66 006 2225-000 T 1 66 006 2232-000</td> </tr> </table> | Low construction | 1 Side entry | M20 | PG16 PG21 | H6B-SDRS-PG16 H6B-SDRS-PG21 H6B-SDRS-M20 H6B-SDRS-M25 | T 1 62 006 2116-000 T 1 62 006 2121-000 T 1 62 006 2120-000 T 1 62 006 2125-000 | 2 Side entry | M20 M25 | High construction | 1 Side entry | M20 M25 | PG16 PG21 | H6B-SDRS-2PG16 H6B-SDRS-2PG21 H6B-SDRS-2M20 H6B-SDRS-2M25 | T 1 62 006 2216-000 T 1 62 006 2221-000 T 1 62 006 2220-000 T 1 62 006 2225-000 | 2 Side entry | M25 M32 | | | | PG21 PG29 | H6B-SDRHS-PG21 H6B-SDRHS-PG29 H6B-SDRHS-M25 H6B-SDRHS-M32 | T 1 66 006 2121-000 T 1 66 006 2129-000 T 1 66 006 2125-000 T 1 66 006 2132-000 | | | | PG21 PG29 | H6B-SDRHS-2PG21 H6B-SDRHS-2PG29 H6B-SDRHS-2M25 H6B-SDRHS-2M32 | T 1 66 006 2221-000 T 1 66 006 2229-000 T 1 66 006 2225-000 T 1 66 006 2232-000 |
| Construction | A | B | H | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Low | 40 | 52 | 56 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hight | 45 | 57 | 74 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Low construction | 1 Side entry | M20 | PG16 PG21 | H6B-SDRS-PG16 H6B-SDRS-PG21 H6B-SDRS-M20 H6B-SDRS-M25 | T 1 62 006 2116-000 T 1 62 006 2121-000 T 1 62 006 2120-000 T 1 62 006 2125-000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 Side entry | M20 M25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| High construction | 1 Side entry | M20 M25 | PG16 PG21 | H6B-SDRS-2PG16 H6B-SDRS-2PG21 H6B-SDRS-2M20 H6B-SDRS-2M25 | T 1 62 006 2216-000 T 1 62 006 2221-000 T 1 62 006 2220-000 T 1 62 006 2225-000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 Side entry | M25 M32 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | PG21 PG29 | H6B-SDRHS-PG21 H6B-SDRHS-PG29 H6B-SDRHS-M25 H6B-SDRHS-M32 | T 1 66 006 2121-000 T 1 66 006 2129-000 T 1 66 006 2125-000 T 1 66 006 2132-000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | PG21 PG29 | H6B-SDRHS-2PG21 H6B-SDRHS-2PG29 H6B-SDRHS-2M25 H6B-SDRHS-2M32 | T 1 66 006 2221-000 T 1 66 006 2229-000 T 1 66 006 2225-000 T 1 66 006 2232-000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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


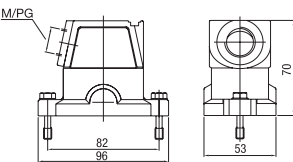

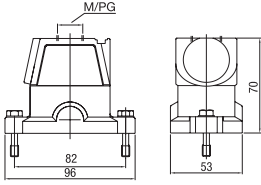

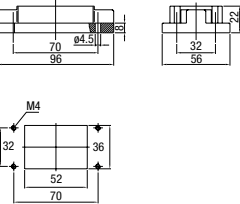

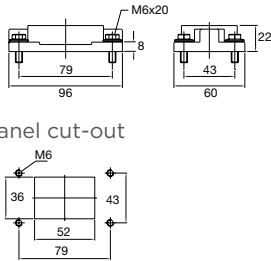
HIP: Pressure-tight, silver-grey

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


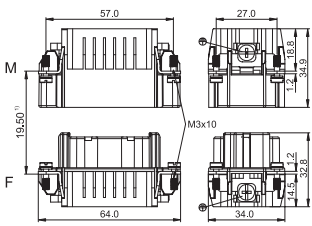
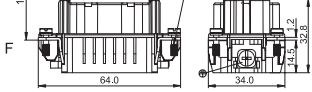
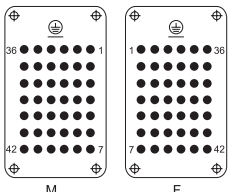
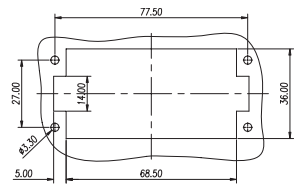
| Description | Metr. | PG | Type | Part Number | |
|---|--|------------|----------------|---|---|
| Hood: Side entry | | | | | |
|  |  | M25 | 16 | HIP HIP.6/16.STS.1.16.G HIP.6/16.STS.1.M25.G HIP-K HIP-K.6/16.STS.1.16.G HIP-K.6/16.STS.1.21.G HIP-K.6/16.STS.1.M25.G | 1-1102631-5 0-1106425-2 2-1102631-5 2-1102633-5 0-1106425-4 |
| | | M25 | 16 21 | EMV-K EMV-K.6/16.STS.1.16.G EMV-K.6/16.STS.1.M25.G | 4-1102704-5 0-1106416-4 |
| | | M25 | 16 | | |
| 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 |
| | | 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 | | | | | |
|  |  | | | HIP HIP.6/16.AG | 1-1102638-5 |
| | | | | HIP-K HIP-K.6/16.AG | 2-1102638-5 |
| | | | | EMV-K EMV-K.6/16.AG | 4-1102710-5 |
|  |  <p>Panel cut-out</p> | | | HIP HIP.6/16.AG.M6 | 1-1102606-5 |
| | | | | HIP-K HIP-K.6/16.AG.M6 | 2-1102606-5 |
| | | | | EMV-K EMV-K.6/16.AG.M6 | 4-1102712-5 |

HDD-042 inserts


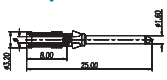

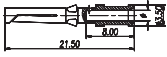
INSERTS FOR H10B HOOD/HOUSING

250V 10A

42+⊕ (machined contacts)

| Dimensions (mm) | Type | Part Number | |
|--|--|-------------|---------------------|
| | | Male insert | Female insert |
| Crimp terminal (order crimp contacts separately) | | | |
|  |  | HDD-042-M | T 2 03 042 2101-000 |
| |  | 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 | | |
|  |  | | |

10A Contact

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

HDD-024 inserts

INSERTS FOR H10B HOOD/HOUSING

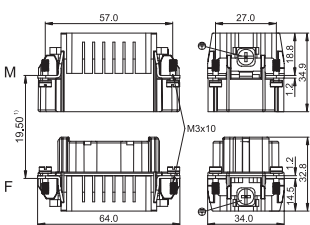
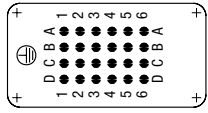
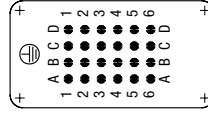
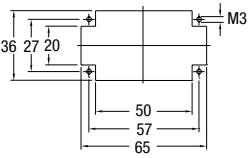
250V 10A

24+  (stamped and formed contacts)

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


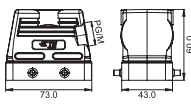
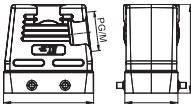


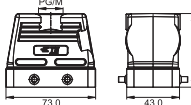



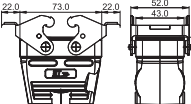


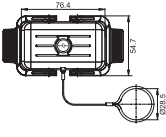

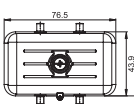
| Dimensions | A | B | C | D | E |
|------------|----|----|----|----|----|
| mm | 57 | 64 | 33 | 35 | 35 |

Suitable crimp contacts and crimping tools: see page 111

| Dimensions (mm) | Contact arrangement | | Panel cut-out |
|---|---|--|---|
| | Male insert | Female insert | |
|  |  |  |  |


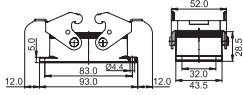

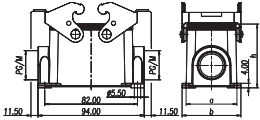

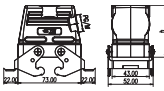

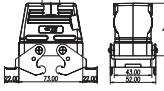



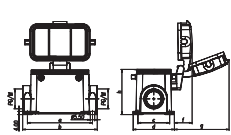
H10B with 2 levers on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | Metr. | PG | Type | Part Number | | | | | | |
|---|-------------------|--------------|--|---|------|------|------------------------------|--------------------------|--|---|
| Hood: Side entry | | | | | | | | | | |
|  <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>Low construction</p>  </div> <div style="text-align: center;"> <p>High construction</p>  </div> </div> | 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 | | | | | | |
|  | 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 | | | | | | | | | | |
|  <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>Low construction</p>  </div> <div style="text-align: center;"> <p>High construction</p>  </div> </div> | 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 | | | | | | |
|  | 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 hood | | | | | | | | | | |
|  <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>Low construction</p>  </div> <div style="text-align: center;"> <p>High construction</p>  </div> <div style="border: 1px solid black; padding: 5px; margin: 0 auto;"> <table border="1"> <thead> <tr> <th>Construction</th> <th>H</th> </tr> </thead> <tbody> <tr> <td>Low</td> <td>62.5</td> </tr> <tr> <td>High</td> <td>74.5</td> </tr> </tbody> </table> </div> </div> | Construction | H | Low | 62.5 | High | 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 |
| Construction | H | | | | | | | | | |
| Low | 62.5 | | | | | | | | | |
| High | 74.5 | | | | | | | | | |
| Protection covers for hoods | | | | | | | | | | |
|  <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  </div> </div> | | | H10B-KDTP | T 1 01 010 1400-000 | | | | | | |
| Housing protection cover | | | | | | | | | | |
|  <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  </div> </div> | | | H10B-KDBP | T 1 01 010 2100-000 | | | | | | |


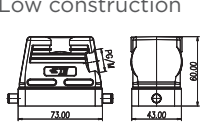

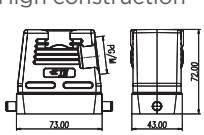

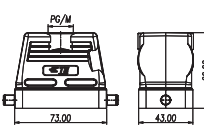

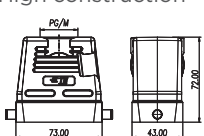

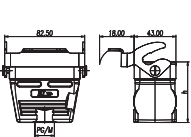

H10B with 2 levers on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | Metr. | PG | Type | Part Number | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--------------|----|----------|---------------------|------|----|---|------------------------------|--|--|----|----|---|--|--|--|------|----|----|----|----|----|----|----|---|--|--|---|
| Bulkhead mounted | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|   | | | H10B-AGS | T 1 41 010 1000-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| Surface mounted: Side entry | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|   <table border="1" data-bbox="316 846 671 936"> <thead> <tr> <th>Construction</th> <th>A</th> <th>B</th> <th>H</th> </tr> </thead> <tbody> <tr> <td>Low</td> <td>40</td> <td>52</td> <td>56</td> </tr> <tr> <td>High</td> <td>45</td> <td>57</td> <td>74</td> </tr> </tbody> </table> | Construction | A | B | H | Low | 40 | 52 | 56 | High | 45 | 57 | 74 | Low construction 1 Side entry M20 M25 High construction 1 Side entry M25 M32 2 Side entry M25 M32 | PG16 PG21 PG16 PG21 PG21 PG29 PG21 PG29 | H10B-SGRS-PG16 H10B-SGRS-PG21 H10B-SGRS-M20 H10B-SGRS-M25 H10B-SGRS-2PG16 H10B-SGRS-2PG21 H10B-SGRS-2M20 H10B-SGRS-2M25 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 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 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 | | | | | | | | | | | | |
| Construction | A | B | H | | | | | | | | | | | | | | | | | | | | | | | | | |
| Low | 40 | 52 | 56 | | | | | | | | | | | | | | | | | | | | | | | | | |
| High | 45 | 57 | 74 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Side entry housing with two levers | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|   <table border="1" data-bbox="316 1173 517 1256"> <thead> <tr> <th>Construction</th> <th>H</th> </tr> </thead> <tbody> <tr> <td>Low</td> <td>60</td> </tr> <tr> <td>High</td> <td>72</td> </tr> </tbody> </table> | Construction | H | Low | 60 | High | 72 | Low construction M20 M25 High construction M25 M32 | PG16 PG21 PG21 PG29 | H10B-TSBS-PG16 H10B-TSBS-PG21 H10B-TSBS-M20 H10B-TSBS-M25 H10B-TSBHS-PG21 H10B-TSBHS-PG29 H10B-TSBHS-M25 H10B-TSBHS-M32 | T 1 25 010 3116-000 T 1 25 010 3121-000 T 1 25 010 3120-000 T 1 25 010 3125-000 T 1 27 010 3121-000 T 1 27 010 3129-000 T 1 27 010 3125-000 T 1 27 010 3132-000 | | | | | | | | | | | | | | | | | | |
| Construction | H | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Low | 60 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| High | 72 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Top entry housing with two levers | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|   <table border="1" data-bbox="316 1431 536 1514"> <thead> <tr> <th>Construction</th> <th>H</th> </tr> </thead> <tbody> <tr> <td>Low</td> <td>60</td> </tr> <tr> <td>High</td> <td>72</td> </tr> </tbody> </table> | Construction | H | Low | 60 | High | 72 | Low construction M20 M25 High construction 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 | | | | | | | | | | | | | | | | | | |
| Construction | H | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Low | 60 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| High | 72 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bulkhead mounted with 4 bolts | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|     <table border="1" data-bbox="316 1935 695 2011"> <thead> <tr> <th>Construction</th> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>F</th> <th>G</th> <th>H</th> </tr> </thead> <tbody> <tr> <td>Low</td> <td>82</td> <td>94</td> <td>40</td> <td>52</td> <td>22</td> <td>67</td> <td>54</td> </tr> <tr> <td>High</td> <td>82</td> <td>94</td> <td>45</td> <td>57</td> <td>20</td> <td>65</td> <td>74</td> </tr> </tbody> </table> | Construction | A | B | C | D | F | G | H | Low | 82 | 94 | 40 | 52 | 22 | 67 | 54 | High | 82 | 94 | 45 | 57 | 20 | 65 | 74 | Low construction 1 Side entry M20 M25 High construction 1 Side entry M25 M32 2 Side entry M25 M32 | PG16 PG21 PG16 PG21 PG21 PG29 PG21 PG29 | H10B-AD-BO 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 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 43 010 0000-000 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 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 |
| Construction | A | B | C | D | F | G | H | | | | | | | | | | | | | | | | | | | | | |
| Low | 82 | 94 | 40 | 52 | 22 | 67 | 54 | | | | | | | | | | | | | | | | | | | | | |
| High | 82 | 94 | 45 | 57 | 20 | 65 | 74 | | | | | | | | | | | | | | | | | | | | | |


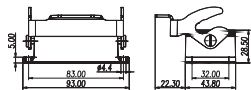

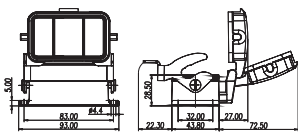

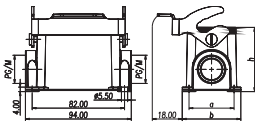

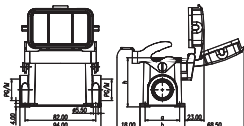
H10B with 1 lever on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | Metr. | PG | Type | Part Number | | | | | | |
|---|---|-------------------|---|---|------|-------|------|------------------------------|--|---|
| Hood: Side entry | | | | | | | | | | |
|  |  | 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 | | | | | | |
|  |  | 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 | | | | | | | | | | |
|  |  | 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 | | | | | | |
|  |  | 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 hood | | | | | | | | | | |
|  |  <table border="1" data-bbox="534 1400 750 1500"> <thead> <tr> <th>Construction</th> <th>H</th> </tr> </thead> <tbody> <tr> <td>Low</td> <td>62.5</td> </tr> <tr> <td>Hight</td> <td>74.5</td> </tr> </tbody> </table> | 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 |
| Construction | H | | | | | | | | | |
| Low | 62.5 | | | | | | | | | |
| Hight | 74.5 | | | | | | | | | |
| Protection covers for hoods | | | | | | | | | | |
|  | | | H10B-KDTP-LB | T 1 01 010 1500-000 | | | | | | |

H10B with 1 lever on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | | Metr. | PG | Type | Part Number | | | | | | | | | | | | |
|---|---|--------------|----|---------------------------|--|-----|----|----|----|-------|----|----|----|--|--|--|--|
| Bulkhead mounted | | | | | | | | | | | | | | | | | |
|  |  | | | 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 | | | | | | | | | | | | | | | | | |
|  |  <table border="1" data-bbox="314 1223 671 1314"> <thead> <tr> <th>Construction</th> <th>A</th> <th>B</th> <th>H</th> </tr> </thead> <tbody> <tr> <td>Low</td> <td>40</td> <td>52</td> <td>54</td> </tr> <tr> <td>Hight</td> <td>45</td> <td>57</td> <td>74</td> </tr> </tbody> </table> | Construction | A | B | H | Low | 40 | 52 | 54 | Hight | 45 | 57 | 74 | 1 Side entry Low construction 2 Side entry M20 M25 High construction 1 Side entry M20 M25 High construction 2 Side entry 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-PG29 H10B-SGRH-LB-M25 H10B-SGRH-LB-M32 H10B-SGRH-LB-2PG21 H10B-SGRH-LB-2PG29 H10B-SGRH-LB-2M25 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 3220-000 T 1 61 010 3225-000 T 1 65 010 3121-000 T 1 65 010 3129-000 T 1 65 010 3125-000 T 1 65 010 3132-000 T 1 65 010 3221-000 T 1 65 010 3229-000 T 1 65 010 3225-000 T 1 65 010 3232-000 |
| Construction | A | B | H | | | | | | | | | | | | | | |
| Low | 40 | 52 | 54 | | | | | | | | | | | | | | |
| Hight | 45 | 57 | 74 | | | | | | | | | | | | | | |
|  | With protection cover  <table border="1" data-bbox="314 1621 671 1713"> <thead> <tr> <th>Construction</th> <th>A</th> <th>B</th> <th>H</th> </tr> </thead> <tbody> <tr> <td>Low</td> <td>40</td> <td>52</td> <td>54</td> </tr> <tr> <td>Hight</td> <td>45</td> <td>57</td> <td>74</td> </tr> </tbody> </table> | Construction | A | B | H | Low | 40 | 52 | 54 | Hight | 45 | 57 | 74 | 1 Side entry Low construction 2 Side entry M20 M25 High construction 1 Side entry M25 M32 High construction 2 Side entry 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-M32 H10B-SDRH-LB-2PG21 H10B-SDRH-LB-2PG29 H10B-SDRH-LB-2M25 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 3220-000 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 3132-000 T 1 66 010 3221-000 T 1 66 010 3229-000 T 1 66 010 3225-000 T 1 66 010 3232-000 |
| Construction | A | B | H | | | | | | | | | | | | | | |
| Low | 40 | 52 | 54 | | | | | | | | | | | | | | |
| Hight | 45 | 57 | 74 | | | | | | | | | | | | | | |

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


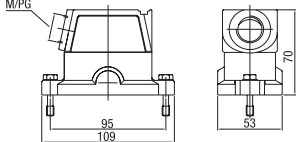

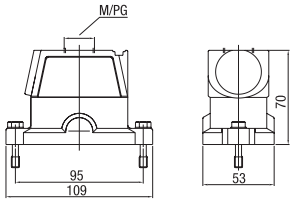

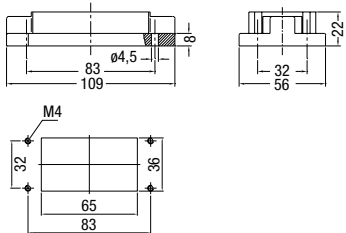
HIP: Pressure-tight, silver-grey

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 | Type | 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 |
| | | 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 |
| | | 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 | | | | |
|  |  | M25 | 16 21 | HIP HIP.10/24.STO.1.16.G HIP.10/24.STO.1.21.G HIP.10/24.STO.1.M25.G 1-1102644-5 1-1102646-5 0-1106436-1 |
| | | M25 M32 | 16 | 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 2-1102644-5 0-1106436-3 0-1106436-5 |
| | | M25 | 21 | EMV-K 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 | | | | |
|  |  | | | 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


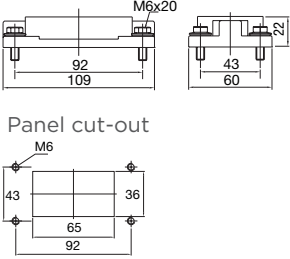

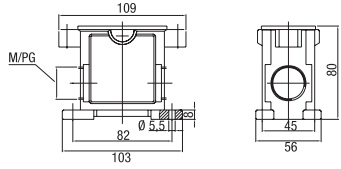

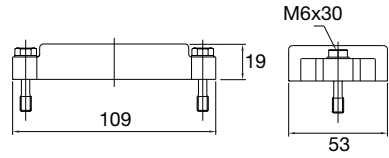
HIP: Pressure-tight, silver-grey

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


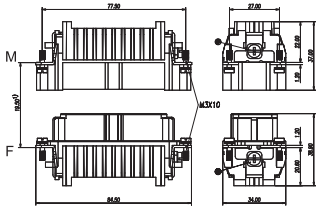
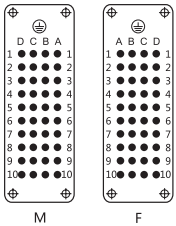
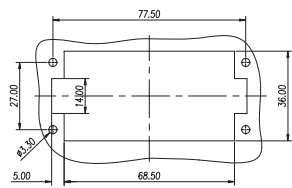
| Description | Metr. | PG | Type | Part Number |
|---|-------|------------|--|--|
| Surface mounted housing: Bottom entry | | | | |
|   | | | HIP HIP.10/24.AG.M6 HIP-K HIP-K.10/24.AG.M6 EMV-K EMV-K.10/24.AG.M6 | 1-1102612-5 2-1102612-5 4-1102720-5 |
| Surface mounted housing: Side entry | | | | |
|   | 2xM32 | 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.M32.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 | | | | |
|   | | | 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


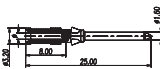


INSERTS FOR H16B HOOD/HOUSING

250V 10A

40+ Ⓢ (machined contacts)

| Dimensions (mm) | | Type | Part Number | |
|--|--|----------|---------------------|---------------|
| | | | Male insert | Female insert |
| Crimp terminal (order crimp contacts separately) | | | | |
|  |  | HD-040-M | T 2 02 040 2101-000 | |
| | | 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 | | | |
|  |  | | | |

10A Contact

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

HD-040 inserts

INSERTS FOR H16B HOOD/HOUSING

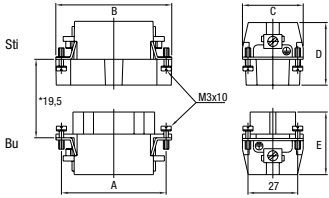
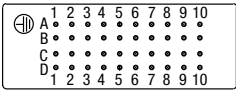
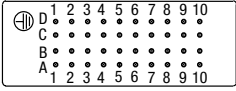
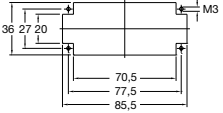
250V 10A

40+  (stamped and formed contacts)

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

| Dimensions | A | B | C | D | E |
|------------|------|------|----|----|----|
| mm | 77.5 | 84.5 | 33 | 35 | 35 |

Suitable crimp contacts and crimping tools: see page 111


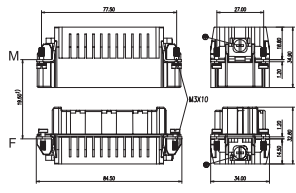
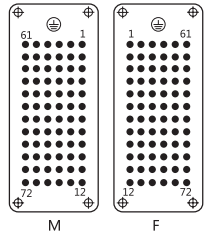
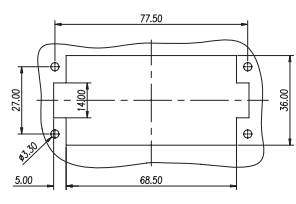
| Dimensions (mm) | Contact arrangement | | Panel cut-out |
|---|---|--|---|
| | Male insert | Female insert | |
|  |  |  |  |

HDD-072 inserts

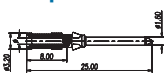

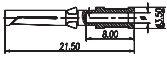
INSERTS FOR H16B HOOD/HOUSING

250V 10A

72+⊕ (machined contacts)


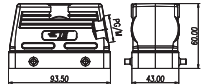

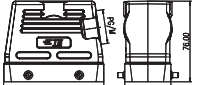

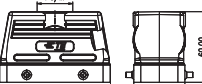



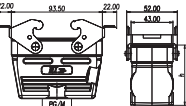

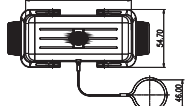

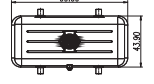
| Dimensions (mm) | | Type | Part Number | |
|--|--|-----------|---------------------|---------------|
| | | | Male insert | Female insert |
| Crimp terminal (order crimp contacts separately) | | | | |
|  |  | HDD-072-M | T 2 03 072 2101-000 | |
| | | HDD-072-F | T 2 03 072 2201-000 | |
| Contact arrangement view from termination side  | Panel cut out for inserts for use without hoods/housings  | | | |

10A Contact

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


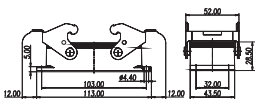

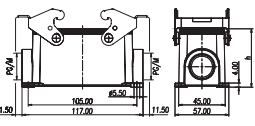

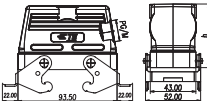

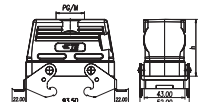

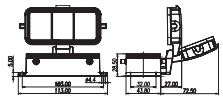
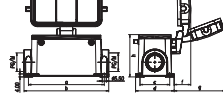
H16B with 2 levers on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | | Metr. | PG | Type | 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 | | | | | | | | | | | |
|  | 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 hood | | | | | | | | | | | |
|  |  <table border="1" data-bbox="533 1346 740 1435"> <thead> <tr> <th>Construction</th> <th>H</th> </tr> </thead> <tbody> <tr> <td>Low</td> <td>62.5</td> </tr> <tr> <td>High</td> <td>74.5</td> </tr> </tbody> </table> | Construction | H | Low | 62.5 | High | 74.5 | M25 M32 | PG21 | H16B-TBFS-PG21 H16B-TBFS-M25 H16B-TBFS-M32 | T 1 71 016 1121-000 T 1 71 016 1125-000 T 1 71 016 1132-000 |
| Construction | H | | | | | | | | | | |
| Low | 62.5 | | | | | | | | | | |
| High | 74.5 | | | | | | | | | | |
| | | M25 M32 M40 | PG21 PG29 | H16B-TBFHS-PG21 H16B-TBFHS-PG29 H16B-TBFHS-M25 H16B-TBFHS-M32 H16B-TBFHS-M40 | 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 for hoods | | | | | | | | | | | |
|  |  | | | H16B-KDTP | T 1 01 016 1400-000 | | | | | | |
| Housing protection cover | | | | | | | | | | | |
|  |  | | | H16B-KDBP | T 1 01 016 2100-000 | | | | | | |


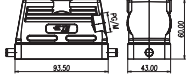

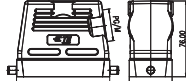

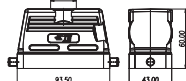

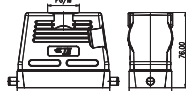

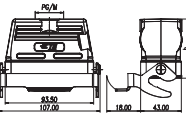

H16B with 2 levers on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | | Metr. | PG | Type | Part Number | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|----------------------------------|---------------------|---------------------|---------------------|---------------------|-----------------------------------|---------------------|----------------|---------------------|---------------------|-----|-----|----|----|----|----|----|-------|-----|-----|----|----|----|----|----|--|--|
| Bulkhead mounted | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  | | | H16B-AGS | T 1 41 016 1000-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| Surface mounted: Side entry | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  | 1 Side entry Low construction | M25 | PG21 | H16B-SGRS-PG21 | T 1 44 016 1121-000 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | M25 | PG21 | H16B-SGRS-M25 | T 1 44 016 1125-000 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | M25 | PG21 | H16B-SGRS-2PG21 | T 1 44 016 1221-000 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | M25 | PG21 | H16B-SGRS-2M25 | T 1 44 016 1225-000 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | M25 | PG29 | H16B-SGRHS-PG21 | T 1 47 016 1121-000 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | M32 | PG29 | H16B-SGRHS-PG29 | T 1 47 016 1129-000 | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <tr> <th>Construction</th> <th>H</th> </tr> <tr> <td>Low</td> <td>56</td> </tr> <tr> <td>Hight</td> <td>81</td> </tr> </table> | Construction | H | Low | 56 | Hight | 81 | 1 Side entry High construction | M25 | PG21 | H16B-SGRHS-M25 | T 1 47 016 1125-000 | | | | | | | | | | | | | | | | | |
| | | Construction | H | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Low | 56 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Hight | 81 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | M32 | PG21 | H16B-SGRHS-M32 | T 1 47 016 1132-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | M25 | PG29 | H16B-SGRHS-2PG21 | T 1 47 016 1221-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| M32 | PG29 | H16B-SGRHS-2PG29 | T 1 47 016 1229-000 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M25 | PG29 | H16B-SGRHS-2M25 | T 1 47 016 1225-000 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M32 | PG29 | H16B-SGRHS-2M32 | T 1 47 016 1232-000 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Side entry housing with two levers | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  | Low construction | M20 | PG16 | H16B-TSBS-PG16 | T 1 25 016 3116-000 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | M25 | PG21 | H16B-TSBS-PG21 | T 1 25 016 3121-000 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | M20 | | H16B-TSBS-M20 | T 1 25 016 3120-000 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | M25 | | H16B-TSBS-M25 | T 1 25 016 3125-000 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | High construction | M25 | PG21 | H16B-TSBHS-PG21 | T 1 27 016 3121-000 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | M32 | PG29 | H16B-TSBHS-PG29 | T 1 27 016 3129-000 | | | | | | | | | | | | | | | | | | | | | | |
| M32 | | H16B-TSBHS-M25 | | T 1 27 016 3125-000 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <tr> <th>Construction</th> <th>H</th> </tr> <tr> <td>Low</td> <td>60</td> </tr> <tr> <td>Hight</td> <td>76</td> </tr> </table> | Construction | H | Low | 60 | Hight | 76 | | | H16B-TSBHS-M32 | T 1 27 016 3132-000 | | | | | | | | | | | | | | | | | | |
| Construction | H | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Low | 60 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hight | 76 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Top entry housing with two levers | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  | Low construction | M20 | PG16 | H16B-TGBS-PG16 | T 1 26 016 3116-000 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | M25 | PG21 | H16B-TGBS-PG21 | T 1 26 016 3121-000 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | M20 | | H16B-TGBS-M20 | T 1 26 016 3120-000 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | M25 | | H16B-TGBS-M25 | T 1 26 016 3125-000 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | High construction | M25 | PG21 | H16B-TGBHS-PG21 | T 1 28 016 3121-000 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | M32 | PG29 | H16B-TGBHS-PG29 | T 1 28 016 3129-000 | | | | | | | | | | | | | | | | | | | | | | |
| M32 | | H16B-TGBHS-M25 | | T 1 28 016 3125-000 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <tr> <th>Construction</th> <th>H</th> </tr> <tr> <td>Low</td> <td>60</td> </tr> <tr> <td>Hight</td> <td>76</td> </tr> </table> | Construction | H | Low | 60 | Hight | 76 | | | H16B-TGBHS-M32 | T 1 28 016 3132-000 | | | | | | | | | | | | | | | | | | |
| Construction | H | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Low | 60 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hight | 76 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bulkhead mounted with 4 bolts | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | With protection cover | | 1 Side entry Low construction | PG21 | H16B-AD-BO | T 1 43 016 0000-000 | | | | | | | | | | | | | | | | | | | | | | | |
| |  | M25 | | | H16B-SDR-BO-PG21 | T 1 46 016 0121-000 | | | | | | | | | | | | | | | | | | | | | | | |
| | | M25 | | | H16B-SDR-BO-M25 | T 1 46 016 0125-000 | | | | | | | | | | | | | | | | | | | | | | | |
| | | M25 | | | H16B-SDR-BO-2PG21 | T 1 46 016 0221-000 | | | | | | | | | | | | | | | | | | | | | | | |
| | | M25 | | | H16B-SDR-BO-2M25 | T 1 46 016 0225-000 | | | | | | | | | | | | | | | | | | | | | | | |
| | |  | | | M25 | H16B-SDRH-BO-PG21 | T 1 49 016 0121-000 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | M32 | H16B-SDRH-BO-PG29 | T 1 49 016 0129-000 | | | | | | | | | | | | | | | | | | | | | | | |
| | M25 | | | H16B-SDRH-BO-M25 | T 1 49 016 0125-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| | M32 | | | H16B-SDRH-BO-M32 | T 1 49 016 0132-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| | High construction | | | M25 | H16B-SDRH-BO-2PG21 | T 1 49 016 0221-000 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | M32 | H16B-SDRH-BO-2PG29 | T 1 49 016 0229-000 | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1"> <tr> <th>Construction</th> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>F</th> <th>G</th> <th>H</th> </tr> <tr> <td>Low</td> <td>105</td> <td>117</td> <td>45</td> <td>57</td> <td>20</td> <td>65</td> <td>56</td> </tr> <tr> <td>Hight</td> <td>105</td> <td>117</td> <td>45</td> <td>57</td> <td>20</td> <td>65</td> <td>81</td> </tr> </table> | | Construction | A | B | C | D | F | G | H | Low | 105 | 117 | 45 | 57 | 20 | 65 | 56 | Hight | 105 | 117 | 45 | 57 | 20 | 65 | 81 | | |
| Construction | A | B | C | D | F | G | H | | | | | | | | | | | | | | | | | | | | | | |
| Low | 105 | 117 | 45 | 57 | 20 | 65 | 56 | | | | | | | | | | | | | | | | | | | | | | |
| Hight | 105 | 117 | 45 | 57 | 20 | 65 | 81 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | H16B-SDRH-BO-2M32 | T 1 49 016 0232-000 | | | | | | | | | | | | | | | | | | | | |


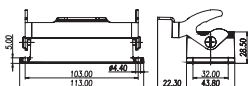

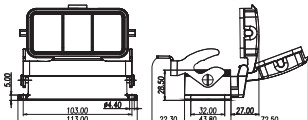

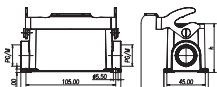

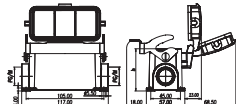
H16B with 1 lever on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | | Metr. | PG | Type | 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 hood | | | | | | | | | | | |
|  |  <table border="1" data-bbox="533 1352 756 1442"> <thead> <tr> <th>Construction</th> <th>H</th> </tr> </thead> <tbody> <tr> <td>Low</td> <td>62.5</td> </tr> <tr> <td>Hight</td> <td>74.5</td> </tr> </tbody> </table> | Construction | H | Low | 62.5 | Hight | 74.5 | M25 M32 | PG21 PG29 | H16B-TBF-LB-PG21 H16B-TBF-LB-PG29 H16B-TBF-LB-M25 H16B-TBF-LB-M32 | T 1 73 016 3121-000 T 1 73 016 3129-000 T 1 73 016 3125-000 T 1 73 016 3132-000 |
| Construction | H | | | | | | | | | | |
| Low | 62.5 | | | | | | | | | | |
| Hight | 74.5 | | | | | | | | | | |
| | | M25 M32 M40 | PG21 PG29 | H16B-TBFH-LB-PG21 H16B-TBFH-LB-PG29 H16B-TBFH-LB-M25 H16B-TBFH-LB-M32 H16B-TBFH-LB-M40 | 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 for hoods | | | | | | | | | | | |
|  | | | | H16B-KDTP-LB | T 1 01 016 1500-000 | | | | | | |

H16B with 1 lever on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | Metr. | PG | Type | Part Number | | | | | | |
|--|--------------|----|------------|---------------------|------|----|---|--|--|--|
| Bulkhead mounted | | | | | | | | | | |
|   | | | H16B-AG-LB | T 1 50 016 3000-000 | | | | | | |
|   | | | H16B-AD-LB | T 1 51 016 3000-000 | | | | | | |
| Surface mounted: Side entry | | | | | | | | | | |
|   <table border="1" data-bbox="325 1151 544 1240"> <tr> <td>Construction</td> <td>H</td> </tr> <tr> <td>Low</td> <td>56</td> </tr> <tr> <td>High</td> <td>81</td> </tr> </table> | Construction | H | Low | 56 | High | 81 | 1 Side entry Low construction M20 M25 2 Side entry M20 M25 High construction 1 Side entry M25 M32 2 Side entry 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-PG21 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 | 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 3220-000 T 1 61 016 3225-000 T 1 65 016 3121-000 T 1 65 016 3129-000 T 1 65 016 3125-000 T 1 65 016 3132-000 T 1 65 016 3221-000 T 1 65 016 3229-000 T 1 65 016 3225-000 T 1 65 016 3232-000 |
| Construction | H | | | | | | | | | |
| Low | 56 | | | | | | | | | |
| High | 81 | | | | | | | | | |
|   <table border="1" data-bbox="325 1568 544 1657"> <tr> <td>Construction</td> <td>H</td> </tr> <tr> <td>Low</td> <td>56</td> </tr> <tr> <td>High</td> <td>81</td> </tr> </table> | Construction | H | Low | 56 | High | 81 | 1 Side entry Low construction M20 M25 2 Side entry M20 M25 High construction 1 Side entry M25 M32 2 Side entry 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-M25 H16B-SDRH-LB-M32 H16B-SDRH-LB-2PG21 H16B-SDRH-LB-2PG29 H16B-SDRH-LB-2M25 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 3220-000 T 1 62 016 3225-000 T 1 66 016 3121-000 T 1 66 016 3129-000 T 1 66 016 3125-000 T 1 66 016 3132-000 T 1 66 016 3221-000 T 1 66 016 3229-000 T 1 66 016 3225-000 T 1 66 016 3232-000 |
| Construction | H | | | | | | | | | |
| Low | 56 | | | | | | | | | |
| High | 81 | | | | | | | | | |

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






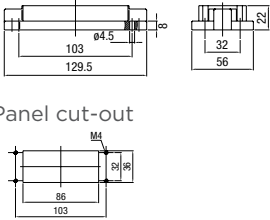

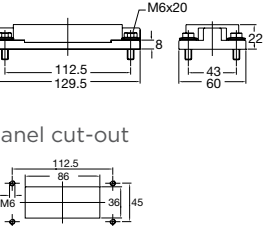
HIP: Pressure-tight, silver-grey

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 |
|---|---|-----|---|---|
| Hood: Side entry | | | | |
|  |  | M32 | 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 | HIP-K HIP-K.16/40.STS.1.29.G HIP-K.16/40.STS.1.M32.G | 2-1102651-5 0-1106444-2 |
| | | M32 | 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 | | | | |
|  |  | M32 | 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 |
| | | M32 | 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 | 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 | | | | |
|  |  | | HIP HIP.16/40.AG | 1-1102656-5 |
| | | | HIP-K HIP-K.16/40.AG | 2-1102656-5 |
| | | | EMV-K EMV-K.16/40.AG | 4-1102728-5 |
|  |  | | HIP HIP.16/40.AG.M6 | 1-1102618-5 |
| | | | HIP-K HIP-K.16/40.AG.M6 | 2-1102618-5 |
| | | | 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


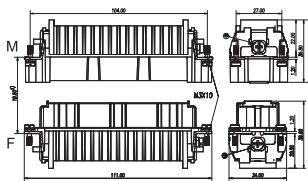
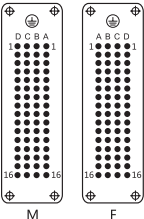
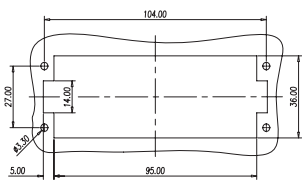
| Description | Metr. | PG | Type | Part Number |
|---|-------|------------|---------------------------------------|-------------|
| Surface mounted housing: Side entry | | | | |
|  | 2xM32 | 21 2x21 | HIP HIP.16/40.SG.1.21.G | 1-1102616-5 |
| | | | HIP.16/40.SG.2.21.G | 1-1102617-5 |
| | | | HIP.16/40.SG.2.M32.G | 0-1106453-1 |
| | 2xM32 | 21 2x21 | HIP-K HIP-K.16/40.SG.1.21.G | 5-1102616-5 |
| | | | HIP-K.16/40.SG.2.21.G | 2-1102617-5 |
| | | | HIP-K.16/40.SG.2.M32.G | 0-1106443-1 |
| | 2xM32 | 21 2x21 | EMV-K EMV-K.16/40.SG.1.21.Z | 4-1102726-5 |
| | | | EMV-K.16/40.SG.2.21.Z | 4-1102727-5 |
| | | | EMV-K.16/40.SG.2.M32.G | 0-1106445-2 |
| Protective covers for housings | | | | |
|  | | | HIP HIP/EMV.16/40.SKB | 3-1106203-5 |
| | | | HIP-K HIP-K.16/40.SKB | 4-1106203-5 |

HD-064 inserts


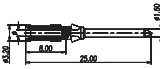

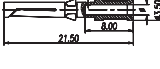
INSERTS FOR H24B HOOD/HOUSING

250V 10A

64+ (machined contacts)

| Dimensions (mm) | | Type | Part Number | |
|--|--|----------|---------------------|---------------------|
| | | | Male insert | Female insert |
| Crimp terminal (order crimp contacts separately) | | | | |
|  |  | HD-064-M | T 2 02 064 2101-000 | |
| | | 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  | | | |

10A Contact

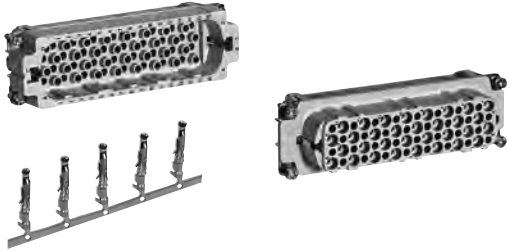
| Tech data Material: copper alloy Contact resistance: $\leq 3m\Omega$ Terminal: crimp connection CDM/Male  | 10A Male crimp contacts  | Wire gauge | | Stripping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|--|-----------------|-------|------------------|-------------------------------|---------------------|-----------------------------|---------------------|
| | | mm ² | AWG | | Type | Part Number | Type | Part Number |
| | | 0.14-0.37 | 26-22 | 8.0 | CDM-0.14 | T 2 02 000 1002-000 | DDM-0.14 | T 2 02 001 1002-000 |
| | | 0.5 | 20 | 8.0 | CDM-0.5 | T 2 02 000 1005-000 | DDM-0.5 | T 2 02 001 1005-000 |
| | | 0.75 | 18 | 8.0 | CDM-0.75 | T 2 02 000 1008-000 | DDM-0.75 | T 2 02 001 1008-000 |
| | | 1.0 | 18 | 8.0 | CDM-1.0 | T 2 02 000 1010-000 | DDM-1.0 | T 2 02 001 1010-000 |
| | | 1.5 | 16 | 8.0 | CDM-1.5 | T 2 02 000 1015-000 | DDM-1.5 | T 2 02 001 1015-000 |
| | | 2.5 | 14 | 6.0 | CDM-2.5 | T 2 02 000 1025-000 | DDM-2.5 | T 2 02 001 1025-000 |
| CDF/Female  | 10A Female crimp contacts  | 0.14-0.37 | 26-22 | 8.0 | CDF-0.14 | T 2 02 000 2002-000 | DDF-0.14 | T 2 02 001 2002-000 |
| | | 0.5 | 20 | 8.0 | CDF-0.5 | T 2 02 000 2005-000 | DDF-0.5 | T 2 02 001 2005-000 |
| | | 0.75 | 18 | 8.0 | CDF-0.75 | T 2 02 000 2008-000 | DDF-0.75 | T 2 02 001 2008-000 |
| | | 1.0 | 18 | 8.0 | CDF-1.0 | T 2 02 000 2010-000 | DDF-1.0 | T 2 02 001 2010-000 |
| | | 1.5 | 16 | 8.0 | CDF-1.5 | T 2 02 000 2015-000 | DDF-1.5 | T 2 02 001 2015-000 |
| | | 2.5 | 14 | 6.0 | CDF-2.5 | T 2 02 000 2025-000 | DDF-2.5 | T 2 02 001 2025-000 |

HD-064 inserts

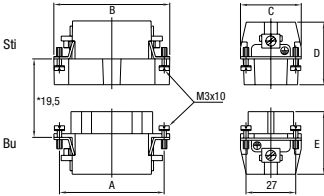
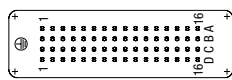
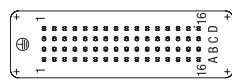
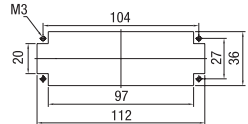
INSERTS FOR H24B HOOD/HOUSING

250V 10A

64+  (stamped and formed contacts)

| Description | | Type | 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


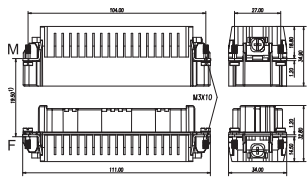
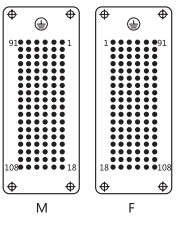
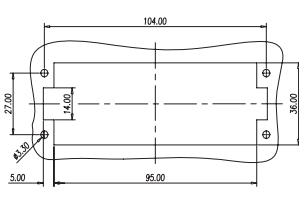
| Dimensions (mm) | Contact arrangement | | Panel cut-out |
|---|---|--|---|
| | Male insert | Female insert | |
|  |  |  |  |

HDD-108 inserts


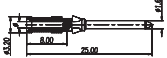

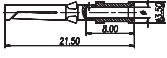
INSERTS FOR H24B HOOD/HOUSING

250V 10A

108+⊕ (machined contacts)

| Dimensions (mm) | Type | Part Number | |
|--|--|---------------------|---------------------|
| | | Male insert | Female insert |
| Crimp terminal (order crimp contacts separately) | | | |
|  |  | HDD-108-M | T 2 03 108 2101-000 |
| | 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  | | |


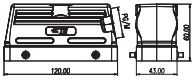

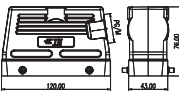

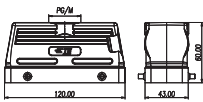

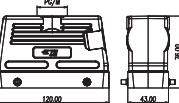

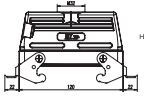

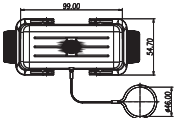

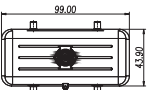
10A Contact

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




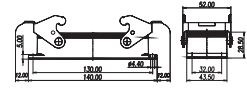

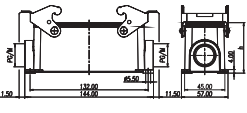

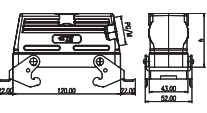

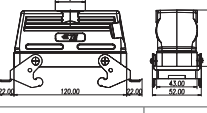



H24B with 2 levers on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | | Metr. | PG | Type | Part Number | | | | | | |
|---|--|-------------------|--------------|--|---|------|------|------------|------|--|---|
| Hood: Side entry | | | | | | | | | | | |
|  | <p>Low construction</p>  | 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 | | | | | | |
|  | <p>High construction</p>  | 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 | | | | | | | | | | | |
|  | <p>Low construction</p>  | 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 | | | | | | |
|  | <p>High construction</p>  | 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 hood | | | | | | | | | | | |
|  |  <table border="1" data-bbox="533 1361 750 1456"> <thead> <tr> <th>Construction</th> <th>H</th> </tr> </thead> <tbody> <tr> <td>Low</td> <td>62.5</td> </tr> <tr> <td>High</td> <td>78.5</td> </tr> </tbody> </table> | Construction | H | Low | 62.5 | High | 78.5 | M25 M32 | PG21 | H24B-TBFS-PG21 H24B-TBFS-M25 H24B-TBFS-M32 | T 1 71 024 1121-000 T 1 71 024 1125-000 T 1 71 024 1132-000 |
| Construction | H | | | | | | | | | | |
| Low | 62.5 | | | | | | | | | | |
| High | 78.5 | | | | | | | | | | |
| | | M25 M32 M40 | PG21 PG29 | H24B-TBFHS-PG21 H24B-TBFHS-PG29 H24B-TBFHS-M25 H24B-TBFHS-M32 H24B-TBFHS-M40 | 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 for hoods | | | | | | | | | | | |
|  |  | | | H24B-KDTP | T 1 01 024 1400-000 | | | | | | |
| Housing protection cover | | | | | | | | | | | |
|  |  | | | H24B-KDBP | T 1 01 024 2100-000 | | | | | | |


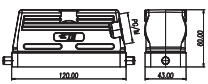

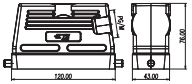

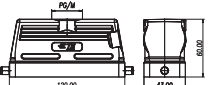

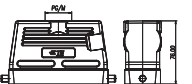

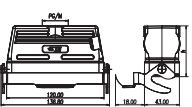

H24B with 2 levers on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | | Metr. | PG | Type | Part Number | | | | | | | | | | | | | | | | | | | | |
|---|--|--|--|--|--|---|--------------|--|--|--|--|---|---|---|-----|-----|-----|----|----|----|----|----|------|-----|-----|
| Bulkhead mounted | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  | | | H24B-AGS | T 1 41 024 1000-000 | | | | | | | | | | | | | | | | | | | | |
| Surface mounted: Side entry | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  <table border="1"> <tr> <td>Construction</td> <td>H</td> </tr> <tr> <td>Low</td> <td>56</td> </tr> <tr> <td>High</td> <td>81</td> </tr> </table> | Construction | H | Low | 56 | High | 81 | 1 Side entry Low construction M25 2 Side entry Low construction M25 1 Side entry High construction M25 M32 2 Side entry High construction 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-PG29 H24B-SGRHS-M25 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 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 | | | | | | | | | | | | | | |
| | | Construction | H | | | | | | | | | | | | | | | | | | | | | | |
| Low | 56 | | | | | | | | | | | | | | | | | | | | | | | | |
| High | 81 | | | | | | | | | | | | | | | | | | | | | | | | |
| Side entry housing with two levers | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  <table border="1"> <tr> <td>Construction</td> <td>H</td> </tr> <tr> <td>Low</td> <td>60</td> </tr> <tr> <td>High</td> <td>76</td> </tr> </table> | Construction | H | Low | 60 | High | 76 | Low construction M20 M25 High construction 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 | | | | | | | | | | | | | | |
| Construction | H | | | | | | | | | | | | | | | | | | | | | | | | |
| Low | 60 | | | | | | | | | | | | | | | | | | | | | | | | |
| High | 76 | | | | | | | | | | | | | | | | | | | | | | | | |
| Top entry housing with two levers | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  <table border="1"> <tr> <td>Construction</td> <td>H</td> </tr> <tr> <td>Low</td> <td>60</td> </tr> <tr> <td>High</td> <td>76</td> </tr> </table> | Construction | H | Low | 60 | High | 76 | Low construction M20 M25 High construction 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 3129-000 T 1 28 024 3125-000 T 1 28 024 3132-000 | | | | | | | | | | | | | | |
| Construction | H | | | | | | | | | | | | | | | | | | | | | | | | |
| Low | 60 | | | | | | | | | | | | | | | | | | | | | | | | |
| High | 76 | | | | | | | | | | | | | | | | | | | | | | | | |
| Bulkhead mounted with 4 bolts | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | With protection cover | | 1 Side entry Low construction M25 2 Side entry Low construction M25 1 Side entry High construction M25 M32 2 Side entry High construction M25 M32 | PG21 PG21 PG21 PG29 PG21 PG29 | H24B-AD-BO H24B-SDR-BO-PG21 H24B-SDR-BO-M25 H24B-SDR-BO-2PG21 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-2PG29 H24B-SDRH-BO-2M25 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 0129-000 T 1 49 024 0125-000 T 1 49 024 0132-000 T 1 49 024 0221-000 T 1 49 024 0229-000 T 1 49 024 0225-000 T 1 49 024 0232-000 | | | | | | | | | | | | | | | | | | | |
| |  |  <table border="1"> <tr> <td>Construction</td> <td>A</td> <td>B</td> <td>C</td> <td>D</td> <td>F</td> <td>G</td> <td>H</td> </tr> <tr> <td>Low</td> <td>132</td> <td>144</td> <td>45</td> <td>57</td> <td>20</td> <td>65</td> <td>56</td> </tr> <tr> <td>High</td> <td>132</td> <td>144</td> <td>45</td> <td>57</td> <td>20</td> <td>65</td> <td>81</td> </tr> </table> | | | | | Construction | A | B | C | D | F | G | H | Low | 132 | 144 | 45 | 57 | 20 | 65 | 56 | High | 132 | 144 |
| Construction | A | B | C | D | F | G | H | | | | | | | | | | | | | | | | | | |
| Low | 132 | 144 | 45 | 57 | 20 | 65 | 56 | | | | | | | | | | | | | | | | | | |
| High | 132 | 144 | 45 | 57 | 20 | 65 | 81 | | | | | | | | | | | | | | | | | | |


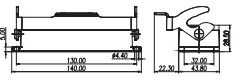

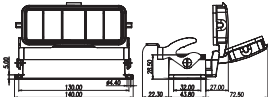

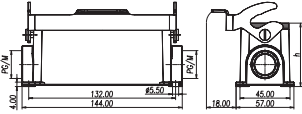

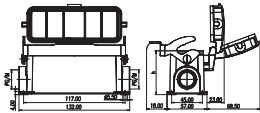
H24B with 1 lever on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | | Metr. | PG | Type | 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 | | | | | | | | | | | |
|  | 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 hood | | | | | | | | | | | |
|  |  <table border="1" data-bbox="531 1339 746 1429"> <thead> <tr> <th>Construction</th> <th>H</th> </tr> </thead> <tbody> <tr> <td>Low</td> <td>62.5</td> </tr> <tr> <td>High</td> <td>78.5</td> </tr> </tbody> </table> | Construction | H | Low | 62.5 | High | 78.5 | Low construction (M25, M32) High construction (M25, M32, M40) | 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 |
| Construction | H | | | | | | | | | | |
| Low | 62.5 | | | | | | | | | | |
| High | 78.5 | | | | | | | | | | |
| Protection covers for hoods | | | | | | | | | | | |
|  | | | | H24B-KDTP-LB | T 1 01 024 1500-000 | | | | | | |

H24B with 1 lever on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | Metr. | PG | Type | Part Number | | | | | | | | |
|---|--|--------------|------------|---------------------|----|------|----|---|--|--|--|--|
| Bulkhead mounted | | | | | | | | | | | | |
|  |  | | H24B-AG-LB | T 1 50 024 3000-000 | | | | | | | | |
|  | With protection cover  | | H24B-AD-LB | T 1 51 024 3000-000 | | | | | | | | |
| Surface mounted: Side entry | | | | | | | | | | | | |
|  |  <table border="1" data-bbox="320 1160 539 1256"> <tr> <td>Construction</td> <td>H</td> </tr> <tr> <td>Low</td> <td>56</td> </tr> <tr> <td>High</td> <td>81</td> </tr> </table> | Construction | H | Low | 56 | High | 81 | Low construction 1 Side entry 2 Side entry High construction 1 Side entry 2 Side entry | M20 M25 M20 M25 M25 M32 M25 M32 | PG16 PG21 PG16 PG21 PG21 PG29 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-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 3220-000 T 1 61 024 3225-000 T 1 65 024 3121-000 T 1 65 024 3129-000 T 1 65 024 3125-000 T 1 65 024 3132-000 T 1 65 024 3221-000 T 1 65 024 3229-000 T 1 65 024 3225-000 T 1 65 024 3232-000 |
| Construction | H | | | | | | | | | | | |
| Low | 56 | | | | | | | | | | | |
| High | 81 | | | | | | | | | | | |
|  | With protection cover  <table border="1" data-bbox="320 1608 539 1704"> <tr> <td>Construction</td> <td>H</td> </tr> <tr> <td>Low</td> <td>56</td> </tr> <tr> <td>High</td> <td>81</td> </tr> </table> | Construction | H | Low | 56 | High | 81 | Low construction 1 Side entry 2 Side entry High construction 1 Side entry 2 Side entry | M20 M25 M20 M25 M25 M32 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-2PG21 H24B-SDR-LB-2M20 H24B-SDR-LB-2M25 H24B-SDRH-LB-PG21 H24B-SDRH-LB-PG29 H24B-SDRH-LB-M25 H24B-SDRH-LB-M32 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 3220-000 T 1 62 024 3225-000 T 1 66 024 3121-000 T 1 66 024 3129-000 T 1 66 024 3125-000 T 1 66 024 3132-000 T 1 66 024 3221-000 T 1 66 024 3229-000 T 1 66 024 3225-000 T 1 66 024 3232-000 |
| Construction | H | | | | | | | | | | | |
| Low | 56 | | | | | | | | | | | |
| High | 81 | | | | | | | | | | | |

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


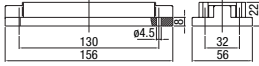

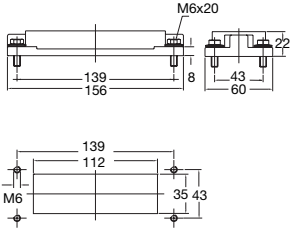

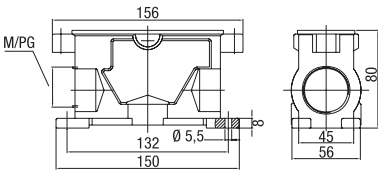

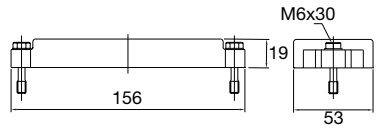
HIP: Pressure-tight, silver-grey

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 | 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 | |
|  |  | | HIP HIP.24/64.AG.M6 | 1-1102626-5 | |
| | | | HIP-K HIP-K.24/64.AG.M6 HIP-K.24/64.AG.M6.D HIP-K-I.24/64.AG.M6.D | 2-1102626-5 2-1102628-5 0-1108533-1 | |
| | | | EMV-K EMV-K.24/64.AG.M6 | 4-1102736-5 | |
| Surface mounted housing: Side entry, Standard construction | | | | | |
|  |  | 2xM40 | HIP HIP.24/64.SG.1.29.G HIP.24/64.SG.2.29.G HIP.24/64.SG.2.M40.G | 1-1102624-5 1-1102625-5 0-1106472-1 | |
| | | | 29 2x29 | HIP-K HIP-K.24/64.SG.1.29.G HIP-K.24/64.SG.2.29.G HIP-K.24/64.SG.2.M40.G | 5-1102624-5 2-1102625-5 0-1106472-2 |
| | | | 29 2x29 | EMV-K EMV-K.24/64.SG.1.29.G EMV-K.24/64.SG.2.29.G EMV-K.24/64.SG.2.M40.G | 4-1102734-5 4-1102735-5 0-1106460-2 |
| Protective cover housings | | | | | |
|  |  | | HIP HIP/EMV.24/64.SKB | 3-1106204-5 | |
| | | | HIP-K/EMV-K HIP-K/EMV-K.24/64.SKB | 4-1106204-5 | |

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


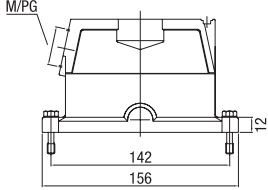

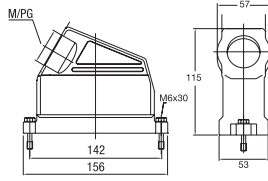

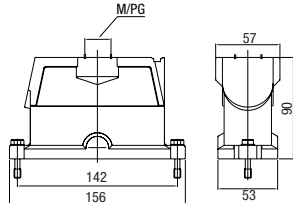
HIP: Pressure-tight, silver-grey

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 | Type | Part Number | | | | |
|---|---|--|---|---|--|---|---|---|
| Hood: Side entry, Standard construction | | | | | | | | |
|  |  | 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 | | | |
| | | 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 | | | |
| |  |  | 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 | | |
| | | | M40 | 29 36 | HIP-K HIP-KF/K.24/64.STS.1.29.G HIP-KF/K.24/64.STS.1.36.G HIP-KF/K.24/64.STS.1.M40.G | 2-1102622-5 2-1102623-5 0-1106474-2 | | |
| | | | 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 | | | |
| | | | | | 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 |
| 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 | | | |
| 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 | | | | | | |


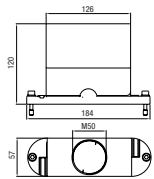

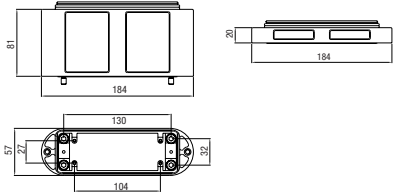

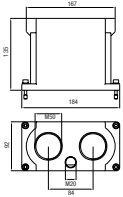

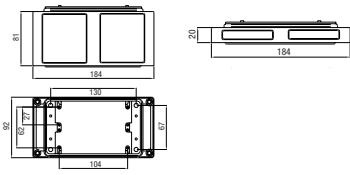
HF-HIP-K 8/HF-EMV-K 8, HF-HIP-K 12/HF-EMV-K 12 housings

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


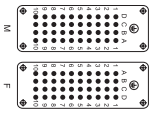

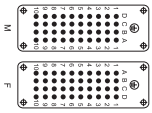
| Description | Metr. | PG | Type | Part Number |
|---|---|---|--|--|
| Hood | | | | |
|  |  | 1xM50 1xM50 2xM40 2xM40 | HF-HIP-K.8.Sto.1.M50G HF.8.EMV-K.8.Sto.1.M50G HF.HIP-K.8.Sto.2.M40G HF.EMV-K.8.Sto.2.M40G | 0-1102839-4 0-1102839-3 0-1102839-2 0-1102839-1 |
| Housing bottom | | | | |
|  |  | Height 20 mm 20 mm 81 mm 81 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 | | | | |
|  |  | Height 20 mm 20 mm 81 mm 81 mm | HF-HIP-K.12.AG.N HF-EMV-K.12.AG.N HF-HIP-K.12.AG HF-EMV-K.12.AG | 0-1102838-2 0-1102838-1 0-1102192-2 0-1102192-1 |

HD-080 inserts

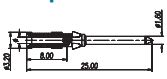


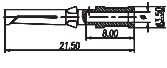
INSERTS FOR H32B HOOD/HOUSING

250V 10A

80 (2x40)+⊕ (machined contacts)

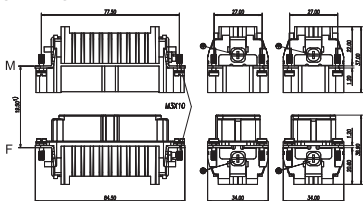
| Dimensions (mm) | | Type | Part Number | |
|---|---|-----------------------------------|--|--|
| | | | Male insert | Female insert |
| Crimp terminal (order crimp contacts separately) | Contact arrangement view from termination side | | | |
|  |  | HD-040-M(1-40) HD-040-M(41-80) | T 2 02 040 2101-000 T 2 02 080 2101-000 | |
|  |  | HD-040-F(1-40) HD-040-F(41-80) | | T 2 02 040 2201-000 T 2 02 080 2201-000 |

10A Contact

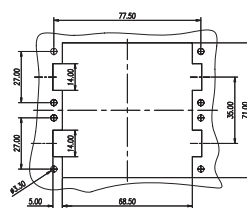
| Tech data Material: copper alloy Contact resistance: $\leq 3m\Omega$ Terminal: crimp connection CDM/Male | 10A Male crimp contacts  | Wire gauge | | Stripping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|--|-----------------|-------|------------------|-------------------------------|---------------------|-----------------------------|---------------------|
| | | mm ² | AWG | | Type | Part Number | Type | Part Number |
|  | | 0.14-0.37 | 26-22 | 8.0 | CDM-0.14 | T 2 02 000 1002-000 | DDM-0.14 | T 2 02 001 1002-000 |
| | | 0.5 | 20 | 8.0 | CDM-0.5 | T 2 02 000 1005-000 | DDM-0.5 | T 2 02 001 1005-000 |
| | | 0.75 | 18 | 8.0 | CDM-0.75 | T 2 02 000 1008-000 | DDM-0.75 | T 2 02 001 1008-000 |
| | | 1.0 | 18 | 8.0 | CDM-1.0 | T 2 02 000 1010-000 | DDM-1.0 | T 2 02 001 1010-000 |
| | | 1.5 | 16 | 8.0 | CDM-1.5 | T 2 02 000 1015-000 | DDM-1.5 | T 2 02 001 1015-000 |
| | | 2.5 | 14 | 6.0 | CDM-2.5 | T 2 02 000 1025-000 | DDM-2.5 | T 2 02 001 1025-000 |
| CDF/Female  | 10A Female crimp contacts  | 0.14-0.37 | 26-22 | 8.0 | CDF-0.14 | T 2 02 000 2002-000 | DDF-0.14 | T 2 02 001 2002-000 |
| | | 0.5 | 20 | 8.0 | CDF-0.5 | T 2 02 000 2005-000 | DDF-0.5 | T 2 02 001 2005-000 |
| | | 0.75 | 18 | 8.0 | CDF-0.75 | T 2 02 000 2008-000 | DDF-0.75 | T 2 02 001 2008-000 |
| | | 1.0 | 18 | 8.0 | CDF-1.0 | T 2 02 000 2010-000 | DDF-1.0 | T 2 02 001 2010-000 |
| | | 1.5 | 16 | 8.0 | CDF-1.5 | T 2 02 000 2015-000 | DDF-1.5 | T 2 02 001 2015-000 |
| | | 2.5 | 14 | 6.0 | CDF-2.5 | T 2 02 000 2025-000 | DDF-2.5 | T 2 02 001 2025-000 |

Distance for contact max. 24mm

Crimp terminal



Panel cut-out for inserts for use without hoods/housings



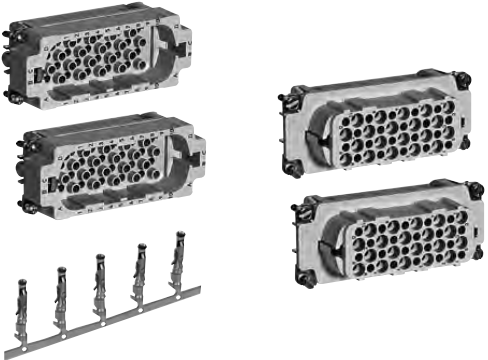
All specifications subject to change. Consult TE Connectivity for latest design specifications. Contact TE for assistance with any part number configuration.

HD-080 inserts

INSERTS FOR H32B HOOD/HOUSING

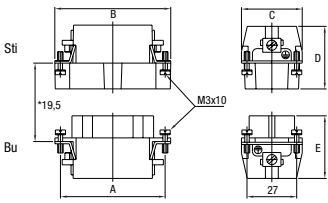
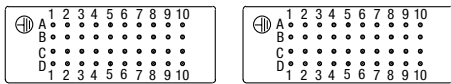
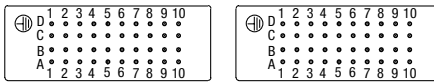
250V 10A

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

| Description | | Type | 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 | A | B | C | D | E |
|------------|------|------|----|----|----|
| mm | 77.5 | 84.5 | 33 | 35 | 35 |

Suitable crimp contacts and crimping tools: see page 111


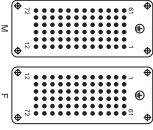

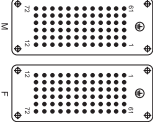
| Dimensions (mm) | Contact arrangement | |
|---|---|---|
| | Male insert | Female insert |
|  |  |  |

HDD-144 inserts


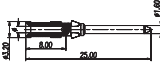

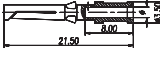
INSERTS FOR H32B HOOD/HOUSING

250V 10A

144 (2x72)+⊕ (machined contacts)

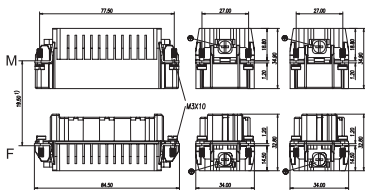
| Dimensions (mm) | | Type | Part Number | |
|---|---|--------------------------------------|--|--|
| | | | Male insert | Female insert |
| Crimp terminal (order crimp contacts separately) | Contact arrangement view from termination side | | | |
|  |  | HDD-072-M(1-72) HDD-072-M(73-144) | T 2 03 072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

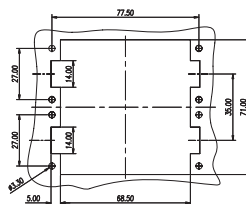
| Tech data Material: copper alloy Contact resistance: $\leq 3m\Omega$ Terminal: crimp connection CDM/Male  | 10A Male crimp contacts  | Wire gauge | | Strip-ping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|--|--|-----------------|-------|-------------------|-------------------------------|---------------------|-------------------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

Distance for contact max. 24mm

Crimp terminal




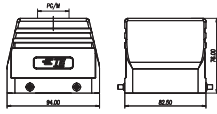

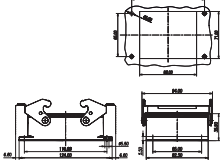

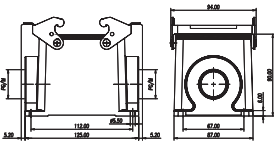

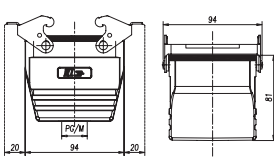

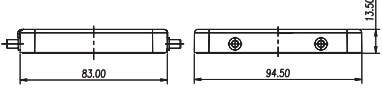


Panel cut-out for inserts for use without hoods/housings




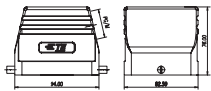

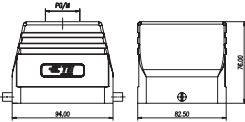

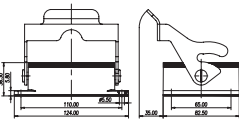

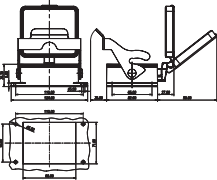

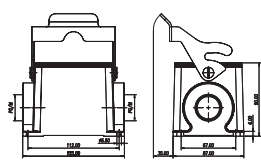

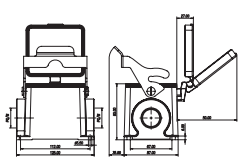
H32B with 2 levers on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | Metr. | PG | Type | Part Number |
|---|---|--|---|--|
| Hood: Side entry | | | | |
|  |  | 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 | | | | |
|  |  | | H32B-AG | T 1 41 032 2000-000 |
| Surface mounted: 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-M40 H32B-SGR-M50 H32B-SGR-M63 H32B-SGR-2PG29 H32B-SGR-2PG36 H32B-SGR-2PG42 H32B-SGR-2M32 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 2163-000 T 1 44 032 2229-000 T 1 44 032 2236-000 T 1 44 032 2242-000 T 1 44 032 2232-000 T 1 44 032 2240-000 T 1 44 032 2250-000 T 1 44 032 2263-000 |
| Cable-to-cable hood | | | | |
|  |  | 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 | | | | |
|  |  | | H32B-KDB | T 1 00 032 1220-000 |

H32B with 1 lever on the hoods/housings

POWDER-COATED, RAL 7037


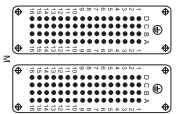

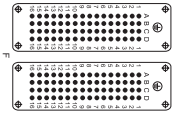
| Dimensions (mm) | | Metr. | PG | Type | Part Number |
|---|--|--|------------------------------|--|--|
| Hood: Side entry | | | | | |
|  |  | M32 M40 | PG29 PG36 | H32B-TS-RO-PG29 H32B-TS-RO-PG36 H32B-TS-RO-M32 H32B-TS-RO-M40 | T 1 31 032 0129-000 T 1 31 032 0136-000 T 1 31 032 0132-000 T 1 31 032 0140-000 |
| Hood: Top entry | | | | | |
|  |  | 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: Side entry | | | | | |
|  |  | 1 Side entry M32 M40 2 Side entry M32 M40 | PG29 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  | 1 Side entry M32 M40 2 Side entry M32 M40 | PG29 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

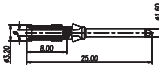

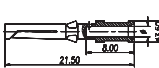
INSERTS FOR H48B HOOD/HOUSING

250V 10A

128 (2x64)+⊕ (machined contacts)

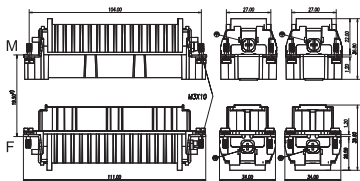
| Dimensions (mm) | | Type | Part Number | |
|---|---|------------------------------------|--|--|
| | | | Male insert | Female insert |
| Crimp terminal (order crimp contacts separately) | Contact arrangement view from termination side | | | |
|  |  | HD-064-M(1-64) HD-064-M(65-128) | T 2 02 064 2101-000 T 2 02 128 2101-000 | |
|  |  | HD-064-F(1-64) HD-064-F(65-128) | | T 2 02 064 2201-000 T 2 02 128 2201-000 |

10A Contact

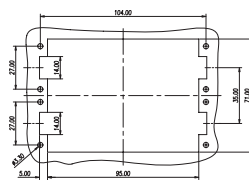
| Tech data Material: copper alloy Contact resistance: $\leq 3m\Omega$ Terminal: crimp connection CDM/Male | 10A Male crimp contacts  | Wire gauge | | Strip- ping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|--|-----------------|-------|--------------------------|-------------------------------|---------------------|-----------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

Distance for contact max. 24mm

Crimp terminal



Panel cut-out for inserts for use without hoods/housings

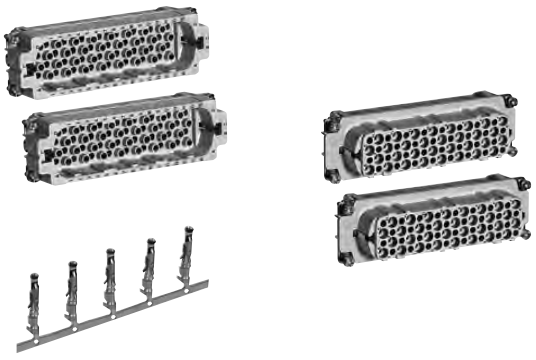


HD.128/HEE 92 contact inserts

INSERTS FOR H48B HOOD/HOUSING

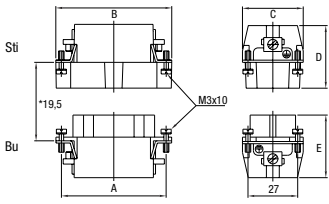
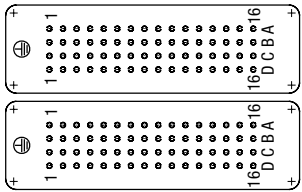
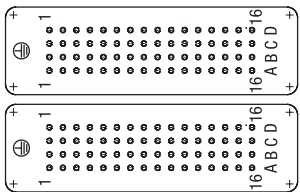
250V 10A

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

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

| Dimensions | A | B | C | D | E |
|------------|-----|-----|----|----|----|
| mm | 104 | 110 | 33 | 35 | 35 |

Suitable crimp contacts and crimping tools: see page 111


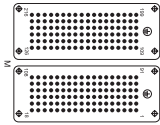

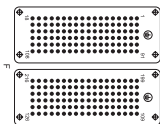
| Dimensions (mm) | Contact arrangement | |
|---|---|---|
| | Male insert | Female insert |
|  |  |  |

HDD-216 inserts

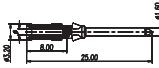



INSERTS FOR H48B HOOD/HOUSING

250V 10A

216 (2x108)+⊕ (machined contacts)

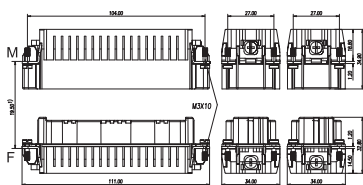
| Dimensions (mm) | | Type | Part Number | |
|---|---|--|--|--|
| | | | Male insert | Female insert |
| Crimp terminal (order crimp contacts separately) | Contact arrangement view from termination side | | | |
|  |  | HDD-108-M(1-108) HDD-108-M(109-216) | T 2 03 108 2101-000 T 2 03 216 2101-000 | |
|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

10A Contact

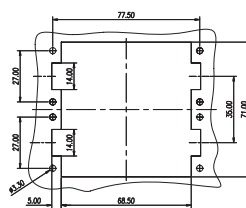
| Tech data Material: copper alloy Contact resistance: $\leq 3m\Omega$ Terminal: crimp connection CDM/Male | 10A Male crimp contacts  | Wire gauge | | Strip- ping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|--|---|-------|--------------------------|-------------------------------|---------------------|-------------------------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

Distance for contact max. 24mm

Crimp terminal


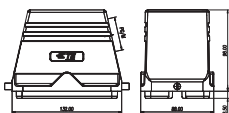

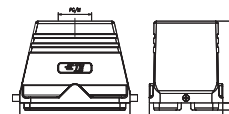

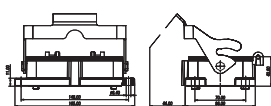

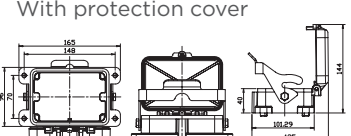

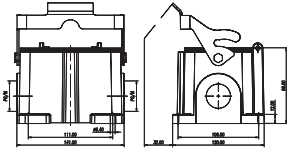

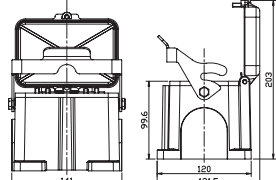


Panel cut-out for inserts for use without hoods/housings



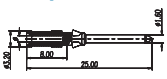


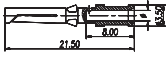
H48B hoods/housings

POWDER-COATED, RAL 7037





| Dimensions (mm) | | Metr. | PG | Type | Part Number |
|---|--|--------------------------|----------------------|--|---|
| Hood: Side entry | | | | | |
|  |  | 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 | 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 | | | | | |
|  |  | | | H48B-AG | T 1 50 048 2000-000 |
|  | With protection cover  | | | H48B-AD-LB | T 1 51 048 2000-000 |
| Surface mounted: Side entry | | | | | |
|  |  | M32 M40 M50 | PG29 PG36 PG42 | H48B-SGR-PG29 H48B-SGR-PG36 H48B-SGR-PG42 H48B-SGR-M32 H48B-SGR-M40 H48B-SGR-M50 | 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 |
| | | M32 M40 M50 | PG29 PG36 PG42 | H48B-SGR-2PG29 H48B-SGR-2PG36 H48B-SGR-2PG42 H48B-SGR-2M32 H48B-SGR-2M40 H48B-SGR-2M50 | 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 with cover | | | | | |
|  |  | M32 M40 M50 | PG29 PG36 PG42 | H48B-SDR-PG29 H48B-SDR-PG36 H48B-SDR-PG42 H48B-SDR-M32 H48B-SDR-M40 H48B-SDR-M50 | 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 |
| | | M32 M40 M50 | PG29 PG36 PG42 | H48B-SDR-2PG29 H48B-SDR-2PG36 H48B-SDR-2PG42 H48B-SDR-2M32 H48B-SDR-2M40 H48B-SDR-2M50 | T 1 62 048 0229-000 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

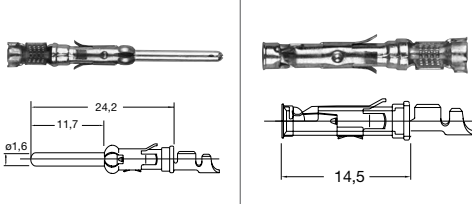
| Tech data Material: copper alloy Contact resistance: $\leq 3m\Omega$ Terminal: crimp connection CDM/Male | 10A Male crimp contacts  | Wire gauge | | Strip- ping length mm | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|-----------------|-------|--------------------------------|-------------------------------|---------------------|-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

Crimping tools HN.D series

| Description | | Type | Part Number |
|--|---|-----------------|---------------------|
| Crimp tool Wire range: 0.5-4.0mm ² Suitable for CDM/CDF and CEM/CEF contacts |  | CRIMPBOX-0.5/4 | T 3 10 000 0001-000 |
| Crimp tool Wire range: 0.14-4.0mm ² 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 alloy Finish: tin plated tin plated hard gold Contact resistance: $\leq 3m\Omega$ Crimp Terminal: 0.14-2.5 mm ² AWG: 26-14 | Description | | Type | Part Number | Dimensions (mm ²) |
|---|---|--------------------------------|---|--------------------------------|-------------------------------|
| | Pin contact | Socket contact | | | |
| |  | 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 | |
| Reel contact/pin tin plated | 0-0164161-9 0-0166824-2 | 0.5-1.5 1.5-2.5 | | | |
| Pin contact gold plated | 1-1105000-2 3-1105000-2 | 0.3-0.56 0.8-1.5 | | | |
| Reel contact/pin gold plated | 0-0164160-4 0-0164161-4 | 0.3-0.56 0.8-1.5 | | | |
| Socket contact tin plated | 1-1105001-3 2-1105001-3 4-1105001-3 | 0.3-0.56 0.5-1.5 1.5-2.5 | | | |
| Socket contact gold plated | 1-1105001-2 3-1105001-2 | 0.3-0.56 0.8-1.5 | | | |
| Reel contact/socket gold plated | 1-0163087-1 0-0163083-7 | 0.3-0.56 0.8-1.5 | | | |

| Type | Wire cross section | Stripping length |
|------|--------------------------|------------------|
| 1 | 0.2-0.56 mm ² | 3.5 mm |
| 2 | 0.5-1.5 mm ² | 3.5 mm |
| 3 | 0.8-1.5 mm ² | 3.5 mm |
| 4 | 1.5-2.5 mm ² | 3.5 mm |

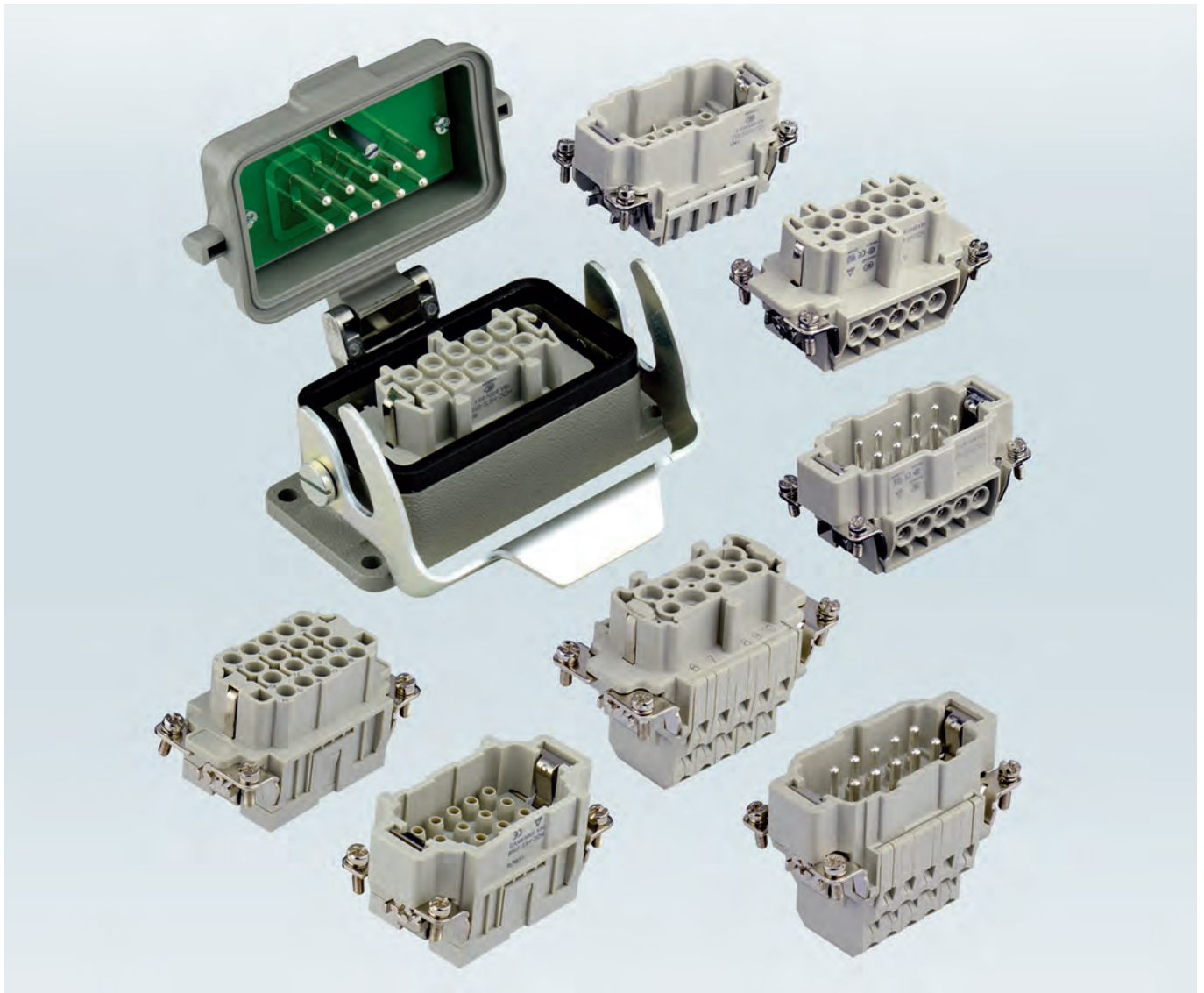
Crimping tools HD.M series

| Description | Designation | Part Number | Cross section (mm ²) |
|---------------------------------------|---------------|-------------|---|
| 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 | AWZG-HD.M-RSZ | 0-1102855-1 | all cross sections |
| Insertion tool | EWZG-RSZ | 0-1102855-6 | below 0.75mm ² |

Notes



HE, HEE, HEEE Series



1. 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



RoHS

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 |

INSERTS

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

CONTACTS

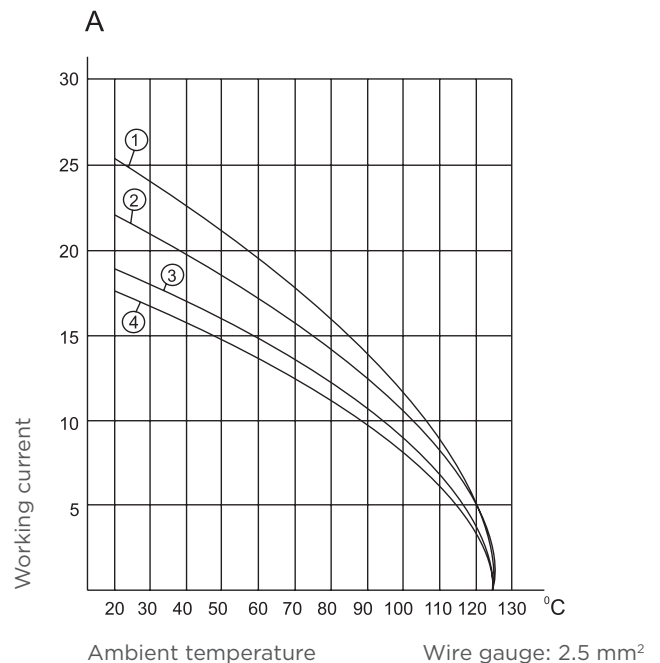
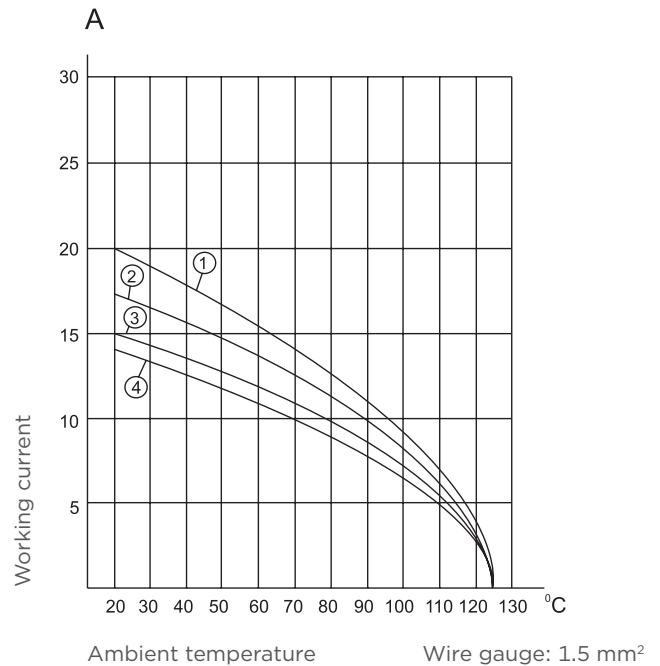
| | |
|--------------------------------|------------------------|
| Material | Copper alloy |
| Surface | Hard silver-plated |
| ..... | Hard gold-plated |
| Contact resistance | $\leq 1m\Omega$ |
| Terminal | |
| ..... | Crimp terminal |
| ..... | Screw terminal |
| ..... | Spring terminal |
| ..... | Double Spring terminal |
| -mm ² | |
| 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 DIN40 050..... | IP65 |

CURRENT CARRYING CAPACITY

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



- 1 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 |

INSERTS

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

CONTACTS

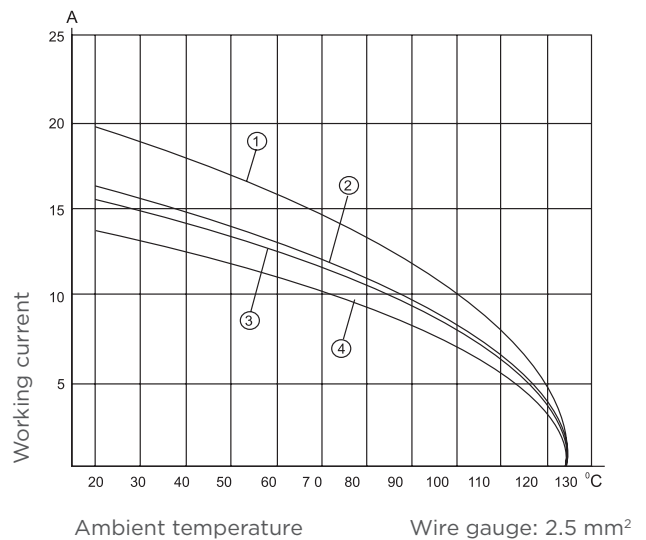
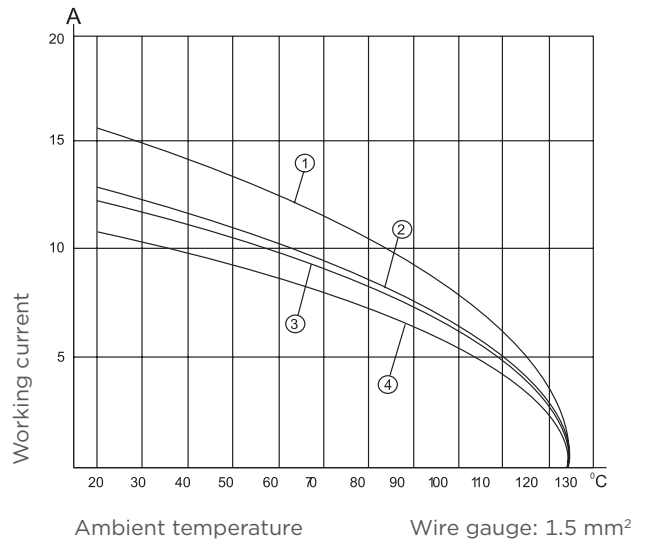
| | |
|--------------------------|-------------------------|
| Material | Copper alloy |
| Surface | Hard silver-plated |
| ..... | Hard gold-plated |
| Contact resistance | $\leq 1m\Omega$ |
| Terminal | Crimp terminal |
| - mm ² | 0.14-4.0mm ² |
| - AWG | 26-12 |

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 050..... | IP65 |

CURRENT CARRYING CAPACITY

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



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

HEEE technical characteristics

| | |
|--------------------------|------------------------------------|
| Specifications | DIN EN 60 664-1 |
| ..... | DIN EN 61 984 |
| Number of contacts | 20,32,40,48,64,72,80(2x40) |
| ..... | 96(2x48),128(2x64), 144(2x72) + PE |

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 | $\geq 10^{10}\Omega$ |
| Material | Polycarbonate |
| Temperature range..... | -40°C... +125°C |
| Flammability acc. to UL94 | V0 |
| Working voltage acc. to UL/CSA | 600V |
| Mechanical working life-mating cycles..... | ≥ 500 |

CONTACTS

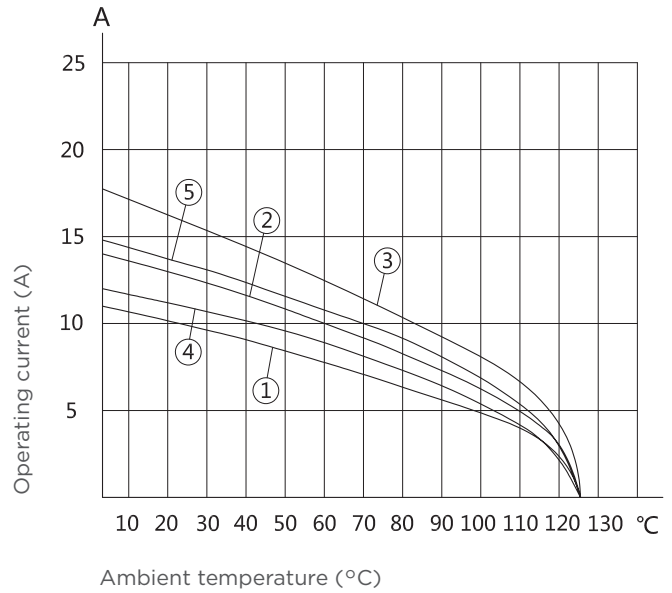
| | |
|--------------------------|-------------------------|
| Material | Copper alloy |
| Surface | Hard silver-plated |
| ..... | Hard gold-plated |
| Contact resistance | $\leq 5m\Omega$ |
| Terminal | Crimp terminal |
| - mm ² | 0.14-4.0mm ² |
| - AWG | 26-12 |

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 050..... | IP65 |

CURRENT CARRYING CAPACITY

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







- 1 HEEE-064 / 1.5 mm²
- 2 HEEE-064 / 2.5 mm²
- 3 HEEE-064 / 4.0 mm²
- 4 HEEE-040 / 1.5 mm²
- 5 HEEE-040 / 2.5 mm²

HE-006 inserts


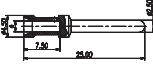

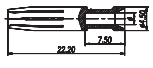
INSERTS FOR H6B HOOD/HOUSING

500V MAX. 16A

6+ 

| Dimension (mm) | Type | 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 | |
| | HE-006-FS | | T 2 04 006 3201-000 |
| Crimp terminal (Order crimp contacts separately) | | | |
|  | HE-006-MC | T 2 04 006 4101-000 | |
| | HE-006-FC | | T 2 04 006 4201-000 |
| Spring terminal (Two terminals per contact) | | | |
|  | HE-006-MSS | T 2 04 006 5101-000 | |
| | HE-006-FSS | | T 2 04 006 5201-000 |

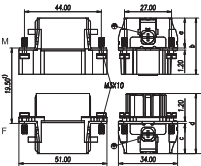
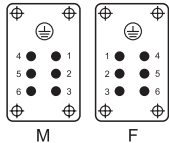
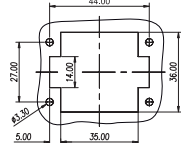
16A Contact

| Tech data Material: copper alloy Contact resistance: $\leq 1\text{m}\Omega$ Terminal: crimp connection CEM/Male  | 16A Male crimp contacts  | Wire gauge | | Stripping length mm | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|--|-----------------|---------|------------------------|-------------------------------|---------------------|-----------------------------|---------------------|
| | | mm ² | AWG | | Type | Part Number | Type | Part Number |
| CEF/Female  | 16A Female crimp contacts  | 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 |
| | | 0.5 | 20 | 7.5 | CEM-0.5 | T 2 03 000 1005-000 | DEM-0.5 | T 2 03 001 1005-000 |
| | | 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 |
| | | 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 |
| | | 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 |
| 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 | | |

Distance for contact max. 21mm

Contact arrangement view from termination side

Panel cut-out for inserts for use without hoods/housings


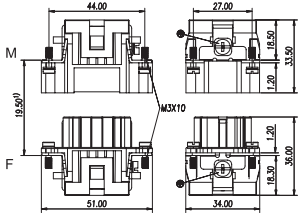
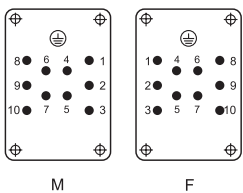
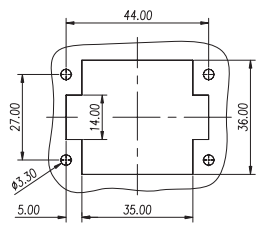
|  <table border="1"> <thead> <tr> <th></th> <th>a</th> <th>b</th> <th>c</th> <th>d</th> </tr> </thead> <tbody> <tr> <td>HE</td> <td>18</td> <td>33</td> <td>18</td> <td>35</td> </tr> <tr> <td>HES/HEC</td> <td>19</td> <td>34</td> <td>19</td> <td>36</td> </tr> <tr> <td>HESS</td> <td>34</td> <td>49</td> <td>32</td> <td>49</td> </tr> </tbody> </table> | | a | b | c | d | HE | 18 | 33 | 18 | 35 | HES/HEC | 19 | 34 | 19 | 36 | HESS | 34 | 49 | 32 | 49 |  |  |
|--|----|----|----|----|---|----|----|----|----|----|---------|----|----|----|----|------|----|----|----|----|---|---|
| | a | b | c | d | | | | | | | | | | | | | | | | | | |
| HE | 18 | 33 | 18 | 35 | | | | | | | | | | | | | | | | | | |
| HES/HEC | 19 | 34 | 19 | 36 | | | | | | | | | | | | | | | | | | |
| HESS | 34 | 49 | 32 | 49 | | | | | | | | | | | | | | | | | | |

HEE-010 inserts


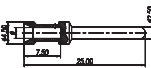

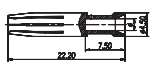
INSERTS FOR H6B HOOD/HOUSING

500V MAX. 16A

10+ 

| Dimensions (mm) | | Type | Part Number | |
|--|--|-----------|---------------------|---------------------|
| | | | Male insert | Female insert |
| Crimp terminal (order crimp contacts separately) | | | | |
|  |  | HEE-010-M | T 2 05 010 2101-000 | |
| | | 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  | | | |

16A Contact


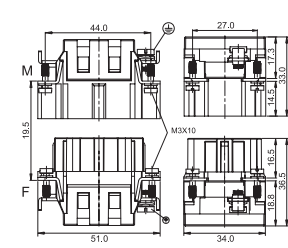
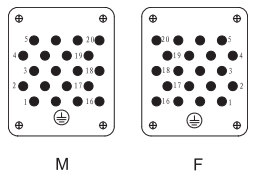
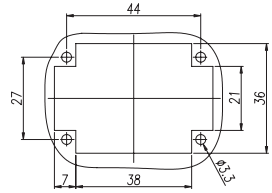
| Tech data Material: copper alloy Contact resistance: $\leq 1m\Omega$ Terminal: crimp connection CEM/Male  | 16A Male crimp contacts  | Wire gauge | | Strip- ping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|--|--|-----------------|-------|--------------------------|-------------------------------|---------------------|-----------------------------|---------------------|
| | | mm ² | AWG | | Type | Part Number | Type | Part Number |
| | | 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 |
| | | 0.5 | 20 | 7.5 | CEM-0.5 | T 2 03 000 1005-000 | DEM-0.5 | T 2 03 001 1005-000 |
| | | 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 crimp contacts  | 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 |
| | | 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 |
| | | 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 |

HEEE-020 inserts


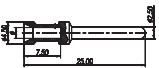

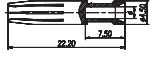
INSERTS FOR H6B HOOD/HOUSING

400V MAX. 16A

20+ Ⓢ

| Dimensions (mm) | | Type | Part Number | |
|--|--|------------|---------------------|---------------------|
| | | | Male insert | Female insert |
| Crimp terminal (order crimp contacts separately) | | | | |
|  |  | HEEE-020-M | T 2 05 020 2101-000 | |
| | | 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  | | | |

16A Contact

| Tech data | 16A Male crimp contacts | Wire gauge | | Strip-ping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|--|---|-------------------|-------------------------------|---------------------|-----------------------------|---------------------|
| | | mm ² | AWG | | Type | Part Number | Type | Part Number |
| Material: copper alloy Contact resistance: ≤1mΩ Terminal: crimp connection CEM/Male  |  | 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 |
| | | 0.5 | 20 | 7.5 | CEM-0.5 | T 2 03 000 1005-000 | DEM-0.5 | T 2 03 001 1005-000 |
| | | 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 crimp contacts  | 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 |
| 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 | |
| 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 | |




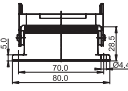

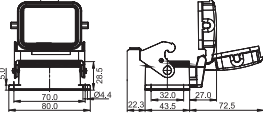

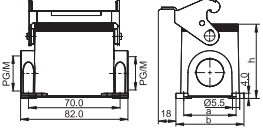

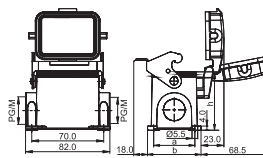
H6B with 1 lever on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | Metr. | PG | Type | Part Number | | | | | | |
|--|-------------------|--------------|---|---|------|------|------------|----------------------|--|--|
| Hood: Side entry | | | | | | | | | | |
|  <p>Low construction</p>  | 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 | | | | | | |
|  <p>High construction</p>  | 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 | | | | | | | | | | |
|  <p>Low construction</p>  | 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 | | | | | | |
|  <p>High construction</p>  | 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 | | | | | | | | | | |
|   <table border="1" data-bbox="531 1373 751 1467"> <thead> <tr> <th>Construction</th> <th>H</th> </tr> </thead> <tbody> <tr> <td>Low</td> <td>62.5</td> </tr> <tr> <td>High</td> <td>74.5</td> </tr> </tbody> </table> | Construction | H | Low | 62.5 | High | 74.5 | M20 M25 | 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 |
| Construction | H | | | | | | | | | |
| Low | 62.5 | | | | | | | | | |
| High | 74.5 | | | | | | | | | |
| Protection covers for hoods | | | | | | | | | | |
|   | | | H6B-KDTP | T 1 01 006 1400-000 | | | | | | |

H6B with 1 lever on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | Metr. | PG | Type | Part Number | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|--------------|--------------|--|--|-----|----|----|----|-------|----|----|----|--|------------------|--------------|-----|--------------|--|--|--------------|------------|-------------------|--------------|------------|--------------|--|--|--------------|------------|--|--------------|-----|--------------|--|--|--------------|------------|--|--------------|-----|--------------|--|--|--------------|------------|
| Bulkhead mounted | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  | | H6B-AGS | T 1 50 006 2000-000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | With protection cover  | | H6B-ADS | T 1 51 006 2100-000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Surface mounted: Side entry | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  <table border="1" data-bbox="347 1144 703 1238"> <thead> <tr> <th>Construction</th> <th>A</th> <th>B</th> <th>H</th> </tr> </thead> <tbody> <tr> <td>Low</td> <td>40</td> <td>52</td> <td>56</td> </tr> <tr> <td>Hight</td> <td>45</td> <td>57</td> <td>74</td> </tr> </tbody> </table> | Construction | A | B | H | Low | 40 | 52 | 56 | Hight | 45 | 57 | 74 | <table border="0"> <tr> <td rowspan="2">Low construction</td> <td>1 Side entry</td> <td>M20</td> <td rowspan="2">PG16 PG21</td> <td rowspan="2">H6B-SGRS-PG16 H6B-SGRS-PG21 H6B-SGRS-M20 H6B-SGRS-M25</td> <td rowspan="2">T 1 61 006 2116-000 T 1 61 006 2121-000 T 1 61 006 2120-000 T 1 61 006 2125-000</td> </tr> <tr> <td>2 Side entry</td> <td>M20 M25</td> </tr> <tr> <td rowspan="2">High construction</td> <td>1 Side entry</td> <td>M20 M25</td> <td rowspan="2">PG16 PG21</td> <td rowspan="2">H6B-SGRS-2PG16 H6B-SGRS-2PG21 H6B-SGRS-2M20 H6B-SGRS-2M25</td> <td rowspan="2">T 1 61 006 2216-000 T 1 61 006 2221-000 T 1 61 006 2220-000 T 1 61 006 2225-000</td> </tr> <tr> <td>2 Side entry</td> <td>M25 M32</td> </tr> <tr> <td rowspan="2"></td> <td>1 Side entry</td> <td>M25</td> <td rowspan="2">PG21 PG29</td> <td rowspan="2">H6B-SGRHS-PG21 H6B-SGRHS-PG29 H6B-SGRHS-M25 H6B-SGRHS-M32</td> <td rowspan="2">T 1 65 006 2121-000 T 1 65 006 2129-000 T 1 65 006 2125-000 T 1 65 006 2132-000</td> </tr> <tr> <td>2 Side entry</td> <td>M25 M32</td> </tr> <tr> <td rowspan="2"></td> <td>1 Side entry</td> <td>M25</td> <td rowspan="2">PG21 PG29</td> <td rowspan="2">H6B-SGRHS-2PG21 H6B-SGRHS-2PG29 H6B-SGRHS-2M25 H6B-SGRHS-2M32</td> <td rowspan="2">T 1 65 006 2221-000 T 1 65 006 2229-000 T 1 65 006 2225-000 T 1 65 006 2232-000</td> </tr> <tr> <td>2 Side entry</td> <td>M25 M32</td> </tr> </table> | Low construction | 1 Side entry | M20 | PG16 PG21 | H6B-SGRS-PG16 H6B-SGRS-PG21 H6B-SGRS-M20 H6B-SGRS-M25 | T 1 61 006 2116-000 T 1 61 006 2121-000 T 1 61 006 2120-000 T 1 61 006 2125-000 | 2 Side entry | M20 M25 | High construction | 1 Side entry | M20 M25 | PG16 PG21 | H6B-SGRS-2PG16 H6B-SGRS-2PG21 H6B-SGRS-2M20 H6B-SGRS-2M25 | T 1 61 006 2216-000 T 1 61 006 2221-000 T 1 61 006 2220-000 T 1 61 006 2225-000 | 2 Side entry | M25 M32 | | 1 Side entry | M25 | PG21 PG29 | H6B-SGRHS-PG21 H6B-SGRHS-PG29 H6B-SGRHS-M25 H6B-SGRHS-M32 | T 1 65 006 2121-000 T 1 65 006 2129-000 T 1 65 006 2125-000 T 1 65 006 2132-000 | 2 Side entry | M25 M32 | | 1 Side entry | M25 | PG21 PG29 | H6B-SGRHS-2PG21 H6B-SGRHS-2PG29 H6B-SGRHS-2M25 H6B-SGRHS-2M32 | T 1 65 006 2221-000 T 1 65 006 2229-000 T 1 65 006 2225-000 T 1 65 006 2232-000 | 2 Side entry | M25 M32 |
| Construction | A | B | H | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Low | 40 | 52 | 56 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hight | 45 | 57 | 74 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Low construction | 1 Side entry | M20 | PG16 PG21 | H6B-SGRS-PG16 H6B-SGRS-PG21 H6B-SGRS-M20 H6B-SGRS-M25 | T 1 61 006 2116-000 T 1 61 006 2121-000 T 1 61 006 2120-000 T 1 61 006 2125-000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 Side entry | M20 M25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| High construction | 1 Side entry | M20 M25 | PG16 PG21 | H6B-SGRS-2PG16 H6B-SGRS-2PG21 H6B-SGRS-2M20 H6B-SGRS-2M25 | T 1 61 006 2216-000 T 1 61 006 2221-000 T 1 61 006 2220-000 T 1 61 006 2225-000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 Side entry | M25 M32 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 Side entry | M25 | PG21 PG29 | H6B-SGRHS-PG21 H6B-SGRHS-PG29 H6B-SGRHS-M25 H6B-SGRHS-M32 | T 1 65 006 2121-000 T 1 65 006 2129-000 T 1 65 006 2125-000 T 1 65 006 2132-000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 Side entry | M25 M32 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 Side entry | M25 | PG21 PG29 | H6B-SGRHS-2PG21 H6B-SGRHS-2PG29 H6B-SGRHS-2M25 H6B-SGRHS-2M32 | T 1 65 006 2221-000 T 1 65 006 2229-000 T 1 65 006 2225-000 T 1 65 006 2232-000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 Side entry | M25 M32 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | With protection cover  <table border="1" data-bbox="347 1559 703 1653"> <thead> <tr> <th>Construction</th> <th>A</th> <th>B</th> <th>H</th> </tr> </thead> <tbody> <tr> <td>Low</td> <td>40</td> <td>52</td> <td>56</td> </tr> <tr> <td>Hight</td> <td>45</td> <td>57</td> <td>74</td> </tr> </tbody> </table> | Construction | A | B | H | Low | 40 | 52 | 56 | Hight | 45 | 57 | 74 | <table border="0"> <tr> <td rowspan="2">Low construction</td> <td>1 Side entry</td> <td>M20</td> <td rowspan="2">PG16 PG21</td> <td rowspan="2">H6B-SDRS-PG16 H6B-SDRS-PG21 H6B-SDRS-M20 H6B-SDRS-M25</td> <td rowspan="2">T 1 62 006 2116-000 T 1 62 006 2121-000 T 1 62 006 2120-000 T 1 62 006 2125-000</td> </tr> <tr> <td>2 Side entry</td> <td>M20 M25</td> </tr> <tr> <td rowspan="2">High construction</td> <td>1 Side entry</td> <td>M20 M25</td> <td rowspan="2">PG16 PG21</td> <td rowspan="2">H6B-SDRS-2PG16 H6B-SDRS-2PG21 H6B-SDRS-2M20 H6B-SDRS-2M25</td> <td rowspan="2">T 1 62 006 2216-000 T 1 62 006 2221-000 T 1 62 006 2220-000 T 1 62 006 2225-000</td> </tr> <tr> <td>2 Side entry</td> <td>M25 M32</td> </tr> <tr> <td rowspan="2"></td> <td>1 Side entry</td> <td>M25</td> <td rowspan="2">PG21 PG29</td> <td rowspan="2">H6B-SDRHS-PG21 H6B-SDRHS-PG29 H6B-SDRHS-M25 H6B-SDRHS-M32</td> <td rowspan="2">T 1 66 006 2121-000 T 1 66 006 2129-000 T 1 66 006 2125-000 T 1 66 006 2132-000</td> </tr> <tr> <td>2 Side entry</td> <td>M25 M32</td> </tr> <tr> <td rowspan="2"></td> <td>1 Side entry</td> <td>M25</td> <td rowspan="2">PG21 PG29</td> <td rowspan="2">H6B-SDRHS-2PG21 H6B-SDRHS-2PG29 H6B-SDRHS-2M25 H6B-SDRHS-2M32</td> <td rowspan="2">T 1 66 006 2221-000 T 1 66 006 2229-000 T 1 66 006 2225-000 T 1 66 006 2232-000</td> </tr> <tr> <td>2 Side entry</td> <td>M25 M32</td> </tr> </table> | Low construction | 1 Side entry | M20 | PG16 PG21 | H6B-SDRS-PG16 H6B-SDRS-PG21 H6B-SDRS-M20 H6B-SDRS-M25 | T 1 62 006 2116-000 T 1 62 006 2121-000 T 1 62 006 2120-000 T 1 62 006 2125-000 | 2 Side entry | M20 M25 | High construction | 1 Side entry | M20 M25 | PG16 PG21 | H6B-SDRS-2PG16 H6B-SDRS-2PG21 H6B-SDRS-2M20 H6B-SDRS-2M25 | T 1 62 006 2216-000 T 1 62 006 2221-000 T 1 62 006 2220-000 T 1 62 006 2225-000 | 2 Side entry | M25 M32 | | 1 Side entry | M25 | PG21 PG29 | H6B-SDRHS-PG21 H6B-SDRHS-PG29 H6B-SDRHS-M25 H6B-SDRHS-M32 | T 1 66 006 2121-000 T 1 66 006 2129-000 T 1 66 006 2125-000 T 1 66 006 2132-000 | 2 Side entry | M25 M32 | | 1 Side entry | M25 | PG21 PG29 | H6B-SDRHS-2PG21 H6B-SDRHS-2PG29 H6B-SDRHS-2M25 H6B-SDRHS-2M32 | T 1 66 006 2221-000 T 1 66 006 2229-000 T 1 66 006 2225-000 T 1 66 006 2232-000 | 2 Side entry | M25 M32 |
| Construction | A | B | H | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Low | 40 | 52 | 56 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hight | 45 | 57 | 74 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Low construction | 1 Side entry | M20 | PG16 PG21 | H6B-SDRS-PG16 H6B-SDRS-PG21 H6B-SDRS-M20 H6B-SDRS-M25 | T 1 62 006 2116-000 T 1 62 006 2121-000 T 1 62 006 2120-000 T 1 62 006 2125-000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 Side entry | M20 M25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| High construction | 1 Side entry | M20 M25 | PG16 PG21 | H6B-SDRS-2PG16 H6B-SDRS-2PG21 H6B-SDRS-2M20 H6B-SDRS-2M25 | T 1 62 006 2216-000 T 1 62 006 2221-000 T 1 62 006 2220-000 T 1 62 006 2225-000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 Side entry | M25 M32 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 Side entry | M25 | PG21 PG29 | H6B-SDRHS-PG21 H6B-SDRHS-PG29 H6B-SDRHS-M25 H6B-SDRHS-M32 | T 1 66 006 2121-000 T 1 66 006 2129-000 T 1 66 006 2125-000 T 1 66 006 2132-000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 Side entry | M25 M32 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 Side entry | M25 | PG21 PG29 | H6B-SDRHS-2PG21 H6B-SDRHS-2PG29 H6B-SDRHS-2M25 H6B-SDRHS-2M32 | T 1 66 006 2221-000 T 1 66 006 2229-000 T 1 66 006 2225-000 T 1 66 006 2232-000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 Side entry | M25 M32 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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


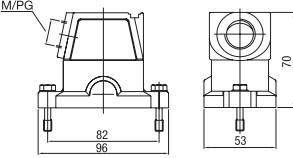

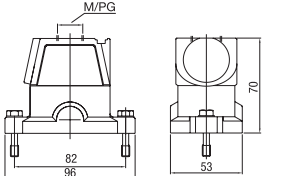

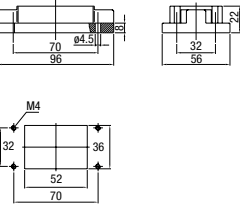

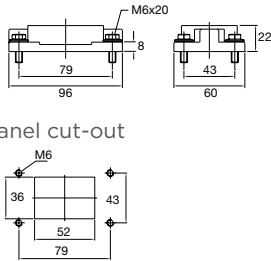
HIP: Pressure-tight, silver-grey

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 |
|---|---|------------|---|--|
| Hood: Side entry | | | | |
|  |  | M25 | 16 | HIP HIP.6/16.STS.1.16.G HIP.6/16.STS.1.M25.G 1-1102631-5 0-1106425-2 |
| | | 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 |
| | | 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 | | | | |
|  |  | | | HIP HIP.6/16.AG 1-1102638-5 |
| | | | | HIP-K HIP-K.6/16.AG 2-1102638-5 |
| | | | | EMV-K EMV-K.6/16.AG 4-1102710-5 |
|  |  | | | HIP HIP.6/16.AG.M6 1-1102606-5 |
| | | | | HIP-K HIP-K.6/16.AG.M6 2-1102606-5 |
| | | | | EMV-K EMV-K.6/16.AG.M6 4-1102712-5 |

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


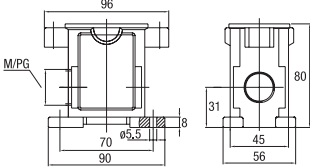
HIP: Pressure-tight, silver-grey

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


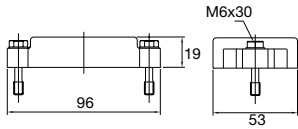
EMV-K: Protection against electro-magnetic interference, pressure-tight, housings corrosion-resistant, black

Screw lock on hood

IP 68 / IP 69 K

| Description | Metr. | PG | Type | Part Number |
|---|---|----------------|--|--|
| Surface mounted housing: Side entry | | | | |
|  |  | 2xM32 | 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 |
| | | 2xM25 2xM32 | 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 |
| | | 2xM25 2xM32 | 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





| | | | | |
|---|---|--|--------------------------------------|-------------|
|  |  | | HIP HIP/EMV.6/16.SKB | 3-1106201-5 |
| | | | HIP-K HIP-K/EMV-K.6/16.SKB | 4-1106201-5 |
| | | | EMV-K HIP-K/EMV-K.6/16.SKB | 4-1106201-5 |

HE-010 inserts


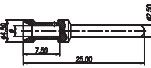

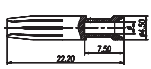
INSERTS FOR H10B HOOD/HOUSING

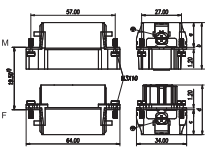
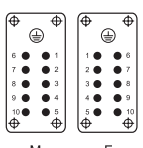
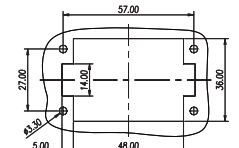
500V MAX. 16A

10+

| Dimension (mm) | Type | Part Number | |
|---|------------|---------------------|---------------------|
| | | Male insert | Female insert |
| Screw terminal | | | |
|  | HE-010-M | T 2 04 010 2101-000 | |
| | HE-010-F | | T 2 04 010 2201-000 |
| Spring terminal | | | |
|  | HE-010-MS | T 2 04 010 3101-000 | |
| | HE-010-FS | | T 2 04 010 3201-000 |
| Crimp terminal (Order crimp contacts separately) | | | |
|  | HE-010-MC | T 2 04 010 4101-000 | |
| | HE-010-FC | | T 2 04 010 4201-000 |
| Spring terminal (Two terminals per contact) | | | |
|  | HE-010-MSS | T 2 04 010 5101-000 | |
| | HE-010-FSS | | T 2 04 010 5201-000 |

16A Contact

| Tech data Material: copper alloy Contact resistance: $\leq 1\text{m}\Omega$ Terminal: crimp connection CEM/Male  | 16A Male crimp contacts  | Wire gauge | | Strip- ping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | | | |
|---|---|---|---|--------------------------|-------------------------------|---------------------|-----------------------------|---------------------|-------------|---------------------|
| | | mm ² | AWG | | mm | Type | Part Number | Type | Part Number | |
| | | 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 | | |
| | | 0.5 | 20 | 7.5 | CEM-0.5 | T 2 03 000 1005-000 | DEM-0.5 | T 2 03 001 1005-000 | | |
| | | 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 crimp contacts  | 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 |
| | | | | 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 |
| 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 | | |


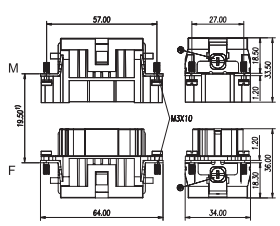
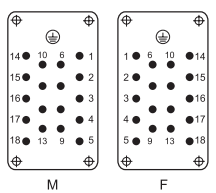
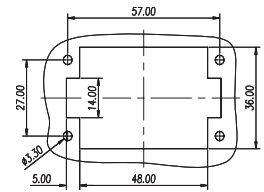
| Distance for contact max. 21mm | Contact arrangement view from termination side | Panel cut-out for inserts for use without hoods/housings | | | | | | | | | | | | | | | | | | | | |
|--|--|--|----|----|---|----|----|----|----|----|---------|----|----|----|----|------|----|----|----|----|---|---|
|  <table border="1"> <thead> <tr> <th></th> <th>a</th> <th>b</th> <th>c</th> <th>d</th> </tr> </thead> <tbody> <tr> <td>HE</td> <td>18</td> <td>33</td> <td>18</td> <td>35</td> </tr> <tr> <td>HES/HEC</td> <td>19</td> <td>34</td> <td>19</td> <td>36</td> </tr> <tr> <td>HESS</td> <td>34</td> <td>49</td> <td>32</td> <td>49</td> </tr> </tbody> </table> | | a | b | c | d | HE | 18 | 33 | 18 | 35 | HES/HEC | 19 | 34 | 19 | 36 | HESS | 34 | 49 | 32 | 49 |  |  |
| | a | b | c | d | | | | | | | | | | | | | | | | | | |
| HE | 18 | 33 | 18 | 35 | | | | | | | | | | | | | | | | | | |
| HES/HEC | 19 | 34 | 19 | 36 | | | | | | | | | | | | | | | | | | |
| HESS | 34 | 49 | 32 | 49 | | | | | | | | | | | | | | | | | | |

HEE-018 inserts


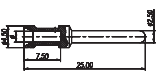

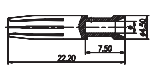
INSERTS FOR H10B HOOD/HOUSING

500V MAX. 16A

18+ 

| Dimensions (mm) | Type | Part Number | |
|--|--|-------------|---------------------|
| | | Male insert | Female insert |
| Crimp terminal (order crimp contacts separately) | | | |
|  |  | HEE-018-M | T 2 05 018 2101-000 |
| | | HEE-018-F | T 2 05 018 2201-000 |
| <p>Contact arrangement view from termination side</p>  | <p>Panel cut out for inserts for use without hoods/housings</p>  | | |

16A Contact


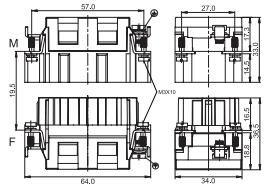
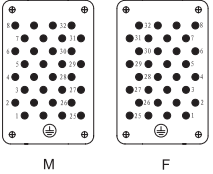
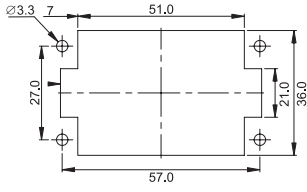
| Tech data | 16A Male crimp contacts | Wire gauge | | Strip-ping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|-----------------|-------|-------------------|-------------------------------|---------------------|-----------------------------|---------------------|
| | | mm ² | AWG | | Type | Part Number | Type | Part Number |
| Material: copper alloy Contact resistance: $\leq 1m\Omega$ Terminal: crimp connection CEM/Male  |  | 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 |
| | | 0.5 | 20 | 7.5 | CEM-0.5 | T 2 03 000 1005-000 | DEM-0.5 | T 2 03 001 1005-000 |
| | | 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 crimp contacts  | 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 |
| | | 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 |
| | | 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 |

HEEE-032 inserts


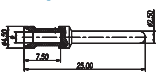

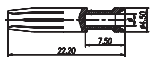
INSERTS FOR H10B HOOD/HOUSING

400V MAX. 16A

32+ 





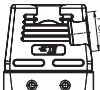





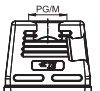


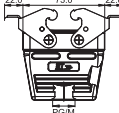
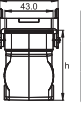

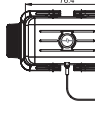
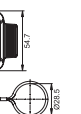



| Dimensions (mm) | | Type | Part Number | | |
|--|--|--|-------------|-----------------------------------|-----------------------------------|
| | | | Male insert | Female insert | |
| Crimp terminal (order crimp contacts separately) | | | | | |
|  | |  | | HEEE-032-M T 2 05 032 3101-000 | HEEE-032-F T 2 05 032 3201-000 |
| Contact arrangement view from termination side | | Panel cut out for inserts for use without hoods/housings | | | |
|  | |  | | | |

16A Contact

| Tech data | 16A Male crimp contacts | Wire gauge | | Strip-ping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | | | |
|---|---|--|---|-------------------|-------------------------------|---------------------|-----------------------------|---------------------|----------|---------------------|
| | | mm ² | AWG | | Type | Part Number | Type | Part Number | | |
| Material: copper alloy Contact resistance: ≤1mΩ Terminal: crimp connection CEM/Male  |  | 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 | | |
| | | 0.5 | 20 | 7.5 | CEM-0.5 | T 2 03 000 1005-000 | DEM-0.5 | T 2 03 001 1005-000 | | |
| | | 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 crimp contacts  | 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 |
| | | | | 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 |
| 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 | | |


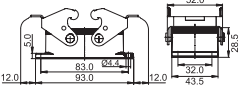

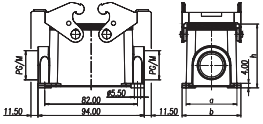

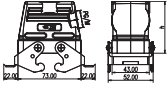

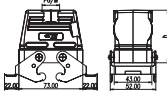




H10B with 2 levers on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | Metr. | PG | Type | Part Number | | | | | | |
|--|-------------------|--------------|--|---|------|------|------------------------------|--------------------------|---|---|
| Hood: Side entry | | | | | | | | | | |
|  <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>73.0</p> </div> <div style="text-align: center;">  <p>43.0</p> </div> </div> | 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 | | | | | | |
|  <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>73.0</p> </div> <div style="text-align: center;">  <p>43.0</p> </div> </div> | 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 | | | | | | | | | | |
|  <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>73.0</p> </div> <div style="text-align: center;">  <p>43.0</p> </div> </div> | 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 | | | | | | |
|  <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>73.0</p> </div> <div style="text-align: center;">  <p>43.0</p> </div> </div> | 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 hood | | | | | | | | | | |
|  <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>73.0</p> </div> <div style="text-align: center;">  <p>43.0</p> </div> </div> <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Construction</th> <th>H</th> </tr> </thead> <tbody> <tr> <td>Low</td> <td>62.5</td> </tr> <tr> <td>High</td> <td>74.5</td> </tr> </tbody> </table> | Construction | H | Low | 62.5 | High | 74.5 | M20 M25 M25 M32 | PG16 PG21 PG29 | H10B-TBFS-PG16 H10B-TBFS-M20 H10B-TBFS-M25 H10B-TBFHS-PG21 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 |
| Construction | H | | | | | | | | | |
| Low | 62.5 | | | | | | | | | |
| High | 74.5 | | | | | | | | | |
| Protection covers for hoods | | | | | | | | | | |
|  <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>76.4</p> </div> <div style="text-align: center;">  <p>43.0</p> </div> </div> | | | H10B-KDTP | T 1 01 010 1400-000 | | | | | | |
| Housing protection cover | | | | | | | | | | |
|  <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>76.5</p> </div> <div style="text-align: center;">  <p>43.0</p> </div> </div> | | | H10B-KDBP | T 1 01 010 2100-000 | | | | | | |


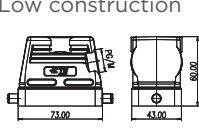

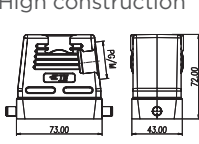

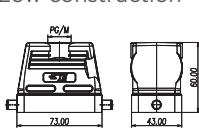

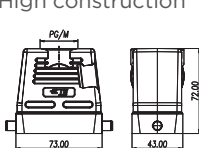

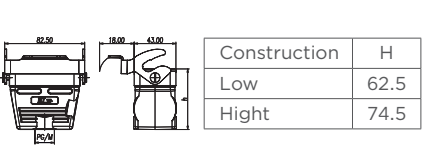

H10B with 2 levers on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | Metr. | PG | Type | Part Number | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--------------|----|----------|---------------------|-------|----|---|------------------------------|--|--|----|----|---|--|--|--|-------|----|----|----|----|----|----|----|---|--|--|---|
| Bulkhead mounted | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|   | | | H10B-AGS | T 1 41 010 1000-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| Surface mounted: Side entry | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|   <table border="1" data-bbox="316 869 675 958"> <thead> <tr> <th>Construction</th> <th>A</th> <th>B</th> <th>H</th> </tr> </thead> <tbody> <tr> <td>Low</td> <td>40</td> <td>52</td> <td>56</td> </tr> <tr> <td>Hight</td> <td>45</td> <td>57</td> <td>74</td> </tr> </tbody> </table> | Construction | A | B | H | Low | 40 | 52 | 56 | Hight | 45 | 57 | 74 | Low construction 1 Side entry M20 M25 High construction 1 Side entry M25 M32 2 Side entry M25 M32 | PG16 PG21 PG16 PG21 PG21 PG29 PG21 PG29 | H10B-SGRS-PG16 H10B-SGRS-PG21 H10B-SGRS-M20 H10B-SGRS-M25 H10B-SGRS-2PG16 H10B-SGRS-2PG21 H10B-SGRS-2M20 H10B-SGRS-2M25 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 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 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 | | | | | | | | | | | | |
| Construction | A | B | H | | | | | | | | | | | | | | | | | | | | | | | | | |
| Low | 40 | 52 | 56 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hight | 45 | 57 | 74 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Side entry housing with two levers | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|   <table border="1" data-bbox="316 1182 515 1261"> <thead> <tr> <th>Construction</th> <th>H</th> </tr> </thead> <tbody> <tr> <td>Low</td> <td>60</td> </tr> <tr> <td>Hight</td> <td>72</td> </tr> </tbody> </table> | Construction | H | Low | 60 | Hight | 72 | Low construction M20 M25 High construction M25 M32 | PG16 PG21 PG21 PG29 | H10B-TSBS-PG16 H10B-TSBS-PG21 H10B-TSBS-M20 H10B-TSBS-M25 H10B-TSBHS-PG21 H10B-TSBHS-PG29 H10B-TSBHS-M25 H10B-TSBHS-M32 | T 1 25 010 3116-000 T 1 25 010 3121-000 T 1 25 010 3120-000 T 1 25 010 3125-000 T 1 27 010 3121-000 T 1 27 010 3129-000 T 1 27 010 3125-000 T 1 27 010 3132-000 | | | | | | | | | | | | | | | | | | |
| Construction | H | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Low | 60 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hight | 72 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Top entry housing with two levers | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|   <table border="1" data-bbox="316 1440 515 1518"> <thead> <tr> <th>Construction</th> <th>H</th> </tr> </thead> <tbody> <tr> <td>Low</td> <td>60</td> </tr> <tr> <td>Hight</td> <td>72</td> </tr> </tbody> </table> | Construction | H | Low | 60 | Hight | 72 | Low construction M20 M25 High construction 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 | | | | | | | | | | | | | | | | | | |
| Construction | H | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Low | 60 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hight | 72 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bulkhead mounted with 4 bolts | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|     <table border="1" data-bbox="316 1944 699 2022"> <thead> <tr> <th>Construction</th> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>F</th> <th>G</th> <th>H</th> </tr> </thead> <tbody> <tr> <td>Low</td> <td>82</td> <td>94</td> <td>40</td> <td>52</td> <td>22</td> <td>67</td> <td>54</td> </tr> <tr> <td>Hight</td> <td>82</td> <td>94</td> <td>45</td> <td>57</td> <td>20</td> <td>65</td> <td>74</td> </tr> </tbody> </table> | Construction | A | B | C | D | F | G | H | Low | 82 | 94 | 40 | 52 | 22 | 67 | 54 | Hight | 82 | 94 | 45 | 57 | 20 | 65 | 74 | Low construction 1 Side entry M20 M25 High construction 1 Side entry M25 M32 2 Side entry M25 M32 | PG16 PG21 PG16 PG21 PG21 PG29 PG21 PG29 | H10B-AD-BO 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 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 43 010 0000-000 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 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 |
| Construction | A | B | C | D | F | G | H | | | | | | | | | | | | | | | | | | | | | |
| Low | 82 | 94 | 40 | 52 | 22 | 67 | 54 | | | | | | | | | | | | | | | | | | | | | |
| Hight | 82 | 94 | 45 | 57 | 20 | 65 | 74 | | | | | | | | | | | | | | | | | | | | | |

H10B with 1 lever on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | Metr. | PG | Type | Part Number | | | | | | |
|---|---|-------------------|---|---|------|-------|------|------------------------------|--|---|
| Hood: Side entry | | | | | | | | | | |
|  |  | 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 | | | | | | |
|  |  | 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 | | | | | | | | | | |
|  |  | 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 | | | | | | |
|  |  | 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 hood | | | | | | | | | | |
|  |  <table border="1" data-bbox="534 1406 750 1500"> <thead> <tr> <th>Construction</th> <th>H</th> </tr> </thead> <tbody> <tr> <td>Low</td> <td>62.5</td> </tr> <tr> <td>Hight</td> <td>74.5</td> </tr> </tbody> </table> | 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 |
| Construction | H | | | | | | | | | |
| Low | 62.5 | | | | | | | | | |
| Hight | 74.5 | | | | | | | | | |
| Protection covers for hoods | | | | | | | | | | |
|  | | | H10B-KDTP-LB | T 1 01 010 1500-000 | | | | | | |

H10B with 1 lever on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | | Metr. | PG | Type | Part Number | | | | | | | | | | | | |
|-----------------------------|--|--------------|----|---------------------------|--|-----|----|----|----|-------|----|----|----|---|--|--|--|
| Bulkhead mounted | | | | | | | | | | | | | | | | | |
| | | | | 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 | | | | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th>Construction</th> <th>A</th> <th>B</th> <th>H</th> </tr> </thead> <tbody> <tr> <td>Low</td> <td>40</td> <td>52</td> <td>54</td> </tr> <tr> <td>Hight</td> <td>45</td> <td>57</td> <td>74</td> </tr> </tbody> </table> | Construction | A | B | H | Low | 40 | 52 | 54 | Hight | 45 | 57 | 74 | 1 Side entry Low construction M20 M25 2 Side entry M20 M25 High construction M25 M32 1 Side entry M25 M32 | PG16 PG21 PG16 PG21 PG21 PG29 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-PG29 H10B-SGRH-LB-M25 H10B-SGRH-LB-M32 H10B-SGRH-LB-2PG21 H10B-SGRH-LB-2PG29 H10B-SGRH-LB-2M25 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 3220-000 T 1 61 010 3225-000 T 1 65 010 3121-000 T 1 65 010 3129-000 T 1 65 010 3125-000 T 1 65 010 3132-000 T 1 65 010 3221-000 T 1 65 010 3229-000 T 1 65 010 3225-000 T 1 65 010 3232-000 |
| Construction | A | B | H | | | | | | | | | | | | | | |
| Low | 40 | 52 | 54 | | | | | | | | | | | | | | |
| Hight | 45 | 57 | 74 | | | | | | | | | | | | | | |
| | With protection cover <table border="1"> <thead> <tr> <th>Construction</th> <th>A</th> <th>B</th> <th>H</th> </tr> </thead> <tbody> <tr> <td>Low</td> <td>40</td> <td>52</td> <td>54</td> </tr> <tr> <td>Hight</td> <td>45</td> <td>57</td> <td>74</td> </tr> </tbody> </table> | Construction | A | B | H | Low | 40 | 52 | 54 | Hight | 45 | 57 | 74 | 1 Side entry Low construction M20 M25 2 Side entry M20 M25 High construction M25 M32 1 Side entry M25 M32 | PG16 PG21 PG16 PG21 PG21 PG29 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-M32 H10B-SDRH-LB-2PG21 H10B-SDRH-LB-2PG29 H10B-SDRH-LB-2M25 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 3220-000 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 3132-000 T 1 66 010 3221-000 T 1 66 010 3229-000 T 1 66 010 3225-000 T 1 66 010 3232-000 |
| Construction | A | B | H | | | | | | | | | | | | | | |
| Low | 40 | 52 | 54 | | | | | | | | | | | | | | |
| Hight | 45 | 57 | 74 | | | | | | | | | | | | | | |

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


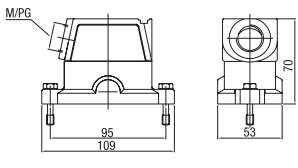

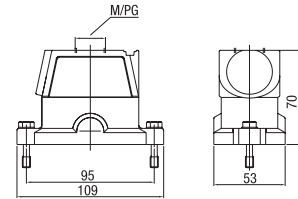

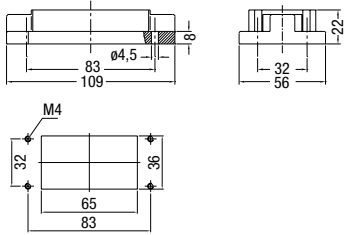
HIP: Pressure-tight, silver-grey

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 | Type | 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 |
| | | 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 |
| | | 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 | | | | |
|  |  | M25 | 16 21 | HIP HIP.10/24.STO.1.16.G HIP.10/24.STO.1.21.G HIP.10/24.STO.1.M25.G 1-1102644-5 1-1102646-5 0-1106436-1 |
| | | M25 M32 | 16 | 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 2-1102644-5 0-1106436-3 0-1106436-5 |
| | | M25 | 21 | EMV-K 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 | | | | |
|  |  | | | 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


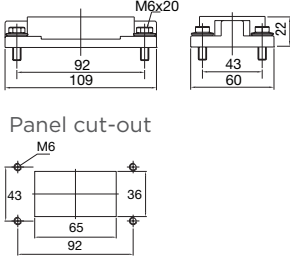




HIP: Pressure-tight, silver-grey

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 |
|---|-------|------------|--|--|
| Surface mounted housing: Bottom entry | | | | |
|   | | | 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 | | | | |
|   | 2xM32 | 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.M32.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 | | | | |
|   | | | HIP HIP/EMV.10/24.SKB HIP-K/EMV-K HIP-K/EMV-K.10/24.SKB | 3-1106202-5 4-1106202-5 |

HE-016 inserts


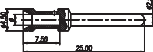


INSERTS FOR H16B HOOD/HOUSING

500V MAX. 16A

16+ 

| Dimension (mm) | Type | Part Number | |
|---|------------|---------------------|---------------------|
| | | Male insert | Female insert |
| Screw terminal | | | |
|  | HE-016-M | T 2 04 016 2101-000 | |
| | HE-016-F | | T 2 04 016 2201-000 |
| Spring terminal | | | |
|  | HE-016-MS | T 2 04 016 3101-000 | |
| | HE-016-FS | | T 2 04 016 3201-000 |
| Crimp terminal (Order crimp contacts separately) | | | |
|  | HE-016-MC | T 2 04 016 4101-000 | |
| | HE-016-FC | | T 2 04 016 4201-000 |
| Spring terminal (Two terminals per contact) | | | |
|  | HE-016-MSS | T 2 04 016 5101-000 | |
| | HE-016-FSS | | T 2 04 016 5201-000 |

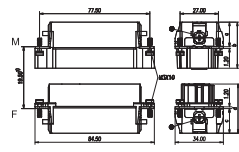
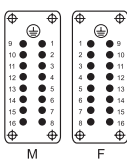
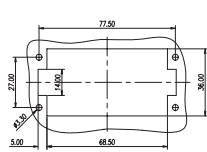
16A Contact

| Tech data Material: copper alloy Contact resistance: $\leq 1\text{m}\Omega$ Terminal: crimp connection CEM/Male  | 16A Male crimp contacts  | Wire gauge | | Strip-ping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|--|-----------------|---------|---------------------|-------------------------------|---------------------|-----------------------------|---------------------|
| | | mm ² | AWG | | mm | Type | Part Number | Type | Part Number |
| CEF/Female  | 16A Female crimp contacts  | 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 |
| | | 0.5 | 20 | 7.5 | CEM-0.5 | T 2 03 000 1005-000 | DEM-0.5 | T 2 03 001 1005-000 |
| | | 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 |
| | | 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 |
| | | 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 |
| 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 | | |

Distance for contact max. 21mm

Contact arrangement view from termination side

Panel cut-out for inserts for use without hoods/housings


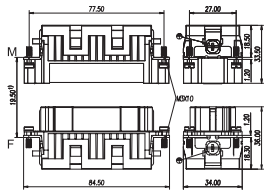
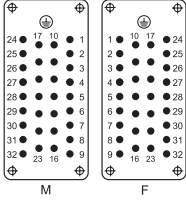
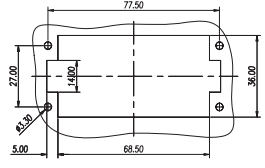
|  <table border="1"> <thead> <tr> <th></th> <th>a</th> <th>b</th> <th>c</th> <th>d</th> </tr> </thead> <tbody> <tr> <td>HE</td> <td>18</td> <td>33</td> <td>18</td> <td>35</td> </tr> <tr> <td>HES/HEC</td> <td>19</td> <td>34</td> <td>19</td> <td>36</td> </tr> <tr> <td>HESS</td> <td>34</td> <td>49</td> <td>32</td> <td>49</td> </tr> </tbody> </table> | | a | b | c | d | HE | 18 | 33 | 18 | 35 | HES/HEC | 19 | 34 | 19 | 36 | HESS | 34 | 49 | 32 | 49 |  |  |
|--|----|----|----|----|---|----|----|----|----|----|---------|----|----|----|----|------|----|----|----|----|---|---|
| | a | b | c | d | | | | | | | | | | | | | | | | | | |
| HE | 18 | 33 | 18 | 35 | | | | | | | | | | | | | | | | | | |
| HES/HEC | 19 | 34 | 19 | 36 | | | | | | | | | | | | | | | | | | |
| HESS | 34 | 49 | 32 | 49 | | | | | | | | | | | | | | | | | | |

HEE-032 inserts


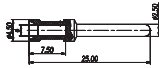

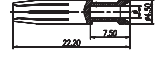
INSERTS FOR H16B HOOD/HOUSING

500V MAX. 16A

32+⊕

| Dimensions (mm) | Type | Part Number | |
|--|---|-------------|---------------------|
| | | Male insert | Female insert |
| Crimp terminal (order crimp contacts separately) | | | |
|  |  | HEE-032-M | T 2 05 032 2101-000 |
| | | 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 | | |
|  |  | | |

16A Contact


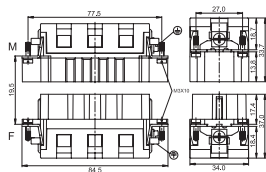
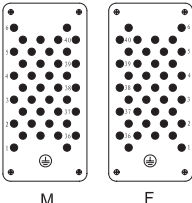
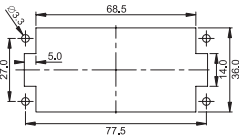
| Tech data | 16A Male crimp contacts | Wire gauge | | Strip-ping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | | | |
|--|---|---|---|-------------------|-------------------------------|---------------------|-----------------------------|---------------------|----------|---------------------|
| | | mm ² | AWG | | Type | Part Number | Type | Part Number | | |
| Material: copper alloy Contact resistance: ≤1mΩ Terminal: crimp connection CEM/Male  |  | 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 | | |
| | | 0.5 | 20 | 7.5 | CEM-0.5 | T 2 03 000 1005-000 | DEM-0.5 | T 2 03 001 1005-000 | | |
| | | 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  |  | 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 |
| | | | | 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 |
| 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 | | |

HEEE-040 inserts


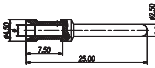


INSERTS FOR H16B HOOD/HOUSING

500V MAX. 16A

40+ 

| Dimensions (mm) | Type | Part Number | |
|--|---|-------------|---------------------|
| | | Male insert | Female insert |
| Crimp terminal (order crimp contacts separately) | | | |
|  |  | HEEE-040-M | T 2 05 040 2101-000 |
| | | 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  | | |

16A Contact


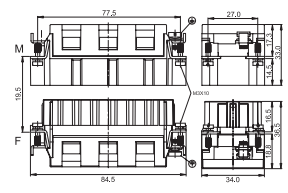
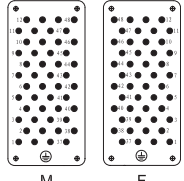
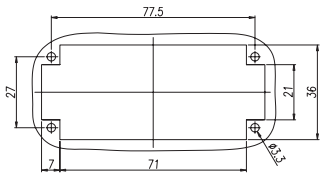
| Tech data Material: copper alloy Contact resistance: $\leq 1\text{m}\Omega$ Terminal: crimp connection CEM/Male  | 16A Male crimp contacts  | Wire gauge | | Strip- ping length mm | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|--|-----------------|-------|--------------------------------|-------------------------------|---------------------|-----------------------------|---------------------|
| | | mm ² | AWG | | Type | Part Number | Type | Part Number |
| | | 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 |
| | | 0.5 | 20 | 7.5 | CEM-0.5 | T 2 03 000 1005-000 | DEM-0.5 | T 2 03 001 1005-000 |
| | | 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 crimp contacts  | 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 |
| | | 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 |
| | | 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 |

HEEE-048 inserts


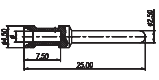

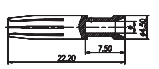
INSERTS FOR H16B HOOD/HOUSING

400V MAX. 16A

48+


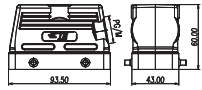

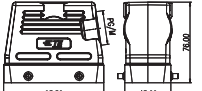

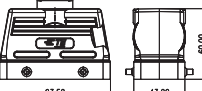

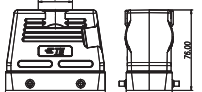

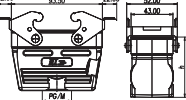

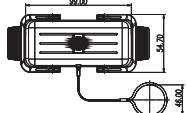

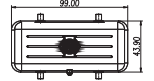
| Dimensions (mm) | | Type | Part Number | |
|--|--|------------|---------------------|---------------------|
| | | | Male insert | Female insert |
| Crimp terminal (order crimp contacts separately) | | | | |
|  |  | HEEE-048-F | T 2 05 048 2101-000 | |
| | | HEEE-048-F | | T 2 05 048 2201-000 |
| Contact arrangement view from termination side | Panel cut out for inserts for use without hoods/housings | | | |
|  |  | | | |

16A Contact

| Tech data | 16A Male crimp contacts | Wire gauge | | Stripping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|--|---|-----------------|-------|------------------|-------------------------------|---------------------|-----------------------------|---------------------|
| | | mm ² | AWG | | Type | Part Number | Type | Part Number |
| Material: copper alloy Contact resistance: ≤1mΩ Terminal: crimp connection CEM/Male  |  | 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 |
| | | 0.5 | 20 | 7.5 | CEM-0.5 | T 2 03 000 1005-000 | DEM-0.5 | T 2 03 001 1005-000 |
| | | 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 crimp contacts  | 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 |
| | | 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 |
| | | 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 |


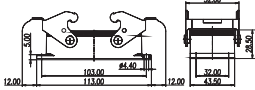

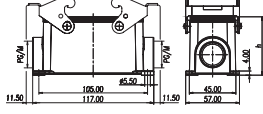

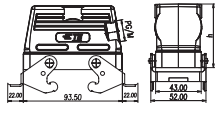

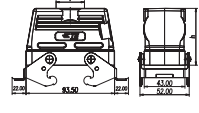

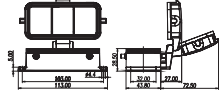
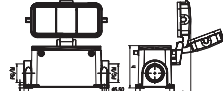
H16B with 2 levers on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | | Metr. | PG | Type | 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 | | | | | | | | | | | |
|  | 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 hood | | | | | | | | | | | |
|  |  <table border="1" data-bbox="533 1348 737 1438"> <thead> <tr> <th>Construction</th> <th>H</th> </tr> </thead> <tbody> <tr> <td>Low</td> <td>62.5</td> </tr> <tr> <td>High</td> <td>74.5</td> </tr> </tbody> </table> | Construction | H | Low | 62.5 | High | 74.5 | M25 M32 | PG21 | H16B-TBFS-PG21 H16B-TBFS-M25 H16B-TBFS-M32 | T 1 71 016 1121-000 T 1 71 016 1125-000 T 1 71 016 1132-000 |
| Construction | H | | | | | | | | | | |
| Low | 62.5 | | | | | | | | | | |
| High | 74.5 | | | | | | | | | | |
| | | M25 M32 M40 | PG21 PG29 | H16B-TBFHS-PG21 H16B-TBFHS-PG29 H16B-TBFHS-M25 H16B-TBFHS-M32 H16B-TBFHS-M40 | 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 for hoods | | | | | | | | | | | |
|  |  | | | H16B-KDTP | T 1 01 016 1400-000 | | | | | | |
| Housing protection cover | | | | | | | | | | | |
|  |  | | | H16B-KDBP | T 1 01 016 2100-000 | | | | | | |


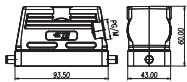

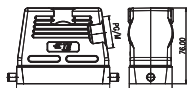

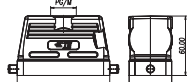

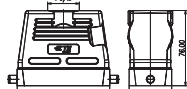

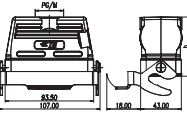

H16B with 2 levers on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | | Metr. | PG | Type | Part Number | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--------------|----|----------|---------------------|------|----|--|--|--|--|-----|----|----|----|----|----|------|-----|-----|----|----|----|----|----|--|--|--|---|
| Bulkhead mounted | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  | | | H16B-AGS | T 1 41 016 1000-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| Surface mounted: Side entry | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  <table border="1" data-bbox="319 862 534 952"> <tr> <td>Construction</td> <td>H</td> </tr> <tr> <td>Low</td> <td>56</td> </tr> <tr> <td>High</td> <td>81</td> </tr> </table> | Construction | H | Low | 56 | High | 81 | 1 Side entry Low construction M25 M25 High construction M25 M32 2 Side entry Low construction M25 M32 High construction M25 M32 | PG21 PG21 PG21 PG29 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 1132-000 T 1 47 016 1221-000 T 1 47 016 1229-000 T 1 47 016 1225-000 T 1 47 016 1232-000 | | | | | | | | | | | | | | | | | | |
| Construction | H | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Low | 56 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| High | 81 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Side entry housing with two levers | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  <table border="1" data-bbox="319 1198 534 1288"> <tr> <td>Construction</td> <td>H</td> </tr> <tr> <td>Low</td> <td>60</td> </tr> <tr> <td>High</td> <td>76</td> </tr> </table> | Construction | H | Low | 60 | High | 76 | Low construction M20 M25 High construction 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 | | | | | | | | | | | | | | | | | | |
| Construction | H | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Low | 60 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| High | 76 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Top entry housing with two levers | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  <table border="1" data-bbox="319 1500 534 1590"> <tr> <td>Construction</td> <td>H</td> </tr> <tr> <td>Low</td> <td>60</td> </tr> <tr> <td>High</td> <td>76</td> </tr> </table> | Construction | H | Low | 60 | High | 76 | Low construction M20 M25 High construction 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 | | | | | | | | | | | | | | | | | | |
| Construction | H | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Low | 60 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| High | 76 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bulkhead mounted with 4 bolts | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | With protection cover   <table border="1" data-bbox="311 1937 694 2016"> <tr> <td>Construction</td> <td>A</td> <td>B</td> <td>C</td> <td>D</td> <td>F</td> <td>G</td> <td>H</td> </tr> <tr> <td>Low</td> <td>105</td> <td>117</td> <td>45</td> <td>57</td> <td>20</td> <td>65</td> <td>56</td> </tr> <tr> <td>High</td> <td>105</td> <td>117</td> <td>45</td> <td>57</td> <td>20</td> <td>65</td> <td>81</td> </tr> </table> | Construction | A | B | C | D | F | G | H | Low | 105 | 117 | 45 | 57 | 20 | 65 | 56 | High | 105 | 117 | 45 | 57 | 20 | 65 | 81 | 1 Side entry Low construction M25 M25 High construction M25 M32 2 Side entry Low construction M25 M32 High construction M25 M32 | PG21 PG21 PG21 PG29 PG21 PG29 | H16B-AD-BO H16B-SDR-BO-PG21 H16B-SDR-BO-M25 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 46 016 0225-000 T 1 49 016 0121-000 T 1 49 016 0129-000 T 1 49 016 0125-000 T 1 49 016 0132-000 T 1 49 016 0221-000 T 1 49 016 0229-000 T 1 49 016 0225-000 T 1 49 016 0232-000 |
| Construction | A | B | C | D | F | G | H | | | | | | | | | | | | | | | | | | | | | | |
| Low | 105 | 117 | 45 | 57 | 20 | 65 | 56 | | | | | | | | | | | | | | | | | | | | | | |
| High | 105 | 117 | 45 | 57 | 20 | 65 | 81 | | | | | | | | | | | | | | | | | | | | | | |


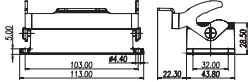

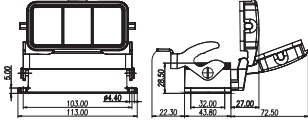

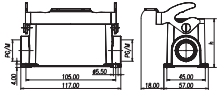

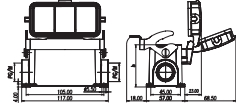
H16B with 1 lever on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | | Metr. | PG | Type | Part Number | | | | | | |
|---|---|-------------------|--------------|---|---|-------|------|--|--------------|---|--|
| Hood: Side entry | | | | | | | | | | | |
|  | <p>Low construction</p>  | 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 | | | | | | |
|  | <p>High construction</p>  | 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 | | | | | | | | | | | |
|  | <p>Low construction</p>  | 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 | | | | | | |
|  | <p>High construction</p>  | 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 hood | | | | | | | | | | | |
|  |  <table border="1" data-bbox="534 1355 758 1447"> <thead> <tr> <th>Construction</th> <th>H</th> </tr> </thead> <tbody> <tr> <td>Low</td> <td>62.5</td> </tr> <tr> <td>Hight</td> <td>74.5</td> </tr> </tbody> </table> | Construction | H | Low | 62.5 | Hight | 74.5 | <div style="display: flex; flex-direction: column; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: 8px;">Low construction</div> <div style="margin: 5px 0;">M25 M32</div> <div style="writing-mode: vertical-rl; font-size: 8px;">High construction</div> <div style="margin: 5px 0;">M25 M32 M40</div> </div> | PG21 PG29 | <div style="display: flex; flex-direction: column;"> <div style="margin-bottom: 10px;"> H16B-TBF-LB-PG21 H16B-TBF-LB-PG29 H16B-TBF-LB-M25 H16B-TBF-LB-M32 </div> <div> H16B-TBFH-LB-PG21 H16B-TBFH-LB-PG29 H16B-TBFH-LB-M25 H16B-TBFH-LB-M32 H16B-TBFH-LB-M40 </div> </div> | <div style="display: flex; flex-direction: column;"> <div style="margin-bottom: 10px;"> T 1 73 016 3121-000 T 1 73 016 3129-000 T 1 73 016 3125-000 T 1 73 016 3132-000 </div> <div> 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 </div> </div> |
| Construction | H | | | | | | | | | | |
| Low | 62.5 | | | | | | | | | | |
| Hight | 74.5 | | | | | | | | | | |
| Protection covers for hoods | | | | | | | | | | | |
|  | | | | H16B-KDTP-LB | T 1 01 016 1500-000 | | | | | | |

H16B with 1 lever on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | Metr. | PG | Type | Part Number | | | | | | |
|--|--------------|----|------------|---------------------|------|----|---|--|--|--|
| Bulkhead mounted | | | | | | | | | | |
|   | | | H16B-AG-LB | T 1 50 016 3000-000 | | | | | | |
|   | | | H16B-AD-LB | T 1 51 016 3000-000 | | | | | | |
| Surface mounted: Side entry | | | | | | | | | | |
|   <table border="1" data-bbox="325 1151 542 1240"> <tr> <td>Construction</td> <td>H</td> </tr> <tr> <td>Low</td> <td>56</td> </tr> <tr> <td>High</td> <td>81</td> </tr> </table> | Construction | H | Low | 56 | High | 81 | Low construction 1 Side entry M20 M25 High construction 1 Side entry M20 M25 2 Side entry 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-PG21 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 | 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 3220-000 T 1 61 016 3225-000 T 1 65 016 3121-000 T 1 65 016 3129-000 T 1 65 016 3125-000 T 1 65 016 3132-000 T 1 65 016 3221-000 T 1 65 016 3229-000 T 1 65 016 3225-000 T 1 65 016 3232-000 |
| Construction | H | | | | | | | | | |
| Low | 56 | | | | | | | | | |
| High | 81 | | | | | | | | | |
|   <table border="1" data-bbox="325 1568 542 1657"> <tr> <td>Construction</td> <td>H</td> </tr> <tr> <td>Low</td> <td>56</td> </tr> <tr> <td>High</td> <td>81</td> </tr> </table> | Construction | H | Low | 56 | High | 81 | Low construction 1 Side entry M20 M25 High construction 1 Side entry M25 M32 2 Side entry 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-M25 H16B-SDRH-LB-M32 H16B-SDRH-LB-2PG21 H16B-SDRH-LB-2PG29 H16B-SDRH-LB-2M25 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 3220-000 T 1 62 016 3225-000 T 1 66 016 3121-000 T 1 66 016 3129-000 T 1 66 016 3125-000 T 1 66 016 3132-000 T 1 66 016 3221-000 T 1 66 016 3229-000 T 1 66 016 3225-000 T 1 66 016 3232-000 |
| Construction | H | | | | | | | | | |
| Low | 56 | | | | | | | | | |
| High | 81 | | | | | | | | | |

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


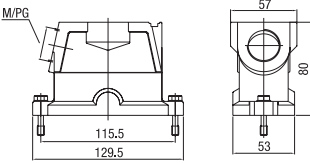

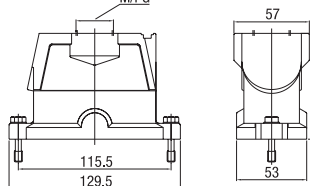

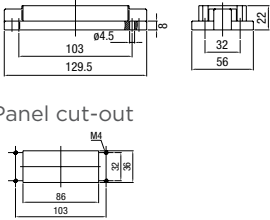

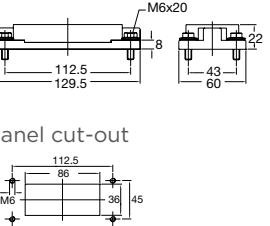
HIP: Pressure-tight, silver-grey

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 | |
|---|--|-----|---|---|---|
| Hood: Side entry | | | | | |
|  |  | M32 | 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 |
| | | 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 |
| Hood: Top entry | | | | | |
|  |  | M32 | 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 | |
| | | 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 | | | | | |
|  |  <p>Panel cut-out</p> | | HIP HIP.16/40.AG | 1-1102656-5 | |
| | | | HIP-K HIP-K.16/40.AG | 2-1102656-5 | |
| | | | EMV-K EMV-K.16/40.AG | 4-1102728-5 | |
|  |  <p>Panel cut-out</p> | | HIP HIP.16/40.AG.M6 | 1-1102618-5 | |
| | | | HIP-K HIP-K.16/40.AG.M6 | 2-1102618-5 | |
| | | | 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 | Type | Part Number |
|---|-------|------------|---------------------------------------|-------------|
| Surface mounted housing: Side entry | | | | |
|  | 2xM32 | 21 2x21 | HIP HIP.16/40.SG.1.21.G | 1-1102616-5 |
| | | | HIP.16/40.SG.2.21.G | 1-1102617-5 |
| | | | HIP.16/40.SG.2.M32.G | 0-1106453-1 |
| | 2xM32 | 21 2x21 | HIP-K HIP-K.16/40.SG.1.21.G | 5-1102616-5 |
| | | | HIP-K.16/40.SG.2.21.G | 2-1102617-5 |
| | | | HIP-K.16/40.SG.2.M32.G | 0-1106443-1 |
| | 2xM32 | 21 2x21 | EMV-K EMV-K.16/40.SG.1.21.Z | 4-1102726-5 |
| | | | EMV-K.16/40.SG.2.21.Z | 4-1102727-5 |
| | | | EMV-K.16/40.SG.2.M32.G | 0-1106445-2 |
| Protective covers for housings | | | | |
|  | | | HIP HIP/EMV.16/40.SKB | 3-1106203-5 |
| | | | HIP-K HIP-K.16/40.SKB | 4-1106203-5 |

HE-024 inserts


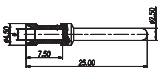

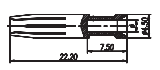
INSERTS FOR H24B HOOD/HOUSING

500V MAX. 16A

24+⊕

| Dimension (mm) | Type | Part Number | |
|---|------------|---------------------|---------------------|
| | | Male insert | Female insert |
| Screw terminal | | | |
|  | HE-024-M | T 2 04 024 2101-000 | |
| | 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 separately) | | | |
|  | HE-024-MC | T 2 04 024 4101-000 | |
| | HE-024-FC | | T 2 04 024 4201-000 |
| Spring terminal (Two terminals per contact) | | | |
|  | HE-024-MSS | T 2 04 024 5101-000 | |
| | HE-024-FSS | | T 2 04 024 5201-000 |

16A Contact


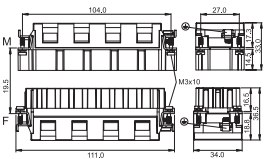
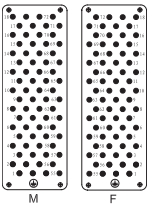
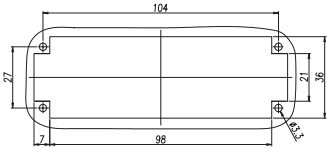
| Tech data Material: copper alloy Contact resistance: $\leq 1m\Omega$ Terminal: crimp connection CEM/Male  | 16A Male crimp contacts  | Wire gauge | | Strip-ping length mm | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|--|--|-----------------|-------|-------------------------|-------------------------------|---------------------|-----------------------------|---------------------|
| | | mm ² | AWG | | Type | Part Number | Type | Part Number |
| | | 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 |
| | | 0.5 | 20 | 7.5 | CEM-0.5 | T 2 03 000 1005-000 | DEM-0.5 | T 2 03 001 1005-000 |
| | | 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 crimp contacts  | 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 |
| | | 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 |
| | | 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 |

HEEE-072 inserts

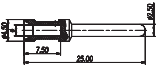


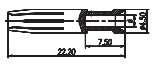
INSERTS FOR H24B HOOD/HOUSING

400V MAX. 16A

72+ Ⓢ


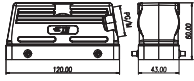

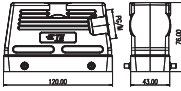

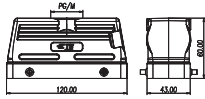

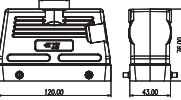

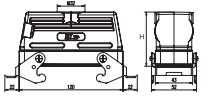

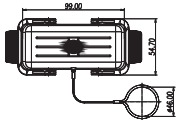

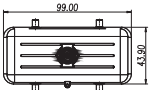
| Dimensions (mm) | Type | Part Number | |
|--|--|-------------|---------------------|
| | | Male insert | Female insert |
| Crimp terminal (order crimp contacts separately) | | | |
|  |  | HEEE-072-M | T 2 05 072 2101-000 |
| | | HEEE-072-F | T 2 05 072 2201-000 |
| Contact arrangement view from termination side | Panel cut out for inserts for use without hoods/housings | | |
|  |  | | |

16A Contact

| Tech data Material: copper alloy Contact resistance: ≤1mΩ Terminal: crimp connection CEM/Male | 16A Male crimp contacts  | Wire gauge | | Strip-ping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|--|---|-----------|-------------------|-------------------------------|---------------------|-----------------------------|---------------------|
| | | mm ² | AWG | | Type | Part Number | Type | Part Number |
| | |  | | | | | | |
| CEF/Female  | 16A Female crimp contacts  | 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 |
| | | 0.5 | 20 | 7.5 | CEM-0.5 | T 2 03 000 1005-000 | DEM-0.5 | T 2 03 001 1005-000 |
| | | 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 |
| | | | 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 |
| | | 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 |
| | | 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 |


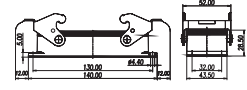

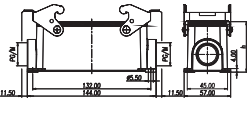

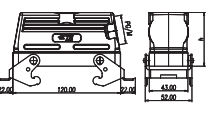

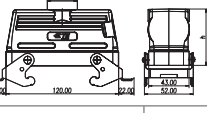

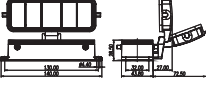

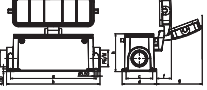
H24B with 2 levers on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | | Metr. | PG | Type | 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 hood | | | | | | | | | | | |
|  |  <table border="1" data-bbox="536 1361 756 1456"> <thead> <tr> <th>Construction</th> <th>H</th> </tr> </thead> <tbody> <tr> <td>Low</td> <td>62.5</td> </tr> <tr> <td>High</td> <td>78.5</td> </tr> </tbody> </table> | Construction | H | Low | 62.5 | High | 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 |
| Construction | H | | | | | | | | | | |
| Low | 62.5 | | | | | | | | | | |
| High | 78.5 | | | | | | | | | | |
| Protection covers for hoods | | | | | | | | | | | |
|  |  | | | H24B-KDTP | T 1 01 024 1400-000 | | | | | | |
| Housing protection cover | | | | | | | | | | | |
|  |  | | | H24B-KDBP | T 1 01 024 2100-000 | | | | | | |


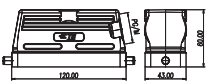

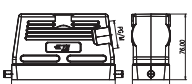

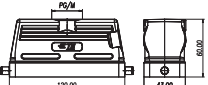

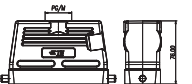

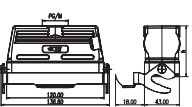

H24B with 2 levers on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | | Metr. | PG | Type | Part Number | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|--|--|---|------|----|--|--|--|--|-----|----|----|----|----|----|------|-----|-----|----|----|----|----|----|--|--|--|
| Bulkhead mounted | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  | | | H24B-AGS | T 1 41 024 1000-000 | | | | | | | | | | | | | | | | | | | | | | | |
| Surface mounted: Side entry | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  <table border="1" data-bbox="319 851 534 952"> <tr> <td>Construction</td> <td>H</td> </tr> <tr> <td>Low</td> <td>56</td> </tr> <tr> <td>High</td> <td>81</td> </tr> </table> | Construction | H | Low | 56 | High | 81 | 1 Side entry Low construction M25 2 Side entry Low construction M25 1 Side entry High construction M25 M32 2 Side entry High construction M25 M32 | PG21 PG21 PG21 PG29 PG21 PG29 PG21 PG29 | H24B-SGRS-PG21 H24B-SGRS-M25 H24B-SGRS-2PG21 H24B-SGRS-2M25 H24B-SGRHS-PG21 H24B-SGRHS-PG29 H24B-SGRHS-M25 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 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 | | | | | | | | | | | | | | | | | |
| Construction | H | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Low | 56 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| High | 81 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Side entry housing with two levers | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  <table border="1" data-bbox="319 1187 534 1288"> <tr> <td>Construction</td> <td>H</td> </tr> <tr> <td>Low</td> <td>60</td> </tr> <tr> <td>High</td> <td>76</td> </tr> </table> | Construction | H | Low | 60 | High | 76 | Low construction M20 M25 High construction 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 | | | | | | | | | | | | | | | | | |
| Construction | H | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Low | 60 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| High | 76 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Top entry housing with two levers | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  <table border="1" data-bbox="319 1467 534 1556"> <tr> <td>Construction</td> <td>H</td> </tr> <tr> <td>Low</td> <td>60</td> </tr> <tr> <td>High</td> <td>76</td> </tr> </table> | Construction | H | Low | 60 | High | 76 | Low construction M20 M25 High construction 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 3129-000 T 1 28 024 3125-000 T 1 28 024 3132-000 | | | | | | | | | | | | | | | | | |
| Construction | H | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Low | 60 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| High | 76 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bulkhead mounted with 4 bolts | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | With protection cover  | 1 Side entry Low construction M25 2 Side entry Low construction M25 1 Side entry High construction M25 M32 2 Side entry High construction M25 M32 | PG21 PG21 PG21 PG29 PG21 PG29 | H24B-AD-BO H24B-SDR-BO-PG21 H24B-SDR-BO-M25 H24B-SDR-BO-2PG21 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-2PG29 H24B-SDRH-BO-2M25 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 0129-000 T 1 49 024 0125-000 T 1 49 024 0132-000 T 1 49 024 0221-000 T 1 49 024 0229-000 T 1 49 024 0225-000 T 1 49 024 0232-000 | | | | | | | | | | | | | | | | | | | | | | | |
|  |  <table border="1" data-bbox="303 1904 686 1982"> <tr> <td>Construction</td> <td>A</td> <td>B</td> <td>C</td> <td>D</td> <td>F</td> <td>G</td> <td>H</td> </tr> <tr> <td>Low</td> <td>132</td> <td>144</td> <td>45</td> <td>57</td> <td>20</td> <td>65</td> <td>56</td> </tr> <tr> <td>High</td> <td>132</td> <td>144</td> <td>45</td> <td>57</td> <td>20</td> <td>65</td> <td>81</td> </tr> </table> | Construction | A | B | C | D | F | G | H | Low | 132 | 144 | 45 | 57 | 20 | 65 | 56 | High | 132 | 144 | 45 | 57 | 20 | 65 | 81 | | | |
| Construction | A | B | C | D | F | G | H | | | | | | | | | | | | | | | | | | | | | |
| Low | 132 | 144 | 45 | 57 | 20 | 65 | 56 | | | | | | | | | | | | | | | | | | | | | |
| High | 132 | 144 | 45 | 57 | 20 | 65 | 81 | | | | | | | | | | | | | | | | | | | | | |


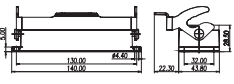

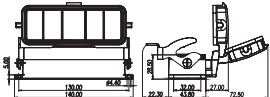

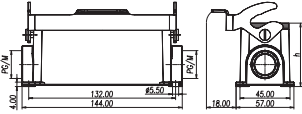

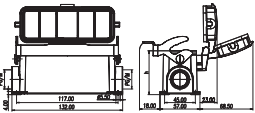
H24B with 1 lever on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | | Metr. | PG | Type | Part Number | | | | | | |
|---|--|-------------------|--------------|---|---|------|------|---|--------------|---|---|
| Hood: Side entry | | | | | | | | | | | |
|  | <p>Low construction</p>  | 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 | | | | | | |
|  | <p>High construction</p>  | 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 | | | | | | | | | | | |
|  | <p>Low construction</p>  | 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 | | | | | | |
|  | <p>High construction</p>  | 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 hood | | | | | | | | | | | |
|  |  <table border="1" data-bbox="531 1339 746 1429"> <thead> <tr> <th>Construction</th> <th>H</th> </tr> </thead> <tbody> <tr> <td>Low</td> <td>62.5</td> </tr> <tr> <td>High</td> <td>78.5</td> </tr> </tbody> </table> | Construction | H | Low | 62.5 | High | 78.5 | <p>Low construction (M25, M32)</p> <p>High construction (M25, M32, M40)</p> | PG21 PG29 | <p>Low construction (M25, M32)</p> <p>High construction (M25, M32, M40)</p> | <p>Low construction (M25, M32)</p> <p>High construction (M25, M32, M40)</p> |
| Construction | H | | | | | | | | | | |
| Low | 62.5 | | | | | | | | | | |
| High | 78.5 | | | | | | | | | | |
| Protection covers for hoods | | | | | | | | | | | |
|  | | | | H24B-KDTP-LB | T 1 01 024 1500-000 | | | | | | |

H24B with 1 lever on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | Metr. | PG | Type | Part Number | | | | | | |
|---|--|--------------|------------|---------------------|----|-------|----|---|--|--|
| Bulkhead mounted | | | | | | | | | | |
|  |  | | H24B-AG-LB | T 1 50 024 3000-000 | | | | | | |
|  | With protection cover  | | H24B-AD-LB | T 1 51 024 3000-000 | | | | | | |
| Surface mounted: Side entry | | | | | | | | | | |
|  |  <table border="1" data-bbox="320 1137 539 1227"> <tr><td>Construction</td><td>H</td></tr> <tr><td>Low</td><td>56</td></tr> <tr><td>Hight</td><td>81</td></tr> </table> | Construction | H | Low | 56 | Hight | 81 | Low construction 1 Side entry 2 Side entry High construction 1 Side entry 2 Side entry | M20 M25 M20 M25 M25 M32 M25 M32 PG16 PG21 PG16 PG21 PG21 PG29 PG21 PG29 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-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 3220-000 T 1 61 024 3225-000 T 1 65 024 3121-000 T 1 65 024 3129-000 T 1 65 024 3125-000 T 1 65 024 3132-000 T 1 65 024 3221-000 T 1 65 024 3229-000 T 1 65 024 3225-000 T 1 65 024 3232-000 |
| Construction | H | | | | | | | | | |
| Low | 56 | | | | | | | | | |
| Hight | 81 | | | | | | | | | |
|  | With protection cover  <table border="1" data-bbox="320 1585 539 1675"> <tr><td>Construction</td><td>H</td></tr> <tr><td>Low</td><td>56</td></tr> <tr><td>Hight</td><td>81</td></tr> </table> | Construction | H | Low | 56 | Hight | 81 | Low construction 1 Side entry 2 Side entry High construction 1 Side entry 2 Side entry | M20 M25 M20 M25 M25 M32 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-2PG21 H24B-SDR-LB-2M20 H24B-SDR-LB-2M25 H24B-SDRH-LB-PG21 H24B-SDRH-LB-PG29 H24B-SDRH-LB-M25 H24B-SDRH-LB-M32 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 3220-000 T 1 62 024 3225-000 T 1 66 024 3121-000 T 1 66 024 3129-000 T 1 66 024 3125-000 T 1 66 024 3132-000 T 1 66 024 3221-000 T 1 66 024 3229-000 T 1 66 024 3225-000 T 1 66 024 3232-000 |
| Construction | H | | | | | | | | | |
| Low | 56 | | | | | | | | | |
| Hight | 81 | | | | | | | | | |

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


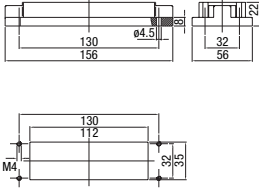

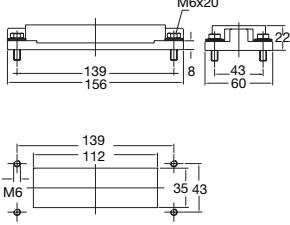

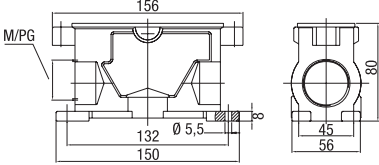

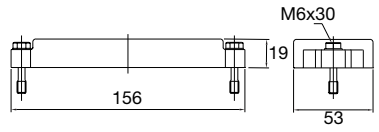
HIP: Pressure-tight, silver-grey

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 | 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 |
|  |  | | HIP HIP.24/64.AG.M6 | 1-1102626-5 |
| | | | HIP-K HIP-K.24/64.AG.M6 | 2-1102626-5 |
| | | | HIP-K HIP-K.24/64.AG.M6.D | 2-1102628-5 |
| | | | HIP-K HIP-K-1.24/64.AG.M6.D | 0-1108533-1 |
| | | | EMV-K EMV-K.24/64.AG.M6 | 4-1102736-5 |
| Surface mounted housing: Side entry, Standard construction | | | | |
|  |  | 2xM40 | HIP HIP.24/64.SG.1.29.G | 1-1102624-5 |
| | | | HIP HIP.24/64.SG.2.29.G | 1-1102625-5 |
| | | | HIP HIP.24/64.SG.2.M40.G | 0-1106472-1 |
| | | 2xM40 | HIP-K HIP-K.24/64.SG.1.29.G | 5-1102624-5 |
| | | | HIP-K HIP-K.24/64.SG.2.29.G | 2-1102625-5 |
| | | | HIP-K HIP-K.24/64.SG.2.M40.G | 0-1106472-2 |
| | | 2xM40 | EMV-K EMV-K.24/64.SG.1.29.G | 4-1102734-5 |
| | | | EMV-K EMV-K.24/64.SG.2.29.G | 4-1102735-5 |
| | | | EMV-K EMV-K.24/64.SG.2.M40.G | 0-1106460-2 |
| Protective cover housings | | | | |
|  |  | | HIP HIP/EMV.24/64.SKB | 3-1106204-5 |
| | | | HIP-K/EMV-K HIP-K/EMV-K.24/64.SKB | 4-1106204-5 |

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


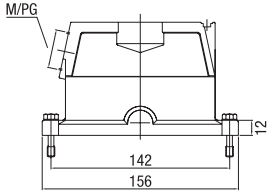

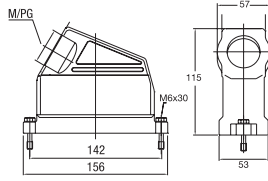

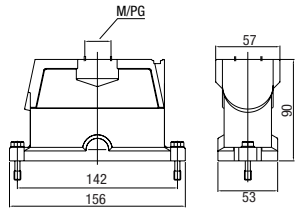
HIP: Pressure-tight, silver-grey

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 | Type | Part Number | |
|---|---|-------------------|---|---|--|
| Hood: Side entry, Standard construction | | | | | |
|  |  | 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 |
| | | 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 |
|  |  | 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 |
| | | M40 | 29 36 | HIP-K HIP-KF/K.24/64.STS.1.29.G HIP-KF/K.24/64.STS.1.36.G HIP-KF/K.24/64.STS.1.M40.G | 2-1102622-5 2-1102623-5 0-1106474-2 |
| | | 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 | | | |
| | | 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 |
| | | 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 |
| | | 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 | | | |
| | | 2xM40 | | | |


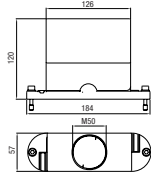

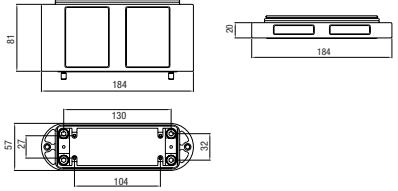

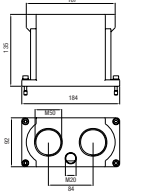

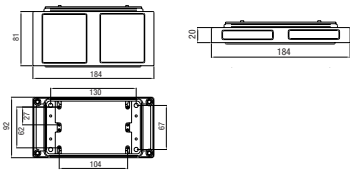
HF-HIP-K 8/HF-EMV-K 8, HF-HIP-K 12/HF-EMV-K 12 housings

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 | Type | Part Number |
|---|---|---|--|--|
| Hood | | | | |
|  |  | 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 | | | | |
|  |  | Height 20 mm 20 mm 81 mm 81 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 | | | | |
|  |  | Height 20 mm 20 mm 81 mm 81 mm | HF-HIP-K.12.AG.N HF-EMV-K.12.AG.N HF-HIP-K.12.AG HF-EMV-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) | Type | 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 separately) | | | |
| | HE-016-MC(1-16) HE-016-MC(17-32) | T 2 04 016 4101-000 T 2 04 032 4101-000 | |
| | 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 contact) | | | |
| | 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 |

16A Contact


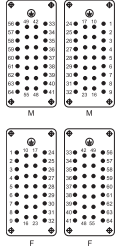
| Tech data Material: copper alloy Contact resistance: $\leq 1\text{m}\Omega$ Terminal: crimp connection CEM/Male | 16A Male crimp contacts | Wire gauge | | Strip- ping length mm | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|--|--------------------------------|-----------------|----------------------------------|--------------------------------|-------------------------------|---------------------|-----------------------------|---------------------|
| | | mm ² | AWG | | Type | Part Number | Type | Part Number |
| | | 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 |
| | | 0.5 | 20 | 7.5 | CEM-0.5 | T 2 03 000 1005-000 | DEM-0.5 | T 2 03 001 1005-000 |
| | | 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 crimp contacts | 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 |
| 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 |
| 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 |

HEE-064 inserts

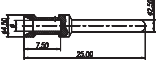


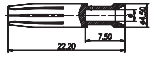
INSERTS FOR H32B HOOD/HOUSING

500V MAX. 16A

64 (2x32)+⊕

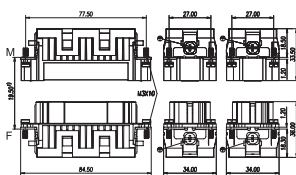
| Dimensions (mm) | | Type | Part Number | |
|---|---|-------------------------------------|--|--|
| | | | Male insert | Female insert |
| Crimp terminal (order crimp contacts separately) | Contact arrangement view from termination side | | | |
|  |  | HEE-032-M(1-32) HEE-032-M(33-64) | T 2 05 032 2101-000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

16A Contact

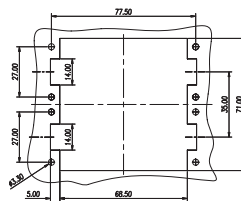
| Tech data Material: copper alloy Contact resistance: $\leq 1\text{m}\Omega$ Terminal: crimp connection CEM/Male | 16A Male crimp contacts  | Wire gauge | | Stripping length mm | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | | | |
|--|--|--|---|------------------------|-------------------------------|---------------------|-----------------------------|---------------------|----------|---------------------|
| | | mm ² | AWG | | Type | Part Number | Type | Part Number | | |
|  | | 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 | | |
| | | 0.5 | 20 | 7.5 | CEM-0.5 | T 2 03 000 1005-000 | DEM-0.5 | T 2 03 001 1005-000 | | |
| | | 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 crimp contacts  | 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 |
| | | | | 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 |
| 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 | | |

Distance for contact max. 21mm

Crimp terminal



Panel cut-out for inserts for use without hoods/housings



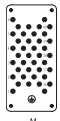
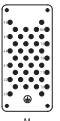
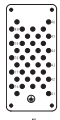



HEEE-080 Inserts


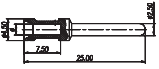

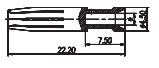
INSERTS FOR H32B HOOD/HOUSING

500V MAX. 16A

80+ 

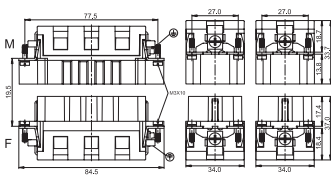
| Dimensions (mm) | | Type | Part Number | |
|--|--|---------------------------------------|--|--|
| | | | Male insert | Female insert |
| Crimp terminal (order crimp contacts separately) | Contact arrangement view from termination side | | | |
|   |     | HEEE-040-M(1-40) HEEE-040-M(41-80) | T 2 05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

16A Contact

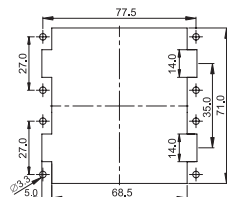
| Tech data Material: copper alloy Contact resistance: $\leq 1\text{m}\Omega$ Terminal: crimp connection CEM/Male  | 16A Male crimp contacts  | Wire gauge | | Strip-ping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|-----------------|-----------|-------------------|-------------------------------|---------------------|-----------------------------|---------------------|
| | | mm ² | AWG | | Type | Part Number | Type | Part Number |
| | | | 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 |
| | 0.5 | 20 | 7.5 | CEM-0.5 | T 2 03 000 1005-000 | DEM-0.5 | T 2 03 001 1005-000 | |
| | 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 crimp contacts  | 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 |
| | | 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 |
| | | 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 |

Distance for contact max. 21mm

Crimp terminal



Panel cut-out for inserts for use without hoods/housings



HEEE-096 inserts


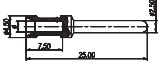

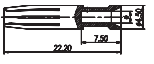
INSERTS FOR H32B HOOD/HOUSING

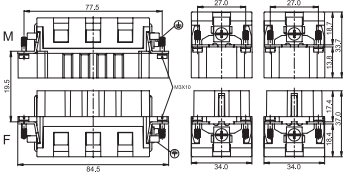
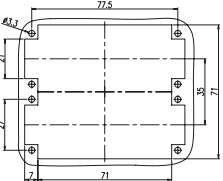
400V MAX. 16A

96+

| Dimensions (mm) | | Type | 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 |

16A Contact


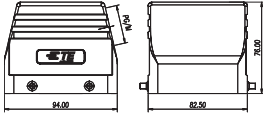

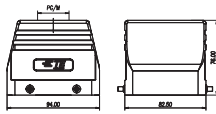

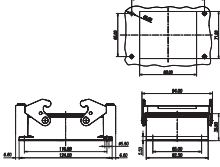

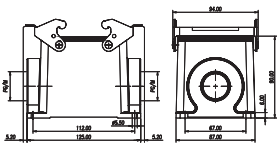

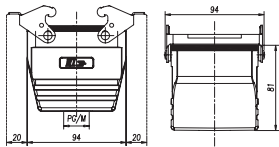

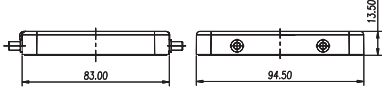
| Tech data Material: copper alloy Contact resistance: ≤1mΩ Terminal: crimp connection CEM/Male  | 16A Male crimp contacts  | Wire gauge | | Strip-ping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|-----------------|-------|-------------------|-------------------------------|---------------------|-----------------------------|---------------------|
| | | mm ² | AWG | | Type | Part Number | Type | Part Number |
| | | | | | 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 |
| | | 0.5 | 20 | 7.5 | CEM-0.5 | T 2 03 000 1005-000 | DEM-0.5 | T 2 03 001 1005-000 |
| | | 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 crimp contacts  | 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 |
| | | 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 |
| | | 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 |

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




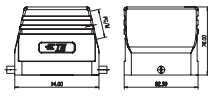

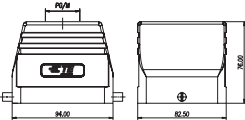

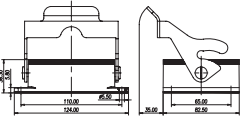

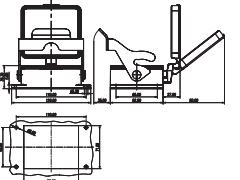

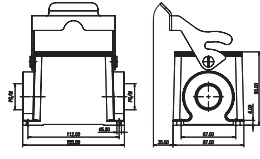

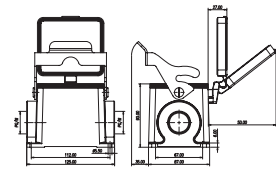
H32B with 2 levers on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | Metr. | PG | Type | Part Number |
|---|---|--|---|--|
| Hood: Side entry | | | | |
|  |  | 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 | | | | |
|  |  | | H32B-AG | T 1 41 032 2000-000 |
| Surface mounted: 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-M40 H32B-SGR-M50 H32B-SGR-M63 H32B-SGR-2PG29 H32B-SGR-2PG36 H32B-SGR-2PG42 H32B-SGR-2M32 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 2163-000 T 1 44 032 2229-000 T 1 44 032 2236-000 T 1 44 032 2242-000 T 1 44 032 2232-000 T 1 44 032 2240-000 T 1 44 032 2250-000 T 1 44 032 2263-000 |
| Cable-to-cable hood | | | | |
|  |  | 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 | | | | |
|  |  | | H32B-KDB | T 1 00 032 1220-000 |

H32B with 1 lever on the hoods/housings

POWDER-COATED, RAL 7037





| Dimensions (mm) | Metr. | PG | Type | 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 | | | | | |
|  |  | 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: Side entry | | | | | |
|  |  | 1 Side entry M32 M40 2 Side entry M32 M40 | PG29 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  | 1 Side entry M32 M40 2 Side entry M32 M40 | PG29 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

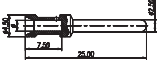


INSERTS FOR H48B HOOD/HOUSING

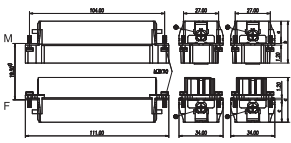
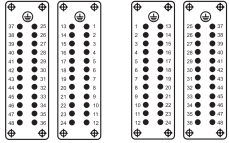
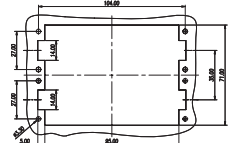
500V MAX. 16A

48 (2x24)+ Ⓢ

| Dimension (mm) | Type | 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 | | | |
|  | 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 separately) | | | |
|  | 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 contact) | | | |
|  | 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 |

16A Contact

| Tech data Material: copper alloy Contact resistance: ≤1mΩ Terminal: crimp connection CEM/Male | 16A Male crimp contacts  | Wire gauge | | Stripping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | | | |
|--|--|-----------------|--|------------------|-------------------------------|---------------------|-----------------------------|---------------------|-------------|---------------------|
| | | mm ² | AWG | | mm | Type | Part Number | Type | Part Number | |
|  | | 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 | | |
| | | 0.5 | 20 | 7.5 | CEM-0.5 | T 2 03 000 1005-000 | DEM-0.5 | T 2 03 001 1005-000 | | |
| | | 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 crimp contacts  | 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 |
| | | | | 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 |
| 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 | | |


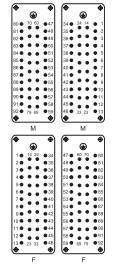
| Distance for contact max. 21mm | Contact arrangement view from termination side | Panel cut-out for inserts for use without hoods/housings |
|---|---|--|
|  |  |  |

HEE-092 inserts

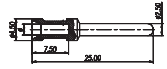

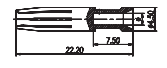
INSERTS FOR H48B HOOD/HOUSING

500V MAX. 16A

92 (2x46)+⊕

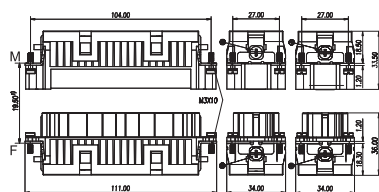
| Dimensions (mm) | | Type | Part Number | |
|---|---|-------------------------------------|--|--|
| | | | Male insert | Female insert |
| Crimp terminal (order crimp contacts separately) | Contact arrangement view from termination side | | | |
|  |  | HEE-046-M(1-46) HEE-046-M(47-92) | T 2 05 046 2101-000 T 2 05 092 2101-000 | |
| | | HEE-046-F(1-46) HEE-046-F(47-92) | | T 2 05 046 2201-000 T 2 05 092 2201-000 |

16A Contact

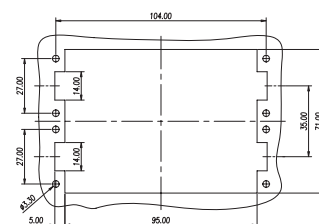
| Tech data Material: copper alloy Contact resistance: ≤1mΩ Terminal: crimp connection CEM/Male | 16A Male crimp contacts  | Wire gauge | | Strip-ping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|--|--|-----------------|--|-------------------|-------------------------------|---------------------|-----------------------------|---------------------|
| | | mm ² | AWG | | Type | Part Number | Type | Part Number |
|  | | 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 |
| | | 0.5 | 20 | 7.5 | CEM-0.5 | T 2 03 000 1005-000 | DEM-0.5 | T 2 03 001 1005-000 |
| | | 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 crimp contacts  | 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 |
| 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 |
| 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 |

Distance for contact max. 21mm

Crimp terminal



Panel cut-out for inserts for use without hoods/housings


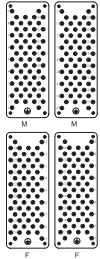


HEEE-128 inserts


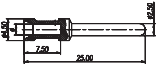

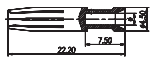
INSERTS FOR H48B HOOD/HOUSING

500V MAX. 16A

128+ ⊕

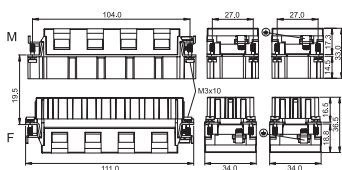
| Dimensions (mm) | | Type | Part Number | |
|---|---|--|--|--|
| | | | Male insert | Female insert |
| Crimp terminal (order crimp contacts separately) | Contact arrangement view from termination side | | | |
|  |  | HEEE-064-M(1-64) HEEE-128-M(65-128) | T 2 05 064 3101-000 T 2 05 128 3101-000 | |
|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

16A Contact

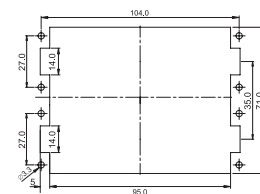
| Tech data Material: copper alloy Contact resistance: $\leq 1m\Omega$ Terminal: crimp connection CEM/Male  | 16A Male crimp contacts  | Wire gauge | | Strip-ping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|--|-----------------|-------|-------------------|-------------------------------|---------------------|-----------------------------|---------------------|
| | | mm ² | AWG | | Type | Part Number | Type | Part Number |
| | | 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 |
| | | 0.5 | 20 | 7.5 | CEM-0.5 | T 2 03 000 1005-000 | DEM-0.5 | T 2 03 001 1005-000 |
| | | 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 crimp contacts  | 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 |
| | | 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 |
| | | 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 |

Distance for contact max. 21mm

Crimp terminal



Panel cut-out for inserts for use without hoods/housings

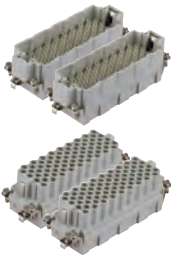
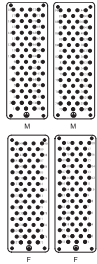


HEEE-144 inserts


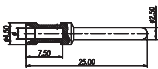

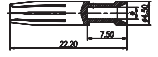
INSERTS FOR H48B HOOD/HOUSING

400V MAX. 16A

144+ ⊕

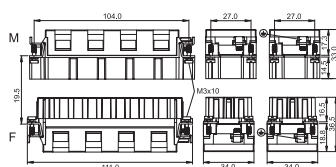
| Dimensions (mm) | | Type | Part Number | |
|---|---|--|--|--|
| | | | Male insert | Female insert |
| Crimp terminal (order crimp contacts separately) | Contact arrangement view from termination side | | | |
|  |  | HEEE-072-M(1-72) HEEE-144-M(73-144) | T 2 05 072 2101-000 T 2 05 144 2101-000 | |
|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

16A Contact

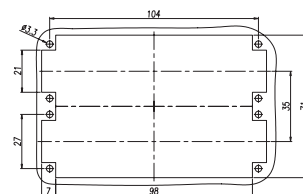
| Tech data Material: copper alloy Contact resistance: $\leq 1m\Omega$ Terminal: crimp connection CEM/Male  | 16A Male crimp contacts  | Wire gauge | | Strip-ping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | | | |
|--|--|---|--|-------------------|-------------------------------|---------------------|-----------------------------|---------------------|----------|---------------------|
| | | mm ² | AWG | | Type | Part Number | Type | Part Number | | |
| | | 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 | | |
| | | 0.5 | 20 | 7.5 | CEM-0.5 | T 2 03 000 1005-000 | DEM-0.5 | T 2 03 001 1005-000 | | |
| | | 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 crimp contacts  | 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 |
| | | | | 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 |
| 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 | | |

Distance for contact max. 21mm

Crimp terminal


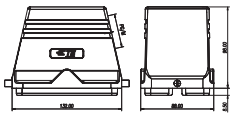

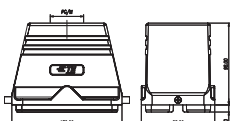

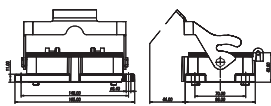

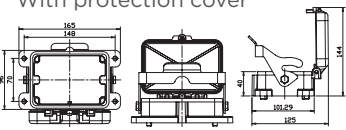

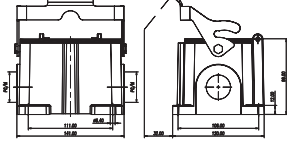

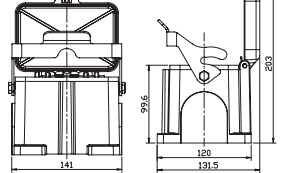


Panel cut-out for inserts for use without hoods/housings



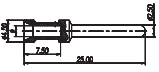



H48B hoods/housings

POWDER-COATED, RAL 7037





| Dimensions (mm) | | Metr. | PG | Type | Part Number |
|---|--|--------------------------|----------------------|--|---|
| Hood: Side entry | | | | | |
|  |  | 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 | 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 | | | | | |
|  |  | | | H48B-AG | T 1 50 048 2000-000 |
|  | With protection cover  | | | H48B-AD-LB | T 1 51 048 2000-000 |
| Surface mounted: Side entry | | | | | |
|  |  | M32 M40 M50 | PG29 PG36 PG42 | H48B-SGR-PG29 H48B-SGR-PG36 H48B-SGR-PG42 H48B-SGR-M32 H48B-SGR-M40 H48B-SGR-M50 | 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 |
| | | M32 M40 M50 | PG29 PG36 PG42 | H48B-SGR-2PG29 H48B-SGR-2PG36 H48B-SGR-2PG42 H48B-SGR-2M32 H48B-SGR-2M40 H48B-SGR-2M50 | 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 with cover | | | | | |
|  |  | M32 M40 M50 | PG29 PG36 PG42 | H48B-SDR-PG29 H48B-SDR-PG36 H48B-SDR-PG42 H48B-SDR-M32 H48B-SDR-M40 H48B-SDR-M50 | 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 |
| | | M32 M40 M50 | PG29 PG36 PG42 | H48B-SDR-2PG29 H48B-SDR-2PG36 H48B-SDR-2PG42 H48B-SDR-2M32 H48B-SDR-2M40 H48B-SDR-2M50 | T 1 62 048 0229-000 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 HE/HA series

16A Contact

| Tech data Material: copper alloy Contact resistance: $\leq 1\text{m}\Omega$ Terminal: crimp connection CEM/Male | 16A Male crimp contacts  | Wire gauge | | Strip- ping length mm | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|--|---|---|---|--------------------------------|-------------------------------|---------------------|-----------------------------|---------------------|
| | | mm ² | AWG | | Type | Part Number | Type | Part Number |
|  | | 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 |
| | | 0.5 | 20 | 7.5 | CEM-0.5 | T 2 03 000 1005-000 | DEM-0.5 | T 2 03 001 1005-000 |
| | | 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 crimp contacts  | 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 |
| 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 |
| 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 |

Crimping tools HE/HA series

| Description | | Type | Part Number |
|--|---|-----------------|---------------------|
| Crimp tool Wire range: 0.5-4.0mm ² Suitable for CDM/CDF and CEM/CEF contacts |  | CRIMPBOX-0.5/4 | T 3 10 000 0001-000 |
| Crimp tool Wire range: 0.14-4.0mm ² 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 |

INSERTS

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

CONTACTS

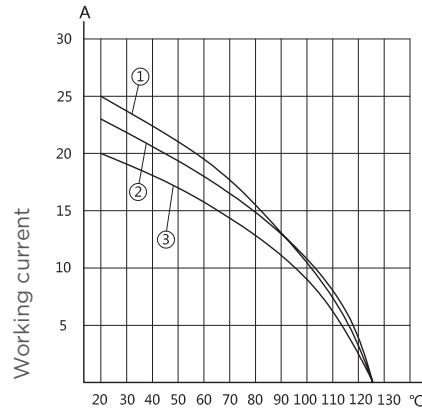
| | |
|--------------------------------|------------------------|
| Material | Copper alloy |
| Surface | Hard silver-plated |
| ..... | Hard gold-plated |
| Contact resistance | $\leq 5m\Omega$ |
| Terminal | Screw terminal |
| ..... | Crimp terminal |
| ..... | Spring terminal |
| - mm ² | |
| Screw 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 |

HOODS, HOUSINGS

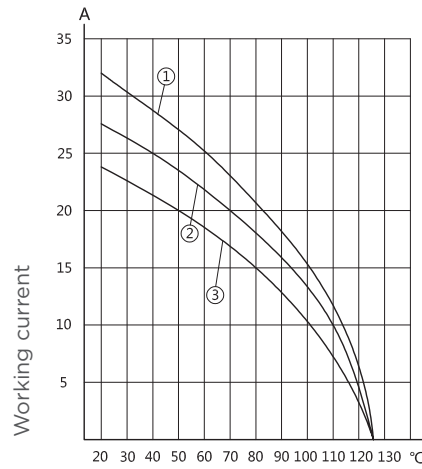
| | |
|---|------------------------------------|
| Material | Die cast aluminium |
| Surface | Powder-coated (RAL 7037) |
| Locking element..... | Stainless steel, steel-zinc plated |
| Temperature range | -40°C... +125°C |
| Degree of protection acc. to DIN40 050..... | IP65 |

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



Ambient temperature

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

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 arrangement view from termination side | | | |
|---|--|--|-----------------|--------------|---------------|
| | | 4+ \oplus | 8+ \oplus | 14+ \oplus | 20+ \oplus |
| Series HEE 690V- Insulation group C | | | | | |
| | | | | | |
| 1000V- Insulation group C | | | | | |
| | | | | | |
| | | Working contact | Without contact | Male insert | Female insert |

HVE series

INSERTS FOR H10B, H16B, H24B HOOD/HOUSING

830V MAX. 16A

| Dimension (mm) | Type | Part Number | |
|---|-----------|---------------------|---------------------|
| | | Male insert | Female insert |
| 3+ \oplus +2 Screw terminal | | | |
|  | HVE-003-M | T 2 30 003 3101-000 | |
| | HVE-003-F | | T 2 30 003 3201-000 |
| 6+ \oplus +2 Screw terminal | | | |
|  | HVE-006-M | T 2 30 006 3101-000 | |
| | HVE-006-F | | T 2 30 006 3201-000 |
| 10+ \oplus +2 Screw terminal | | | |
|  | HVE-010-M | T 2 30 010 3101-000 | |
| | HVE-010-F | | T 2 30 010 3201-000 |

HSB Series



1. 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 |

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 | $\geq 10^{10}\Omega$ |
| Material | Polycarbonate |
| Temperature range | -40°C... +125°C |
| Flammability acc. to UL94 | V0 |
| Working voltage acc. to UL/CSA | 600V |
| Mechanical working life-mating cycles | ≥ 500 |

CONTACTS

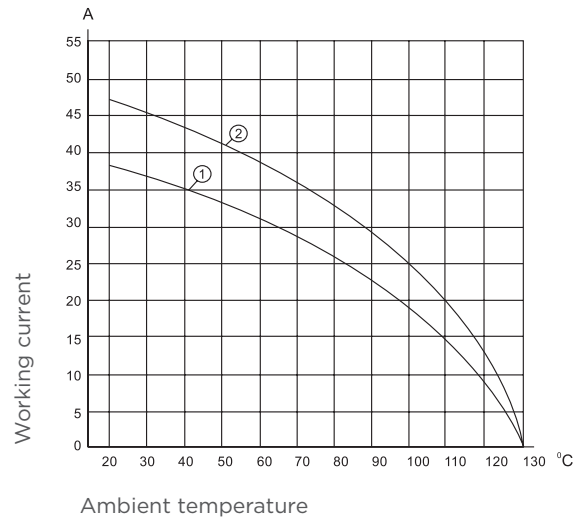
| | |
|--------------------------------|----------------------|
| Material | Copper alloy |
| Surface | Hard silver-plated |
| Contact resistance | $\leq 1m\Omega$ |
| Terminal | Screw terminal |
| - mm ² | 1.5-6mm ² |
| - AWG | 16-10 |
| - Tightening/test torque | 1.2 Nm |

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 050..... | IP65 |

CURRENT CARRYING CAPACITY

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




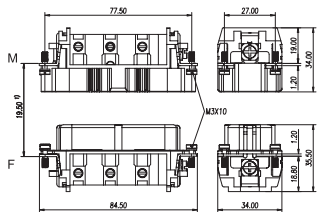
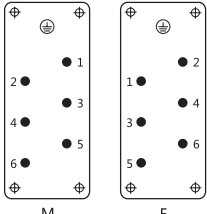
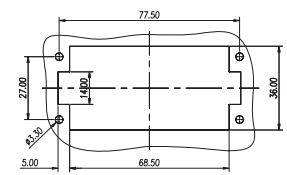
- 1 Wire gauge: 4.0mm²
- 2 Wire gauge: 6.0mm²

HSB-006 inserts

INSERTS FOR H16B HOOD/HOUSING


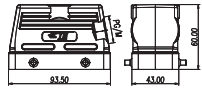

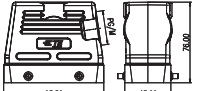

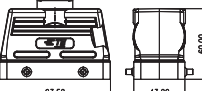

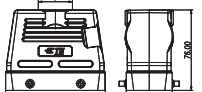

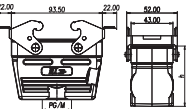

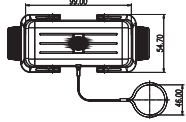


690V 35A

6+ 

| Dimensions (mm) | | Type | Part Number | |
|--|--|-----------|---------------------|---------------|
| | | | Male insert | Female insert |
| Crimp terminal (order crimp contacts separately) | | | | |
|  |  | HSB-006-M | T 2 06 006 2101-000 | |
| | | 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 | | | |
|  |  | | | |

H16B with 2 levers on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | | Metr. | PG | Type | 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 | | | | | | | | | | | |
|  | 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 hood | | | | | | | | | | | |
|  |  <table border="1" data-bbox="533 1348 737 1438"> <thead> <tr> <th>Construction</th> <th>H</th> </tr> </thead> <tbody> <tr> <td>Low</td> <td>62.5</td> </tr> <tr> <td>High</td> <td>74.5</td> </tr> </tbody> </table> | Construction | H | Low | 62.5 | High | 74.5 | Low construction M25 M32 High construction 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 |
| Construction | H | | | | | | | | | | |
| Low | 62.5 | | | | | | | | | | |
| High | 74.5 | | | | | | | | | | |
| Protection covers for hoods | | | | | | | | | | | |
|  |  | | | H16B-KDTP | T 1 01 016 1400-000 | | | | | | |
| Housing protection cover | | | | | | | | | | | |
|  |  | | | H16B-KDBP | T 1 01 016 2100-000 | | | | | | |


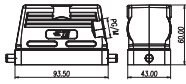

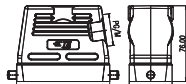

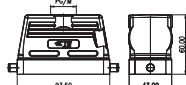

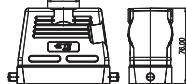

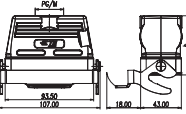

H16B with 2 levers on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | | Metr. | PG | Type | Part Number | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|------------------|---------------------|-----------------|---------------------|---------------------|----|---|--------------|--|--|-----|----|----|----|----|----|------|-----|-----|----|----|----|----|----|--|--------------|--|---|
| Bulkhead mounted | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | H16B-AGS | T 1 41 016 1000-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| Surface mounted: Side entry | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <tr> <td>Construction</td> <td>H</td> </tr> <tr> <td>Low</td> <td>56</td> </tr> <tr> <td>High</td> <td>81</td> </tr> </table> | Construction | H | Low | 56 | High | 81 | 1 Side entry Low construction M25 | PG21 | H16B-SGRS-PG21 | T 1 44 016 1121-000 | | | | | | | | | | | | | | | | | | |
| | | Construction | H | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Low | 56 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | High | 81 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | M25 | PG21 | H16B-SGRS-M25 | T 1 44 016 1125-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | H16B-SGRS-2PG21 | T 1 44 016 1221-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | H16B-SGRS-2M25 | T 1 44 016 1225-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | PG21 | H16B-SGRHS-PG21 | T 1 47 016 1121-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| | PG29 | H16B-SGRHS-PG29 | T 1 47 016 1129-000 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | M25 | H16B-SGRHS-M25 | T 1 47 016 1125-000 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | M32 | H16B-SGRHS-M32 | T 1 47 016 1132-000 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | H16B-SGRHS-2PG21 | T 1 47 016 1221-000 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | H16B-SGRHS-2PG29 | T 1 47 016 1229-000 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | H16B-SGRHS-2M25 | T 1 47 016 1225-000 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | H16B-SGRHS-2M32 | T 1 47 016 1232-000 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Side entry housing with two levers | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <tr> <td>Construction</td> <td>H</td> </tr> <tr> <td>Low</td> <td>60</td> </tr> <tr> <td>High</td> <td>76</td> </tr> </table> | Construction | H | Low | 60 | High | 76 | Low construction M20 M25 | PG16 PG21 | H16B-TSBS-PG16 H16B-TSBS-PG21 H16B-TSBS-M20 H16B-TSBS-M25 | T 1 25 016 3116-000 T 1 25 016 3121-000 T 1 25 016 3120-000 T 1 25 016 3125-000 | | | | | | | | | | | | | | | | | | |
| | | Construction | H | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Low | 60 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | High | 76 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | H16B-TSBHS-PG21 | T 1 27 016 3121-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | H16B-TSBHS-PG29 | T 1 27 016 3129-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | H16B-TSBHS-M25 | T 1 27 016 3125-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | H16B-TSBHS-M32 | T 1 27 016 3132-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| | High construction M25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | M32 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Top entry housing with two levers | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <tr> <td>Construction</td> <td>H</td> </tr> <tr> <td>Low</td> <td>60</td> </tr> <tr> <td>High</td> <td>76</td> </tr> </table> | Construction | H | Low | 60 | High | 76 | Low construction M20 M25 | PG16 PG21 | H16B-TGBS-PG16 H16B-TGBS-PG21 H16B-TGBS-M20 H16B-TGBS-M25 | T 1 26 016 3116-000 T 1 26 016 3121-000 T 1 26 016 3120-000 T 1 26 016 3125-000 | | | | | | | | | | | | | | | | | | |
| | | Construction | H | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Low | 60 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | High | 76 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | H16B-TGBHS-PG21 | T 1 28 016 3121-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | H16B-TGBHS-PG29 | T 1 28 016 3129-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | H16B-TGBHS-M25 | T 1 28 016 3125-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | H16B-TGBHS-M32 | T 1 28 016 3132-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| | High construction M25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | M32 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bulkhead mounted with 4 bolts | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | With protection cover <table border="1"> <tr> <td>Construction</td> <td>A</td> <td>B</td> <td>C</td> <td>D</td> <td>F</td> <td>G</td> <td>H</td> </tr> <tr> <td>Low</td> <td>105</td> <td>117</td> <td>45</td> <td>57</td> <td>20</td> <td>65</td> <td>56</td> </tr> <tr> <td>High</td> <td>105</td> <td>117</td> <td>45</td> <td>57</td> <td>20</td> <td>65</td> <td>81</td> </tr> </table> | Construction | A | B | C | D | F | G | H | Low | 105 | 117 | 45 | 57 | 20 | 65 | 56 | High | 105 | 117 | 45 | 57 | 20 | 65 | 81 | 1 Side entry Low construction M25 M25 | PG21 PG21 | H16B-AD-BO H16B-SDR-BO-PG21 H16B-SDR-BO-M25 H16B-SDR-BO-2PG21 H16B-SDR-BO-2M25 | 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 |
| | | Construction | A | B | C | D | F | G | H | | | | | | | | | | | | | | | | | | | | |
| | | Low | 105 | 117 | 45 | 57 | 20 | 65 | 56 | | | | | | | | | | | | | | | | | | | | |
| | | High | 105 | 117 | 45 | 57 | 20 | 65 | 81 | | | | | | | | | | | | | | | | | | | | |
| | | | | PG21 | H16B-SDRH-BO-PG21 | T 1 49 016 0121-000 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | PG29 | H16B-SDRH-BO-PG29 | T 1 49 016 0129-000 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | H16B-SDRH-BO-M25 | T 1 49 016 0125-000 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | H16B-SDRH-BO-M32 | T 1 49 016 0132-000 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | H16B-SDRH-BO-2PG21 | T 1 49 016 0221-000 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | H16B-SDRH-BO-2PG29 | T 1 49 016 0229-000 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | H16B-SDRH-BO-2M25 | T 1 49 016 0225-000 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | H16B-SDRH-BO-2M32 | T 1 49 016 0232-000 | | | | | | | | | | | | | | | | | | | | | | | |
| | High construction M25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | M32 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |


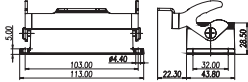

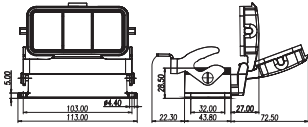

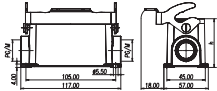

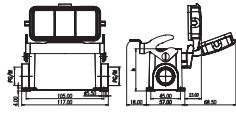
H16B with 1 lever on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | Metr. | PG | Type | Part Number | | | | | | |
|---|--|-------------------|---|---|------|------|------|-------------------------------------|--|---|
| Hood: Side entry | | | | | | | | | | |
|  |  | 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 | | | | | | |
|  |  | 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 | | | | | | | | | | |
|  |  | 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 | | | | | | |
|  |  | 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 hood | | | | | | | | | | |
|  |  <table border="1" data-bbox="528 1335 751 1435"> <thead> <tr> <th>Construction</th> <th>H</th> </tr> </thead> <tbody> <tr> <td>Low</td> <td>62.5</td> </tr> <tr> <td>High</td> <td>74.5</td> </tr> </tbody> </table> | Construction | H | Low | 62.5 | High | 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 |
| Construction | H | | | | | | | | | |
| Low | 62.5 | | | | | | | | | |
| High | 74.5 | | | | | | | | | |
| Protection covers for hoods | | | | | | | | | | |
|  | | | H16B-KDTP-LB | T 1 01 016 1500-000 | | | | | | |

H16B with 1 lever on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | Metr. | PG | Type | Part Number | | | | | | |
|---|--------------|----|------------|---------------------|------|----|---|--|--|--|
| Bulkhead mounted | | | | | | | | | | |
|   | | | H16B-AG-LB | T 1 50 016 3000-000 | | | | | | |
|  <p>With protection cover</p>  | | | H16B-AD-LB | T 1 51 016 3000-000 | | | | | | |
| Surface mounted: Side entry | | | | | | | | | | |
|   <table border="1" data-bbox="325 1146 542 1240"> <tr> <td>Construction</td> <td>H</td> </tr> <tr> <td>Low</td> <td>56</td> </tr> <tr> <td>High</td> <td>81</td> </tr> </table> | Construction | H | Low | 56 | High | 81 | 1 Side entry Low construction M20 M25 2 Side entry High construction M20 M25 1 Side entry High construction M25 M32 2 Side entry High construction M25 M32 | PG16 PG21 PG16 PG21 PG21 PG29 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-PG21 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 | 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 3220-000 T 1 61 016 3225-000 T 1 65 016 3121-000 T 1 65 016 3129-000 T 1 65 016 3125-000 T 1 65 016 3132-000 T 1 65 016 3221-000 T 1 65 016 3229-000 T 1 65 016 3225-000 T 1 65 016 3232-000 |
| Construction | H | | | | | | | | | |
| Low | 56 | | | | | | | | | |
| High | 81 | | | | | | | | | |
|  <p>With protection cover</p>  <table border="1" data-bbox="325 1563 542 1657"> <tr> <td>Construction</td> <td>H</td> </tr> <tr> <td>Low</td> <td>56</td> </tr> <tr> <td>High</td> <td>81</td> </tr> </table> | Construction | H | Low | 56 | High | 81 | 1 Side entry Low construction M20 M25 2 Side entry High construction M20 M25 1 Side entry High construction M25 M32 2 Side entry High construction 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-M25 H16B-SDRH-LB-M32 H16B-SDRH-LB-2PG21 H16B-SDRH-LB-2PG29 H16B-SDRH-LB-2M25 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 3220-000 T 1 62 016 3225-000 T 1 66 016 3121-000 T 1 66 016 3129-000 T 1 66 016 3125-000 T 1 66 016 3132-000 T 1 66 016 3221-000 T 1 66 016 3229-000 T 1 66 016 3225-000 T 1 66 016 3232-000 |
| Construction | H | | | | | | | | | |
| Low | 56 | | | | | | | | | |
| High | 81 | | | | | | | | | |



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 | | | |
|---|-------|---|---|-------------|----|---|-----------------------------------|
| Hood: Side entry | | | | | | | |
|  | M32 | 21 | 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 | | | |
| | | | | M32 | 29 | HIP-K HIP-K.16/40.STS.1.29.G HIP-K.16/40.STS.1.M32.G | 1-1102651-5 |
| | | | | | | | 0-1106454-2 |
| 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 | | | |
| Hood: Top entry | | | | | | | |
|  | M32 | 21 | 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 | | | |
| | | | | M32 | 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 | 1-1102655-5 |
| | | | | | | | 0-1106454-1 |
| M32 | 29 | EMV-K EMV-K.16/40.STO.1.29.G EMV-K.16/40.STO.1.M32.G | 0-1108534-1 | | | | |
| | | | | 2-1102655-5 | | | |
| | | | | 0-1106444-1 | | | |
| | | | | 4-1102725-5 | | | |
| | | | | 0-1106446-3 | | | |
| Surface mounted housing: Bottom entry | | | | | | | |
|  | | | HIP HIP.16/40.AG | 1-1102656-5 | | | |
| | | | | | | HIP-K HIP-K.16/40.AG | 2-1102656-5 |
| | | | | | | | EMV-K EMV-K.16/40.AG | 4-1102728-5 |
|  | | | HIP HIP.16/40.AG.M6 | 1-1102618-5 | | | |
| | | | | | | HIP-K HIP-K.16/40.AG.M6 | 2-1102618-5 |
| | | | | | | | EMV-K EMV-K.16/40.AG.M6 | 4-1102730-5 |

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


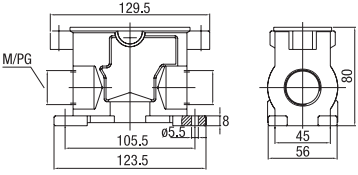

HIP: Pressure-tight, silver-grey

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


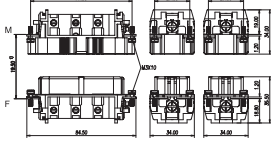
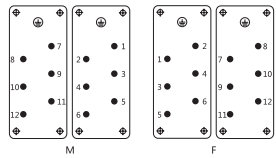
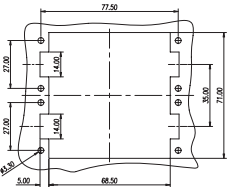
| Description | Metr. | PG | Type | Part Number |
|---|---|------------|---------------------------------------|---------------------------------|
| Surface mounted housing: Side entry | | | | |
|  | 2xM32 | 21 2x21 | HIP HIP.16/40.SG.1.21.G | 1-1102616-5 |
| | | | HIP.16/40.SG.2.21.G | 1-1102617-5 |
| | | | HIP.16/40.SG.2.M32.G | 0-1106453-1 |
| | 2xM32 | 21 2x21 | HIP-K HIP-K.16/40.SG.1.21.G | 5-1102616-5 |
| | | | HIP-K.16/40.SG.2.21.G | 2-1102617-5 |
| | | | HIP-K.16/40.SG.2.M32.G | 0-1106443-1 |
| | 2xM32 | 21 2x21 | EMV-K EMV-K.16/40.SG.1.21.Z | 4-1102726-5 |
| | | | EMV-K.16/40.SG.2.21.Z | 4-1102727-5 |
| | | | EMV-K.16/40.SG.2.M32.G | 0-1106445-2 |
|  | | | | |
| | Protective covers for housings | | | |
| |  | 129.5 | 19 | HIP HIP/EMV.16/40.SKB | 3-1106203-5 |
| HIP-K HIP-K.16/40.SKB | | | | 4-1106203-5 |

HSB-012 inserts

INSERTS FOR H32B HOOD/HOUSING


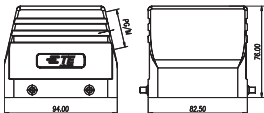

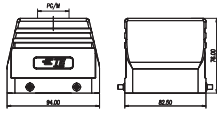

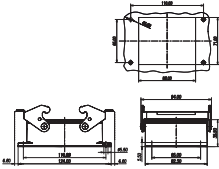

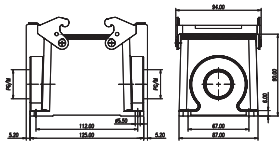

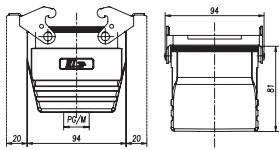

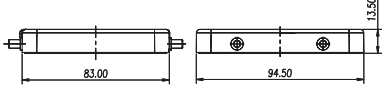
690V 35A

12 (2x6)+ ⊕

| Dimensions (mm) | Type | Part Number | |
|---|---|-----------------|---------------------|
| | | Male insert | Female insert |
| Screw terminal | | | |
|  |  | HSB-006-M(1-6) | T 2 06 006 2101-000 |
| | | HSB-006-M(7-12) | T 2 06 012 2101-000 |
| | | HSB-006-F(1-6) | T 2 06 006 2201-000 |
| | | HSB-006-F(7-12) | T 2 06 012 2201-000 |
| Contact arrangement view from termination side | Panel cut out for inserts for use without hoods/housings | | |
|  |  | | |


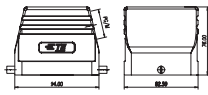

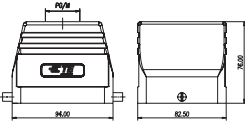

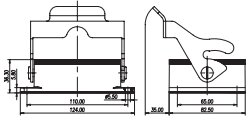

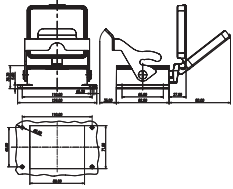

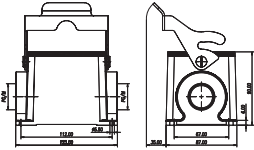

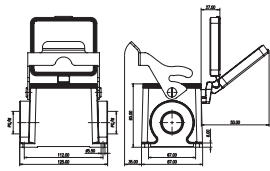
H32B with 2 levers on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | Metr. | PG | Type | Part Number |
|---|---|--|---|--|
| Hood: Side entry | | | | |
|  |  | 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 | | | | |
|  |  | | H32B-AG | T 1 41 032 2000-000 |
| Surface mounted: 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-M40 H32B-SGR-M50 H32B-SGR-M63 H32B-SGR-2PG29 H32B-SGR-2PG36 H32B-SGR-2PG42 H32B-SGR-2M32 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 2163-000 T 1 44 032 2229-000 T 1 44 032 2236-000 T 1 44 032 2242-000 T 1 44 032 2232-000 T 1 44 032 2240-000 T 1 44 032 2250-000 T 1 44 032 2263-000 |
| Cable-to-cable hood | | | | |
|  |  | 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 | | | | |
|  |  | | H32B-KDB | T 1 00 032 1220-000 |

H32B with 1 lever on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | Metr. | PG | Type | 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 | | | | |
|  |  | 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: Side entry | | | | |
|  |  | 1 Side entry M32 M40 2 Side entry M32 M40 | PG29 H32B-SGR-LB-PG29 H32B-SGR-LB-M32 H32B-SGR-LB-M40 PG29 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  | 1 Side entry M32 M40 2 Side entry M32 M40 | PG29 H32B-SDR-LB-PG29 H32B-SDR-LB-M32 H32B-SDR-LB-M40 PG29 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



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



HQ technical characteristics

| | |
|--------------------------|----------------------|
| Specifications | DIN EN 60 664-1 |
| ..... | DIN EN 61 984 |
| Number of contacts | 5,7,8,12,17,4/2 + 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

| | |
|---|----------------------------------|
| 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 |
| HQ4/2..... | Power area 600V Signal area 250V |
| Test voltage urms | |
| HQ-005,017 | 4KV |
| HQ-007,008,012,4/2 | 6KV |
| Pollution degree | 3 |
| Insulation resistance | $\geq 10^{10}\Omega$ |
| 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 | $\leq 1\text{m}\Omega$ |
| 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


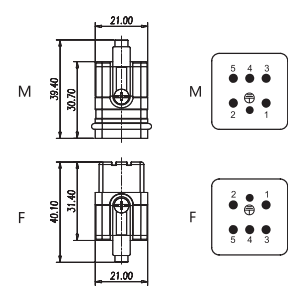
| | |
|---|------------------------------------|
| Material | Die cast aluminium |
| Surface | Powder-coated (RAL 7037) |
| Locking element..... | Stainless steel, steel-zinc plated |
| Temperature range | -40°C... +125°C |
| Degree of protection acc. to DIN40 050..... | IP65 |

HQ-005 inserts


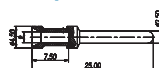

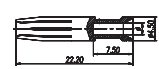
INSERTS FOR H3A HOOD/HOUSING

400V MAX. 16A

5+ 

| Dimensions (mm) | Contact arrangement view from termination side | Part Number | | Type |
|---|---|---------------------|---------------------|----------|
| | | Male insert | Female insert | |
| Crimp terminal (Order crimp contacts separately) | | | | |
|  |  | T 2 08 005 2101-000 | | HQ-005-M |
| | | | T 2 08 005 2201-000 | HQ-005-F |

16A Contact

| Tech data Material: copper alloy Contact resistance: $\leq 1m\Omega$ Terminal: crimp connection CEM/Male  | 16A Male crimp contacts  | Wire gauge | | | Strip-ping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|--|--|---|--|-----------|-------------------|-------------------------------|-------------|-----------------------------|-------------|
| | | mm ² | AWG | mm | | Type | Part Number | Type | Part Number |
| | | 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 | |
| | | 0.5 | 20 | 7.5 | CEM-0.5 | T 2 03 000 1005-000 | DEM-0.5 | T 2 03 001 1005-000 | |
| | | 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 crimp contacts  | 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 |
| 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 | |
| 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 | |


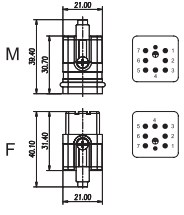

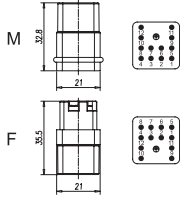
HQ-007/012 inserts

INSERTS FOR H3A HOOD/HOUSING


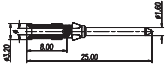

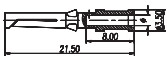
400V MAX. 10A

7+

12+

| Dimensions (mm) | Contact arrangement view from termination side | Part Number | | Type |
|--|--|---------------------|---------------------|----------|
| | | Male insert | Female insert | |
| Crimp terminal (Order crimp contacts separately) | | | | |
|  |  | T 2 08 007 2101-000 | | HQ-007-M |
| | | | T 2 08 007 2201-000 | HQ-007-F |
|  |  | T 2 08 012 2101-000 | | HQ-012-M |
| | | | T 2 08 012 2201-000 | HQ-012-F |

10A Contact

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

H3A metal hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | | Metr. | PG | Type | Part Number | |
|---|---|---|------|--|---|---------------------|
| Top entry | | | | | | |
|  |  | M20 | PG11 | H3A-MTG-PG11 H3A-MTG-M20 | T 1 32 903 0111-000 T 1 32 903 0120-000 | |
| Side entry | | | | | | |
|  |  | M20 | PG11 | H3A-MTS-PG11 H3A-MTS-M20 | T 1 31 903 0111-000 T 1 31 903 0120-000 | |
| Bulkhead mounting: Bottom entry | | | | | | |
|  |  | | | H3A-MAG | T 1 50 903 0000-000 | |
| Bulkhead mounting: Side entry | | | | | | |
|  |  | | | H3A-MAGS | T 1 54 903 0000-000 | |
| Surface mounting: Side entry | | | | | | |
|  |  | 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 covers for hoods (thermoplastic) | | | | | | |
|  | 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 (mm) | | Metr. | PG | Type | Part Number |
|---|---|---|------|---|---|
| Top entry | | | | | |
|  |  | M20 | PG11 | H3A-TG-PG11 H3A-TG-M20 | T 1 32 903 1111-000 T 1 32 903 1120-000 |
| Side entry | | | | | |
|  |  | M20 | PG11 | H3A-TS-PG11 H3A-TS-M20 | T 1 31 903 1111-000 T 1 31 903 1120-000 |
| Bulkhead mounting: Bottom entry | | | | | |
|  |  | | | H3A-AG | T 1 50 903 1100-000 |
| Bulkhead mounting: Side entry | | | | | |
|  |  | | | H3A-AGS | T 1 50 903 1111-000 |
| Surface mounting: Side entry | | | | | |
|  |  | 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 hood: | | | | | |
|  |  | 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) | | | | | |
|  | Note: For mounted male insert and hood |  | | H3A-KDTP | T 1 01 003 1100-000 |
| Protection covers for hoods | | | | | |
|  | 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 |
| White | Grey | | | | |
| 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


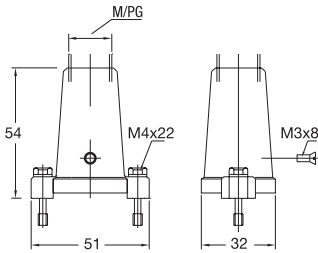

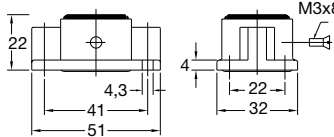

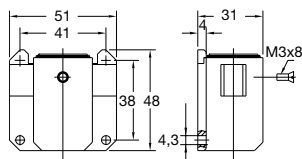
HIP: Pressure-tight, silver-grey

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 | Type | Part Number | | |
|---|---|---|---|---|------------------------------|-------------|
| Hood: Top entry | | | | | | |
|  |  | M16 | 11 | HIP HIP.3/4.ST0.1.11.G HIP.3/4.ST0.1.M16.G | 1-1102600-5 0-1106408-1 | |
| | | M16 | 11 | HIP-K HIP-K.3/4.ST0.1.11.G HIP-K.3/4.ST0.1.M16.G | 2-1102600-5 0-1106408-2 | |
| | | M20 | | HIP-K.3/4.ST0.1.M20.G | 0-1106408-3 | |
| | M16 | 11 | EMV-K EMV-K.3/4.ST0.1.11.G EMV-K.3/4.ST0.1.M16.G | 4-1102700-5 0-1106402-2 | | |
| | M20 | | EMV-K.3/4.ST0.1.M20.G | 0-1106402-3 | | |
| | Surface mounted housing: Bottom entry | | | | | |
| |  |  | | | HIP HIP.3/4.AG | 1-1102603-5 |
| | | | | | HIP-K HIP-K.3/4.AG | 2-1102603-5 |
| | | | | | EMV-K EMV-K.3/4.AG | 4-1102703-5 |
| Surface mounted housing: Bottom entry (by panel cut-out) | | | | | | |
|  |  | | | HIP HIP.3/4.SGF | 1-1102602-5 | |
| | | | | HIP-K HIP-K.3/4.SGF | 2-1102602-5 | |
| | | | | EMV-K EMV-K.3/4.SGF | 4-1102702-5 | |

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


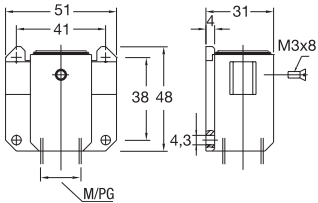

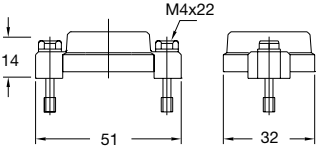
HIP: Pressure-tight, silver-grey

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 | Type | Part Number | |
|---|---|---|---|---|---|
| Surface mounted housing: Side entry | | | | | |
|  |  | M16 M20 | 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 | |
| | | | M16 | HIP-K HIP-K.3/4.SG.1.11.G HIP-K.3/4.SG.1.M16.G | 2-1102601-5 0-1106407-2 |
| | | | | EMV-K EMV-K.3/4.SG.1.11.G EMV-K.3/4.SG.1.M16.G EMV-K.3/4.SG.1.M20.G | 4-1102701-5 0-1106401-2 0-1106401-3 |
| | Protective covers for housings | | | | |
| |  |  | | HIP/EMV HIP/EMV.3/4.SKB | 3-1106200-5 |
| | | | | HIP-K/EMV-K HIP-K/EMV-K.3/4.SKB | 4-1106200-5 |

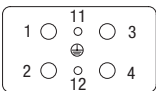
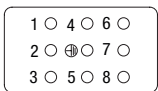
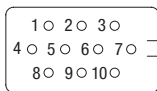
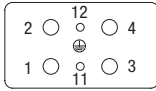
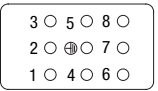
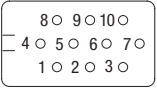
HQ-017, 4/2, 8, 10 Inserts

INSERTS FOR H8A HOOD/HOUSING

17+  4/2+  8+  10




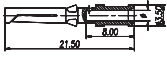
| Dimension (mm) | Type | Part Number | |
|---|---------------|---------------------|---------------------|
| | | Male insert | Female insert |
| Crimp terminal (order crimp contacts separately) | | | |
| 250V max. 10A  | HQ-017-M | T 2 08 017 2101-000 | |
| | HQ-017-F | | T 2 08 017 2201-000 |
| 400V/250V 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 insert | | |
|  |  |  |
| Contact arrangement Female insert | | |
|  |  |  |

Crimp contacts HN.D series

10A Contact

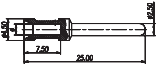



| Tech data Material: copper alloy Contact resistance: $\leq 3m\Omega$ Terminal: crimp connection CDM/Male | 10A Male crimp contacts  | Wire gauge | | Strip- ping length mm | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|-----------------|-------|--------------------------------|-------------------------------|---------------------|-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

Crimping tools HN.D series





| Description | | Type | Part Number |
|--|---|-----------------|---------------------|
| Crimp tool Wire range: 0.5-4.0mm ² Suitable for CDM/CDF and CEM/CEF contacts |  | CRIMPBOX-0.5/4 | T 3 10 000 0001-000 |
| Crimp tool Wire range: 0.14-4.0mm ² 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 resistance: $\leq 1\text{m}\Omega$ Terminal: crimp connection CEM/Male | 16A Male crimp contacts  | Wire gauge | | Strip- ping length mm | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|--|---|---|---|--------------------------------|-------------------------------|---------------------|-----------------------------|---------------------|
| | | mm ² | AWG | | Type | Part Number | Type | Part Number |
|  | | 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 |
| | | 0.5 | 20 | 7.5 | CEM-0.5 | T 2 03 000 1005-000 | DEM-0.5 | T 2 03 001 1005-000 |
| | | 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 crimp contacts  | 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 |
| 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 |
| 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 |

Crimping tools HE/HA series

| Description | | Type | Part Number |
|--|---|-----------------|---------------------|
| Crimp tool Wire range: 0.5-4.0mm ² Suitable for CDM/CDF and CEM/CEF contacts |  | CRIMPBOX-0.5/4 | T 3 10 000 0001-000 |
| Crimp tool Wire range: 0.14-4.0mm ² 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


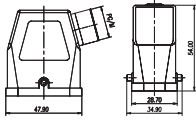

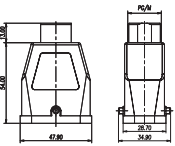
| Tech data | Type | Part Number | (mm ²) | Tool |
|---|--------------------------------|-------------|--------------------|----------|
| Material: copper alloy Finish: tin plated Contact resistance: ≤3mΩ Crimp Terminal: 0.2-4.0 mm ² AWG: 24-12 Other finishes and Materials on request Appl. Spec.: 114-18018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

Crimping tools HGQ10 series

| Description | Type | 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


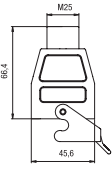
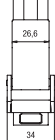

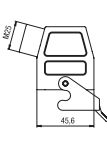
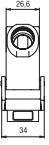

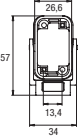
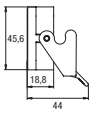
| Dimensions (mm) | Metr. | PG | Type | Part Number |
|---|-----------------------|------|---|--|
| Hood: Side entry | | | | |
|   | M20 M25 M25 | PG16 | H8A-TS-PG16 H8A-TS-M20 H8A-TS-M25 EMV HG-Q-EMV.STO.1.M25.Z | T 1 35 909 0116-000 T 1 31 908 0120-000 T 1 31 908 0125-000 0-1103073-3 |
| Hood: Top entry | | | | |
|   | M20 M25 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 | Type | Part Number |
|---|---|-----|-------------------------|-------------|
| Cable-to-cable hood: Bottom entry | | | | |
|  |  | M25 | HG-Q.KDO-LB.1.M25.Z | 0-1108795-1 |
| |  | M25 | HG-Q-EMV.KDO-LB.1.M25.Z | 0-1108795-3 |
| Cable-to-cable hood: Side entry | | | | |
|  |  | M25 | HG-Q.KDS-LB.1.M25.Z | 0-1108795-2 |
| |  | M25 | HG-Q-EMV.KDS-LB.1.M25.Z | 0-1108795-4 |
| Surface mount housing: Bottom entry | | | | |
|  |  | M25 | HG-Q.AG-LB | 0-1103072-1 |
| |  | M25 | HG-Q-EMV.AG-LB | 0-1103072-2 |





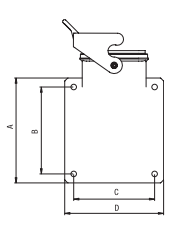

HG-Q.10 motor housings

Plastic glass-fibre reinforced

400V 20A

EMV: Protection against electro-magnetic interference

IP 65

| Description | Metr. | PG | Type | Part Number |
|---|--|----|--------------------------------|-------------|
|  | | | HG-Q.10.MC.1 | 0-1103092-1 |
| | | | EMV 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 |
| | | | EMV HG-Q.10-EMV.MC.4 | 1-1103092-1 |
|  | | | HG-Q.10.MC.5 | 0-1103092-5 |
| | | | EMV HG-Q.10-EMV.MC.5 | 1-1103092-2 |

Dimensions (mm)


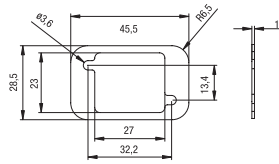



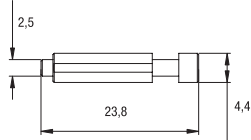
| PN | A | B | C | D |
|----------|-----|-----|-----|-----|
| 0-1, 0-8 | 70 | 58 | 54 | 66 |
| 0-2, 0-9 | 70 | 60 | 60 | 70 |
| 0-3, 1-0 | 74 | 56 | 56 | 74 |
| 0-4, 1-1 | 75 | 64 | 64 | 75 |
| 0-5, 1-2 | 120 | 105 | 105 | 120 |

HG-Q accessories

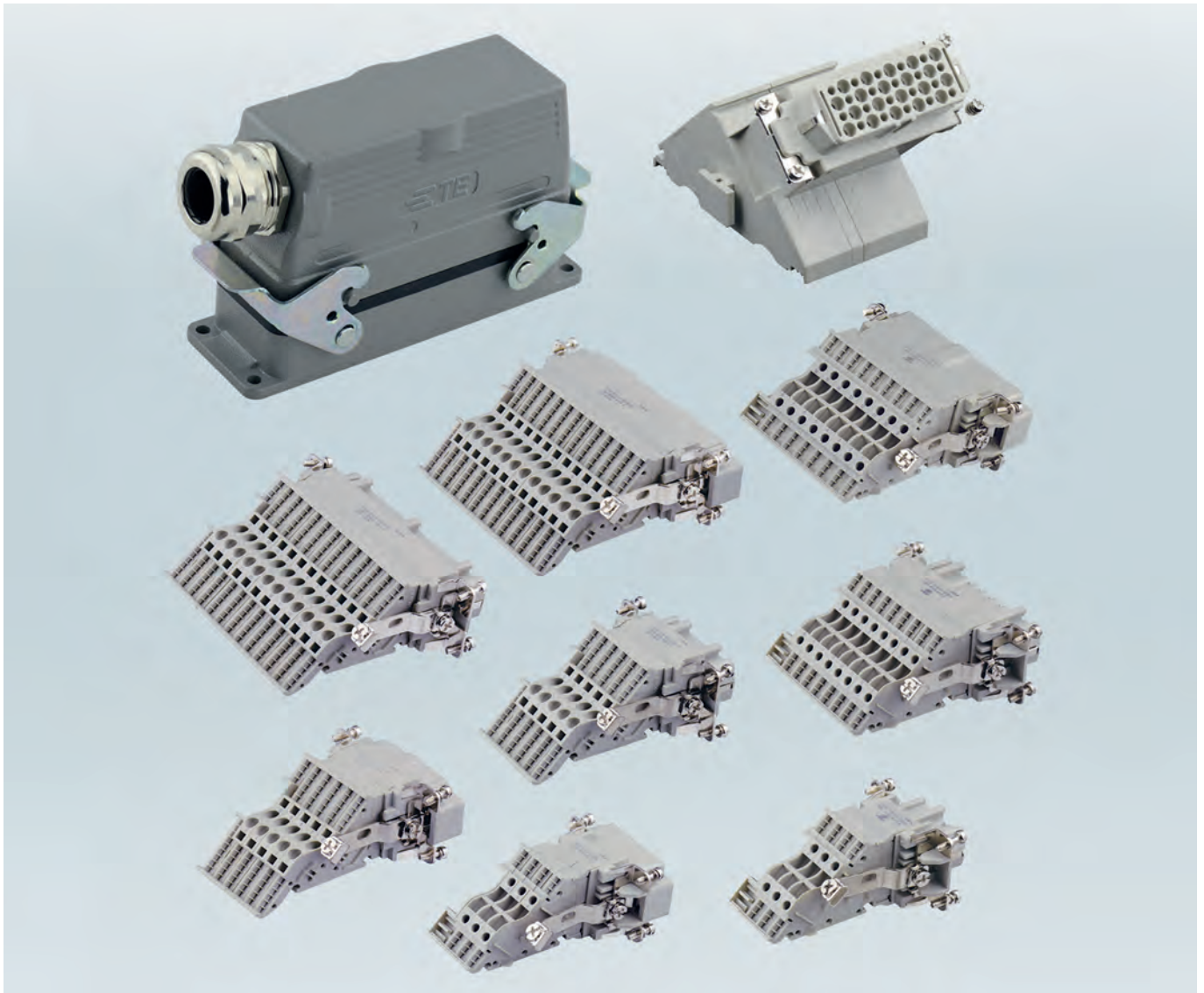
Plastic glass-fibre reinforced
EMV: Protection against electro-magnetic interference

SIZE Q

IP 65

| Description | Metr. | PG | Type | Part Number |
|---|--|----|--|--|
| Flange sealing for HG-Q.8 Surface mount housing | | | | |
|   | | | Conductive HG-Q.FI-dicht-L | 0-1108794-2 |
| Gland fitting, IP68 plastic | | | | |
|  <p>All glands are supplied with a black M25 nut</p> | 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 | | | | |
|   | | | Sich-Stift.HVE.C | 0-1110984-4 |

HEAV Contact Series



1. 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

SpecificationsDIN EN 60 664-1
DIN EN 61 984
 Number of contacts 6,10,16,24 + PE

INSERTS

Working current16A max
 (See current carrying capacity)
 Working voltage 500V
 Test voltage urms..... 6KV
 Test voltage urms acc. to TUV..... 4KV
 Pollution degree 2
 Insulation resistance $\geq 10^{10}\Omega$
 Material Polycarbonate
 Temperature range -40°C... +125°C
 Flammability acc. to UL94 V0
 Working voltage acc. to UL/CSA 600V
 Mechanical working life-mating cycles ≥ 500

CONTACTS

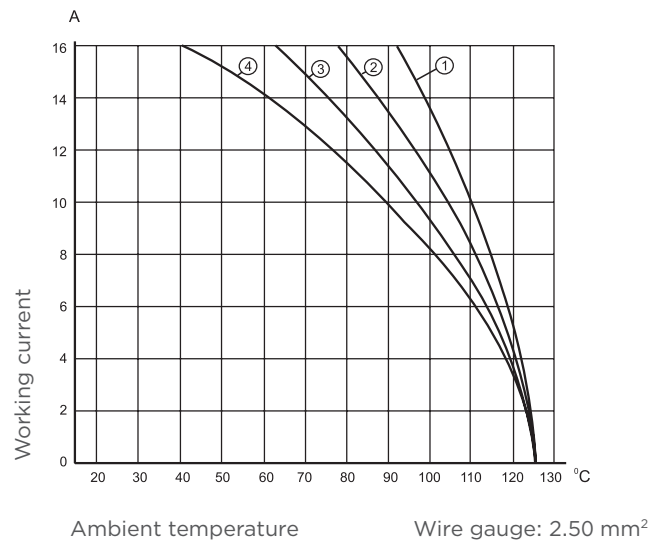
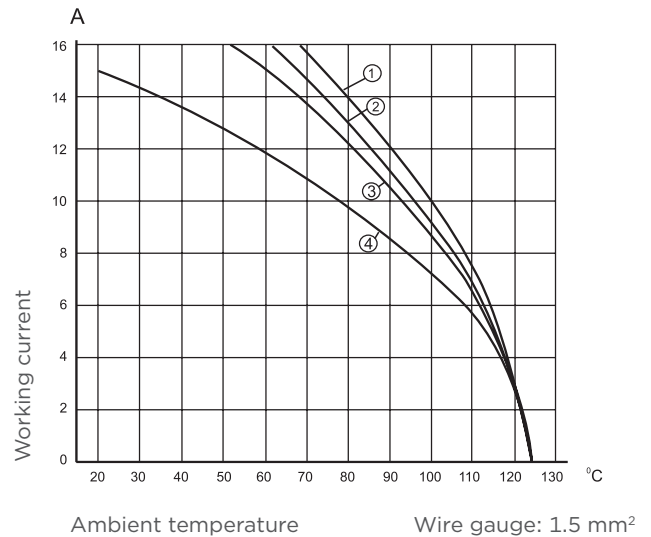
MaterialCopper alloy
 SurfaceHard silver-plated
 Contact resistance $\leq 4m\Omega$
 HEAV Terminal Screw terminal
 - mm² 0.2-2.5mm²
 - AWG 24-14
 HESAV TerminalSpring terminal
 - mm² 0.5-2.5mm²
 - AWG 20-14

HOODS, HOUSINGS

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

CURRENT CARRYING CAPACITY

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



- 1 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+ 
16+  24+ 

| Dimensions (mm) | Type | Type | Part Number | | | | | | | | | | | | | | | | |
|---|-------------------------------|------------|---------------------|---------------------|----|----|----------|----|----|----------|----|------|----------|----|-----|--|--|--|--|
| | | | Male insert | Female insert | | | | | | | | | | | | | | | |
| Screw terminal 6+  | | | | | | | | | | | | | | | | | | | |
|  | 6-pole | HEAV-006-M | T 2 09 006 2101-000 | | | | | | | | | | | | | | | | |
| | | HEAV-006-F | | T 2 09 006 2201-000 | | | | | | | | | | | | | | | |
| Screw terminal 10+  | | | | | | | | | | | | | | | | | | | |
|  | 10-pole | HEAV-010-M | T 2 09 010 2101-000 | | | | | | | | | | | | | | | | |
| | | HEAV-010-F | | T 2 09 010 2201-000 | | | | | | | | | | | | | | | |
| Left hand version | | | | | | | | | | | | | | | | | | | |
|  <table border="1" data-bbox="368 1111 655 1279"> <thead> <tr> <th>Male insert/ Female insert</th> <th>A</th> <th>B</th> </tr> </thead> <tbody> <tr> <td>HEAV-006</td> <td>20</td> <td>44</td> </tr> <tr> <td>HEAV-010</td> <td>34</td> <td>57</td> </tr> <tr> <td>HEAV-016</td> <td>54</td> <td>77.5</td> </tr> <tr> <td>HEAV-024</td> <td>81</td> <td>104</td> </tr> </tbody> </table> | Male insert/ Female insert | A | B | HEAV-006 | 20 | 44 | HEAV-010 | 34 | 57 | HEAV-016 | 54 | 77.5 | HEAV-024 | 81 | 104 | | | | |
| Male insert/ Female insert | A | B | | | | | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | | |
| | | HEAV-016-F | | T 2 09 016 2201-000 | | | | | | | | | | | | | | | |
| Screw terminal 24+  | | | | | | | | | | | | | | | | | | | |
|  | 24-pole | HEAV-024-M | T 2 09 024 2101-000 | | | | | | | | | | | | | | | | |
| | | HEAV-024-F | | T 2 09 024 2201-000 | | | | | | | | | | | | | | | |
| Left hand version | | | | | | | | | | | | | | | | | | | |
|  <table border="1" data-bbox="368 1850 655 1995"> <thead> <tr> <th>Male insert/ Female insert</th> <th>A</th> <th>B</th> </tr> </thead> <tbody> <tr> <td>HEAV-006</td> <td>20</td> <td>44</td> </tr> <tr> <td>HEAV-010</td> <td>34</td> <td>57</td> </tr> <tr> <td>HEAV-016</td> <td>54</td> <td>77.5</td> </tr> <tr> <td>HEAV-024</td> <td>81</td> <td>104</td> </tr> </tbody> </table> | Male insert/ Female insert | A | B | HEAV-006 | 20 | 44 | HEAV-010 | 34 | 57 | HEAV-016 | 54 | 77.5 | HEAV-024 | 81 | 104 | | | | |
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| HEAV-010 | 34 | 57 | | | | | | | | | | | | | | | | | |
| HEAV-016 | 54 | 77.5 | | | | | | | | | | | | | | | | | |
| HEAV-024 | 81 | 104 | | | | | | | | | | | | | | | | | |





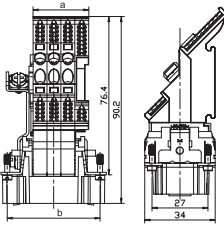




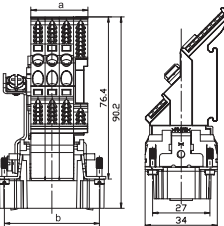


HESAV inserts

LEFT HAND VERSION
SPRING TERMINAL

500V MAX. 16A

6+  10+ 
16+  24+ 

| Dimensions (mm) | Type | Type | Part Number | | | | | | | | | | | | | | | | |
|---|-------------------------------|-------------|---------------------|---------------------|----|----|----------|----|----|----------|----|------|----------|----|-----|--|--|--|--|
| | | | Male insert | Female insert | | | | | | | | | | | | | | | |
| Spring terminal 6+  | | | | | | | | | | | | | | | | | | | |
|  | 6-pole | HEAV-006-MS | T 2 10 006 3101-000 | | | | | | | | | | | | | | | | |
| | | HEAV-006-FS | | T 2 10 206 3201-000 | | | | | | | | | | | | | | | |
| Spring terminal 10+  | | | | | | | | | | | | | | | | | | | |
|  | 10-pole | HEAV-010-MS | T 2 10 210 3101-000 | | | | | | | | | | | | | | | | |
| | | HEAV-010-FS | | T 2 10 210 3201-000 | | | | | | | | | | | | | | | |
| Left hand version | | | | | | | | | | | | | | | | | | | |
|  <table border="1" data-bbox="368 1111 655 1279"> <thead> <tr> <th>Male insert/ Female insert</th> <th>A</th> <th>B</th> </tr> </thead> <tbody> <tr> <td>HEAV-006</td> <td>20</td> <td>44</td> </tr> <tr> <td>HEAV-010</td> <td>34</td> <td>57</td> </tr> <tr> <td>HEAV-016</td> <td>54</td> <td>77.5</td> </tr> <tr> <td>HEAV-024</td> <td>81</td> <td>104</td> </tr> </tbody> </table> | Male insert/ Female insert | A | B | HEAV-006 | 20 | 44 | HEAV-010 | 34 | 57 | HEAV-016 | 54 | 77.5 | HEAV-024 | 81 | 104 | | | | |
| 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+  | | | | | | | | | | | | | | | | | | | |
|  | 16-pole | HEAV-016-MS | T 2 10 216 3101-000 | | | | | | | | | | | | | | | | |
| | | HEAV-016-FS | | T 2 10 216 3201-000 | | | | | | | | | | | | | | | |
| Spring terminal 24+  | | | | | | | | | | | | | | | | | | | |
|  | 24-pole | HEAV-024-MS | T 2 10 224 3101-000 | | | | | | | | | | | | | | | | |
| | | HEAV-024-FS | | T 2 10 224 3201-000 | | | | | | | | | | | | | | | |
| Left hand version | | | | | | | | | | | | | | | | | | | |
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| 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 connectors overview

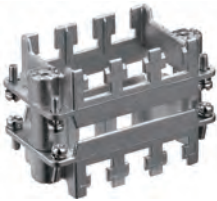
H10A



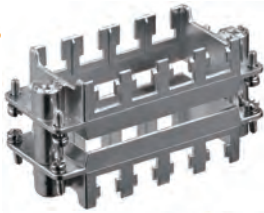
H6B



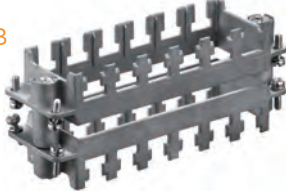
H10B



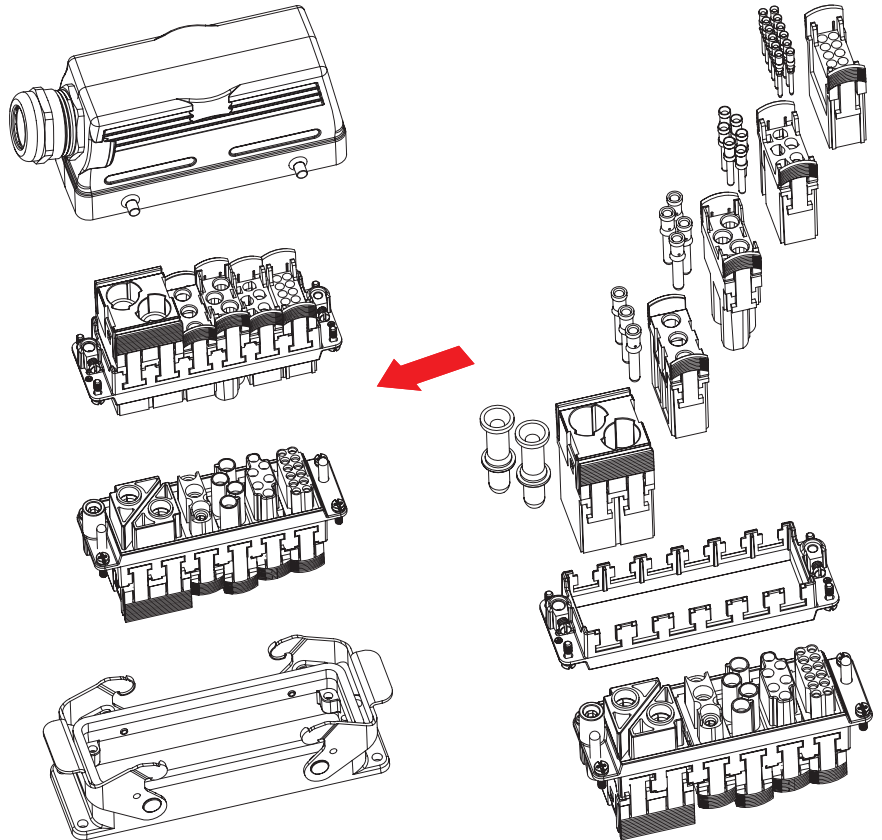
H16B



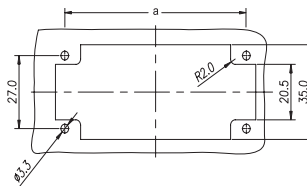
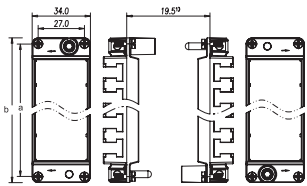
H24B



MODULAR UNITS, INSTALL AND REMOVE WITHOUT SPECIAL TOOLS!



HMN MODULE FIXING FRAME



| Hood/Housing | NO. of modules | a | b |
|--------------|----------------|------|------|
| H10A | 1 | 49.5 | 56.5 |
| H6B | 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 | Type |
|--------------------------|------|---------------------|------------|
| H10A frame for 1 modules | H10A | T 2 07 910 4201-000 | H10A-T1-M |
| | | T 2 07 910 4101-000 | H10A-T1-F |
| H6B frame for 2 modules | H6B | T 2 07 006 4101-000 | H6BN-T2-M |
| | | 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 |
| H16B frame for 4 modules | H16B | T 2 07 016 4101-000 | H16BN-T4-M |
| | | T 2 07 016 4201-000 | H16BN-T4-F |
| H24B frame for 6 modules | H24B | T 2 07 024 4101-000 | H24BN-T6-M |
| | | T 2 07 024 4201-000 | H24BN-T6-F |



Notes

Lined area for notes, consisting of 21 horizontal lines.



200A/1 Pole module technical characteristics

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

INSERTS

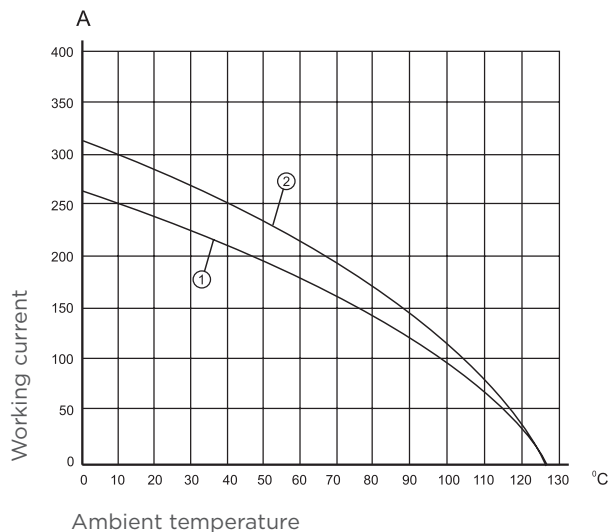
Working current 200A max
 (See current carrying capacity)
 Working voltage 1000V
 Test voltage urms 8KV
 Pollution degree 3
 Insulation resistance $\geq 10^{10}\Omega$
 Material Polycarbonate
 Temperature range -40°C... +125°C
 Flammability acc. to UL94 V0
 Working voltage acc. to UL/CSA 600V
 Mechanical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

CONTACTS

Material Copper alloy
 Surface Hard silver-plated
 Contact resistance $\leq 0.3m\Omega$
 Terminal Crimp terminal
 - mm² 25-70mm²
 - AWG 2-0

CURRENT CARRYING CAPACITY

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




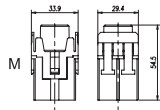

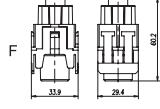
- 1 H24B hood/housing with 3 modules;
wire gauge: 50mm²
- 2 H24B hood/housing with 3 modules;
wire gauge: 70mm²

HMN-001 module inserts

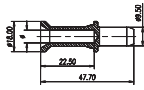


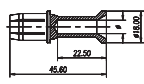
CRIMP TERMINAL

1000V MAX. 200A

1 Pole

| Dimensions (mm) | | Type | Part Number | |
|---|---|------------|---------------------|---------------------|
| | | | Male insert | Female insert |
| Crimp terminal | Size chart | | | |
|  |  | HMN-001-MC | T 2 11 101 3101-000 | |
|  |  | HMN-001-FC | | T 2 11 101 3201-000 |

200A Contact

| Tech data Material: copper Contact resistance: $\leq 0.3m\Omega$ Terminal: crimp connection CHM/Male | 200A Male crimp contacts  | Wire gauge | \varnothing | Stripping length mm | Crimp contacts, silver-plated | |
|---|--|-----------------|---------------|---------------------------|-------------------------------|---------------------|
| | | mm ² | | | Type | Part Number |
|  | | 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 |
| | | 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 |
| | | 35 | 8.2 | 22.5 | CHF-35 | T 2 06 000 2035-000 |
| | | 50 | 10.0 | 22.5 | CHF-50 | T 2 06 000 2050-000 |
| | | 70 | 11.5 | 22.5 | CHF-70 | T 2 06 000 2070-000 |

100A/2 Poles module technical characteristics

Specifications DIN EN 60 664-1
 DIN EN 61 984
 Number of contacts 2 poles

INSERTS

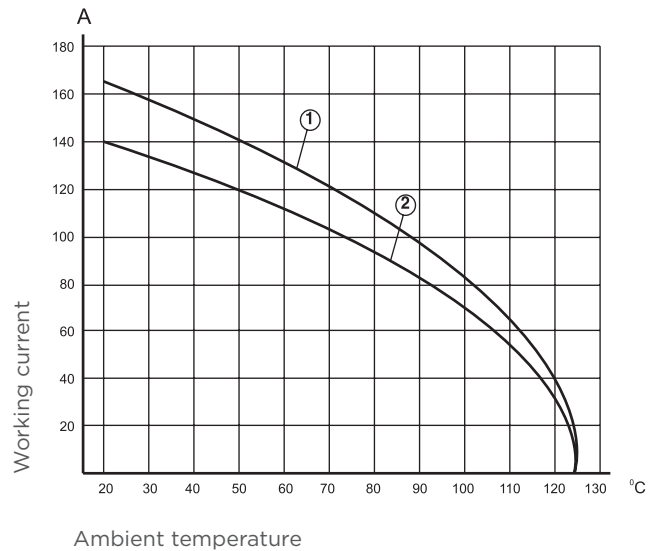
Working current 100A max
 (See current carrying capacity)
 Working voltage 1000V
 Test voltage urms 8KV
 Pollution degree 3
 Insulation resistance $\geq 10^{10}\Omega$
 Material Polycarbonate
 Temperature range -40°C... +125°C
 Flammability acc. to UL94 V0
 Working voltage acc. to UL/CSA 600V
 Mechanical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

CONTACTS

Material Copper alloy
 Surface Hard silver-plated
 Contact resistance $\leq 0.3m\Omega$
 Terminal Crimp terminal
 - mm² 10-35mm²
 - AWG 6-2

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.




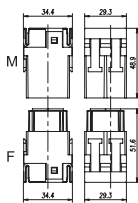

- 1 H24B hood/housing with 3 modules;
wire gauge: 35mm²
- 2 H24B hood/housing with 3 modules;
wire gauge: 25mm²

HMN-D2 module inserts

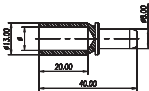


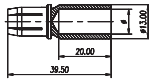
CRIMP TERMINAL

1000V MAX. 100A

2 Poles

| Dimensions (mm) | | Type | Part Number | |
|---|--|-----------|---------------------|---------------------|
| | | | Male insert | Female insert |
| Crimp terminal | Size chart | | | |
|  |  | HMN-D2-MC | T 2 11 102 8101-000 | |
| | | HMN-D2-FC | | T 2 11 102 8201-000 |
| Contact arrangement view from termination side |  | | | |

100A Contact

| Tech data Material: copper alloy Contact resistance: $\leq 1\text{m}\Omega$ Terminal: crimp connection CDM/Male | 100A Male crimp contacts  | Wire gauge | \varnothing | Stripping length | Crimp contacts, silver-plated | |
|--|--|-----------------|---------------|---------------------|-------------------------------|---------------------|
| | | mm ² | | mm | Type | Part Number |
|  | | 10 | 4.3 | 19 | CNM-10 | T 2 05 000 1010-000 |
| | | 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 |
| | | 35 | 8.2 | 16 | CNF-35 | T 2 05 000 2035-000 |

70A/2 Poles module technical characteristics

Specifications DIN EN 60 664-1
 DIN EN 61 984
 Number of contacts 2 poles

INSERTS

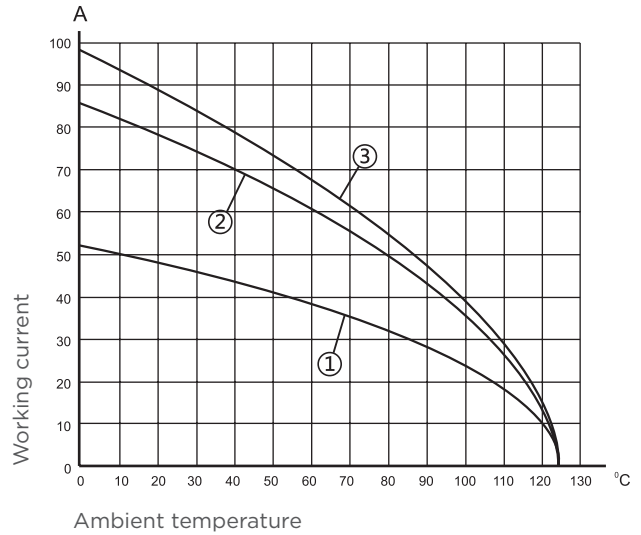
Working current 70A max
 (See current carrying capacity)
 Working voltage 1000V
 Test voltage urms 8KV
 Pollution degree 3
 Insulation resistance $\geq 10^{10}\Omega$
 Material Polycarbonate
 Temperature range -40°C... +125°C
 Flammability acc. to UL94 V0
 Working voltage acc. to UL/CSA 600V
 Mechanical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

CONTACTS

Material Copper alloy
 Surface Hard silver-plated
 Contact resistance $\leq 0.5m\Omega$
 Terminal Crimp terminal
 - mm² 6-22mm²
 - AWG 8-4

CURRENT CARRYING CAPACITY

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




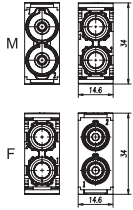
- 1 H24B hood/housing with 6 modules;
wire gauge: 6mm²
- 2 H24B hood/housing with 6 modules;
wire gauge: 16mm²
- 3 H24B hood/housing with 6 modules;
wire gauge: 22mm²

HMN-002 module inserts

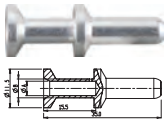
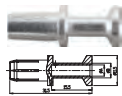
CRIMP TERMINAL

1000V MAX. 70A

2 Poles

| Dimensions (mm) | | Type | Part Number | |
|---|---|------------|---------------------|---------------------|
| | | | Male insert | Female insert |
| Crimp terminal (order crimp contacts separately) | Contact arrangement view from termination side | | | |
|  |  | HMN-002-MC | T 2 11 102 0101-000 | |
| | | HMN-002-FC | | T 2 11 102 0201-000 |

70A Contact

| Male |  | Wire gauge | | A | B | Crimp contacts, silver-plated | |
|--------|---|---------------------|------|-----|------|-------------------------------|---------------------|
| | | mm ² | AWG | | | Type | Part Number |
| Female |  | 10.0mm ² | AWG7 | 4.3 | 5.6 | CSM-10 | T 2 40 000 1100-000 |
| | | 16.0mm ² | AWG5 | 5.5 | 8.5 | CSM-16 | T 2 40 000 1160-000 |
| | | 25.0mm ² | AWG3 | 7.0 | 10.0 | CSM-25 | T 2 40 000 1250-000 |
| | | 10.0mm ² | AWG7 | 4.3 | 5.6 | CSF-10 | T 2 40 000 2100-000 |
| | | 16.0mm ² | AWG5 | 5.5 | 8.5 | CSF-16 | T 2 40 000 2160-000 |
| | | 25.0mm ² | AWG3 | 7.0 | 10.0 | CSF-25 | T 2 40 000 2250-000 |

40A/3 Poles module technical characteristics

Specifications DIN EN 60 664-1
 DIN EN 61 984
 Number of contacts 3 poles

CURRENT CARRYING CAPACITY

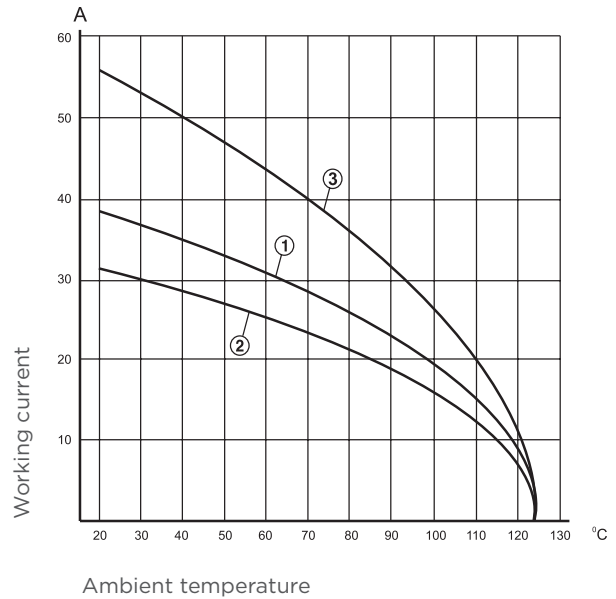
The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals. Control and test procedures according to DIN IEC 60512-3.

INSERTS

Working current40A 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 $\geq 10^{10}\Omega$
 Material Polycarbonate
 Temperature range -40°C... +125°C
 Flammability acc. to UL94 V0
 Working voltage acc. to UL/CSA 600V
 Mechanical working life-mating cycles ≥ 500

CONTACTS

Material Copper alloy
 Surface Hard silver-plated
 Contact resistance $\leq 0.3m\Omega$
 Terminal Crimp terminal
 - mm² 1.0-6mm²
 - AWG 18-10




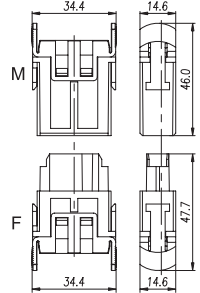
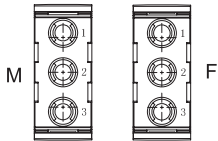
- 1 H24B hood/housing with 6 modules;
wire gauge: 6.0mm²
- 2 H24B hood/housing with 6 modules;
wire gauge: 4.0mm²
- 3 H24B hood/housing with 6 modules;
wire gauge: 10.0mm²

HMN-003 module inserts


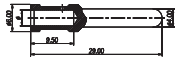

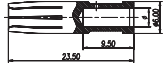
CRIMP TERMINAL

690V MAX. 40A

3 Poles

| Dimensions (mm) | | Type | Part Number | |
|---|---|-----------|---------------------|---------------------|
| | | | Male insert | Female insert |
| Crimp terminal | Size chart | | | |
|  |  | HMN-003-M | T 2 11 103 2101-000 | |
| | | HMN-003-F | | T 2 11 103 2201-000 |
| Contact arrangement view from termination side |  | | | |

40A Contact

| Tech data | 40A Male crimp contacts | Wire gauge | | Stripping length | Crimp contacts, silver-plated | |
|---|---|--|---|------------------|-------------------------------|---------------------|
| | | mm ² | AWG | | Type | Part Number |
| Material: copper alloy Contact resistance: ≤0.3mΩ Terminal: crimp connection CMM/Male  |  | 1.5 | 16 | 8.0 | CMM-1.5 | T 2 04 000 1015-000 |
| | | 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 |
| | | 10 | 7 | 8.0 | CMM-10 | T 2 04 000 1100-000 |
| | | CMF/Female  | 40A Female crimp contacts  | 1.5 | 16 | 8.0 | CMF-1.5 | T 2 04 000 2015-000 |
| 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 |
| 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 |

40A/4 Poles module technical characteristics

Specifications DIN EN 60 664-1
 DIN EN 61 984
 Number of contacts 4 poles

INSERTS

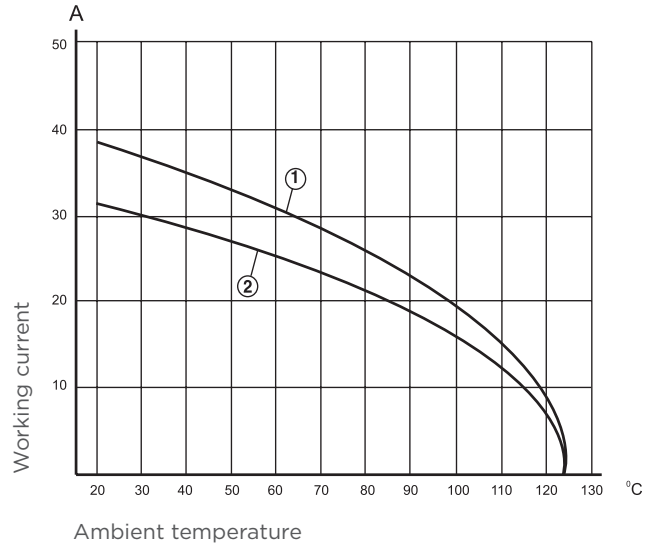
Working current 40A max
 (See current carrying capacity)
 Working voltage
 Cable \varnothing up to 5mm 830V
 Cable \varnothing up to 7.5mm 500V
 Test voltage urms 8KV
 Pollution degree 3
 Insulation resistance $\geq 10^{10}\Omega$
 Material Polycarbonate
 Temperature range -40°C... +125°C
 Flammability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

CONTACTS

Material Copper alloy
 Surface Hard silver-plated
 Contact resistance $\leq 0.3m\Omega$
 Terminal Crimp terminal
 - mm² 1.0-6mm²
 - AWG 18-10

CURRENT CARRYING CAPACITY

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




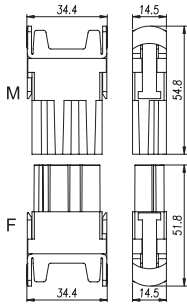
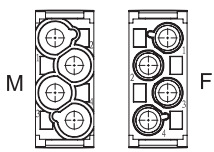
- 1 H24B hood/housing with 6 modules;
wire gauge: 6.0mm²
- 2 H24B hood/housing with 6 modules;
wire gauge: 4.0mm²

HMN-004 module inserts




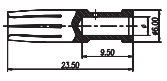
CRIMP TERMINAL

830V MAX. 40A

4 Poles

| Dimensions (mm) | | Type | Part Number | |
|---|---|-----------|---------------------|---------------------|
| | | | Male insert | Female insert |
| Crimp terminal | Size chart | | | |
|  |  | HMN-004-M | T 2 11 104 2101-000 | |
| | | HMN-004-F | | T 2 11 104 2201-000 |
| Contact arrangement view from termination side |  | | | |

40A Contact

| Tech data Material: copper alloy Contact resistance: $\leq 0.3\text{m}\Omega$ Terminal: crimp connection CMM/Male  | 40A Male crimp contacts  | Wire gauge | | Stripping length mm | Crimp contacts, silver-plated | |
|---|--|-----------------|-----|------------------------|-------------------------------|---------------------|
| | | mm ² | AWG | | Type | Part Number |
| | | 1.5 | 16 | 8.0 | CMM-1.5 | T 2 04 000 1015-000 |
| | | 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 |
| | | 10 | 7 | 8.0 | CMM-10 | T 2 04 000 1100-000 |
| CMF/Female  | 40A Female crimp contacts  | 1.5 | 16 | 8.0 | CMF-1.5 | T 2 04 000 2015-000 |
| | | 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 |
| | | 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 |

16A/5 Poles module technical characteristics

| | |
|--------------------------|-----------------|
| Specifications | DIN EN 60 664-1 |
| ..... | DIN EN 61 984 |
| Number of contacts | 5 poles |

INSERTS

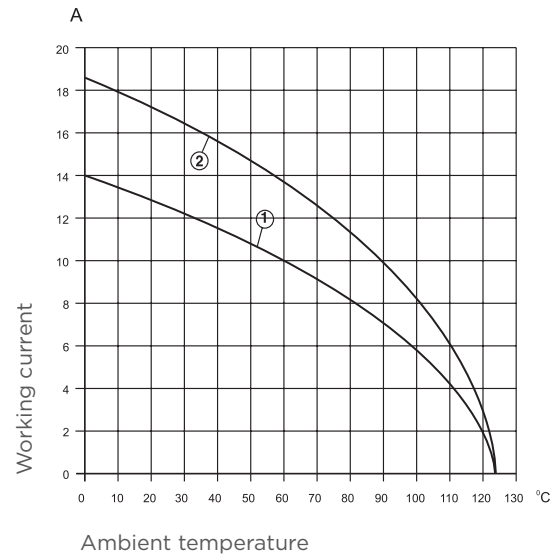
| | |
|---|----------------------|
| Working current | 16A max |
| (See current carrying capacity) | |
| Working voltage..... | 400V |
| Test voltage urms | 6KV |
| Pollution degree | 3 |
| Insulation resistance | $\geq 10^{10}\Omega$ |
| Material | Polycarbonate |
| Temperature range | -40°C... +125°C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

CONTACTS

| | |
|--------------------------|------------------------|
| Material | Copper alloy |
| Surface | Hard silver-plated |
| ..... | Hard gold-plated |
| Contact resistance | $\leq 3m\Omega$ |
| Terminal | Spring terminal |
| - mm ² | 0.5-2.5mm ² |
| - AWG | 20-14 |

CURRENT CARRYING CAPACITY

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




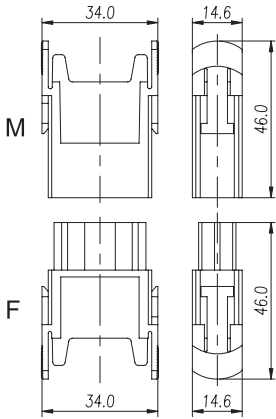

- 1 H24B hood/housing with 6 modules;
wire gauge: 2.5mm²
- 2 H24B hood/housing with 6 modules;
wire gauge: 1.5mm²

HMN-005 module inserts

SPRING TERMINAL

400V MAX. 16A

5 Poles

| Dimensions (mm) | | Type | Part Number | |
|--|---|------------|---------------------|---------------------|
| | | | Male insert | Female insert |
| Spring terminal | Size chart | | | |
|  |  | HMN-005-MS | T 2 11 005 2101-000 | |
| | | HMN-005-FS | | T 2 11 005 2201-000 |
| Contact arrangement view from termination side |  | | | |

16A/6 Poles module technical characteristics

Specifications DIN EN 60 664-1
 DIN EN 61 984
 Number of contacts 6 poles

INSERTS

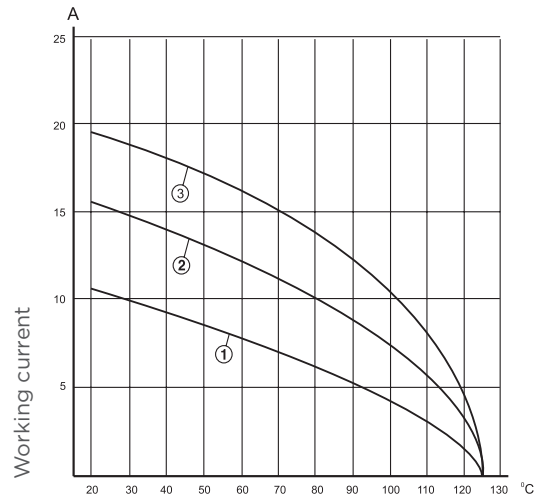
Working current 16A max
 (See current carrying capacity)
 Working voltage 500/830V
 Test voltage urms
 HMN-006-M/F 6KV
 HMN-006-PM/F 8KV
 Pollution degree 3
 Insulation resistance $\geq 10^{10}\Omega$
 Material Polycarbonate
 Temperature range -40°C... +125°C
 Flammability acc. to UL94 V0
 Working voltage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

CONTACTS

Material Copper alloy
 Surface Hard silver-plated
 Hard gold-plated
 Contact resistance $\leq 1m\Omega$
 Terminal Crimp terminal
 - mm² 0.14-4.0mm²
 - AWG 26-12

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.




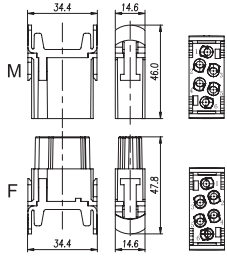

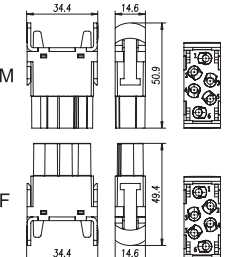
Ambient temperature

- 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


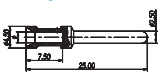

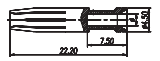
HMN-006 module inserts

CRIMP TERMINAL

6 Poles

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

16A Contact

| Tech data Material: copper alloy Contact resistance: $\leq 1\text{m}\Omega$ Terminal: crimp connection CEM/Male  | 16A Male crimp contacts  | Wire gauge | | Strip-ping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|--|---|--|-------------------|-------------------------------|---------------------|-----------------------------|---------------------|
| | | mm ² | AWG | | Type | Part Number | Type | Part Number |
| | | 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 |
| | | 0.5 | 20 | 7.5 | CEM-0.5 | T 2 03 000 1005-000 | DEM-0.5 | T 2 03 001 1005-000 |
| | | 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 crimp contacts  | 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 |
| 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 |
| 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 |

16A/8 Poles module technical characteristics

Specifications DIN EN 60 664-1
 DIN EN 61 984
 Number of contacts 8 poles

INSERTS

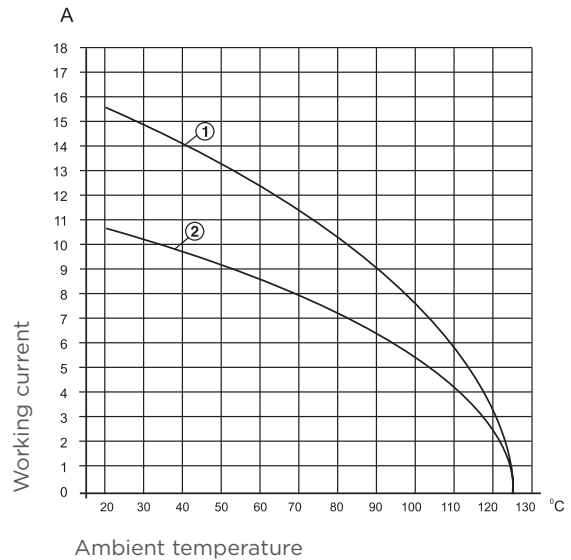
Working current 16A max
 (See current carrying capacity)
 Working voltage 400V
 Test voltage urms 6KV
 Pollution degree 3
 Insulation resistance $\geq 10^{10}\Omega$
 Material Polycarbonate
 Temperature range -40°C... +125°C
 Flammability acc. to UL94 V0
 Working voltage acc. to UL/CSA 600V
 Mechanical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

CONTACTS

Material Copper alloy
 Surface Hard silver-plated
 Hard gold-plated
 Contact resistance $\leq 1m\Omega$
 Terminal Crimp terminal
 - mm² 0.14-4.0mm²
 - AWG 26-12

CURRENT CARRYING CAPACITY

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




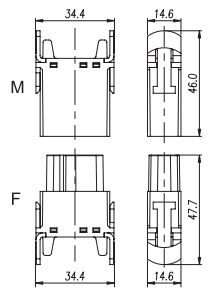
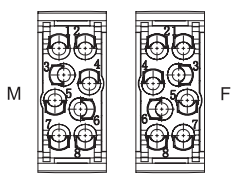
- 1 H24B hood/housing with 6 modules;
wire gauge: 2.5mm²
- 2 H24B hood/housing with 6 modules;
wire gauge: 1.5mm²

HMN-008 module inserts


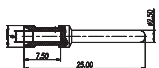

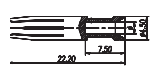
CRIMP TERMINAL

400V MAX. 16A

8 Poles

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

16A Contact

| Tech data | 16A Male crimp contacts | Wire gauge | | Strip-ping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|--|---|---|---|-------------------|-------------------------------|---------------------|-----------------------------|---------------------|
| | | mm ² | AWG | | Type | Part Number | Type | Part Number |
| Material: copper alloy Contact resistance: ≤1mΩ Terminal: crimp connection CEM/Male  |  | 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 |
| | | 0.5 | 20 | 7.5 | CEM-0.5 | T 2 03 000 1005-000 | DEM-0.5 | T 2 03 001 1005-000 |
| | | 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  |  | 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 |
| 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 |
| 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 |

10A/12 Poles module technical characteristics

| | |
|--------------------------|-----------------|
| Specifications | DIN EN 60 664-1 |
| ..... | DIN EN 61 984 |
| Number of contacts | 12 poles |

INSERTS

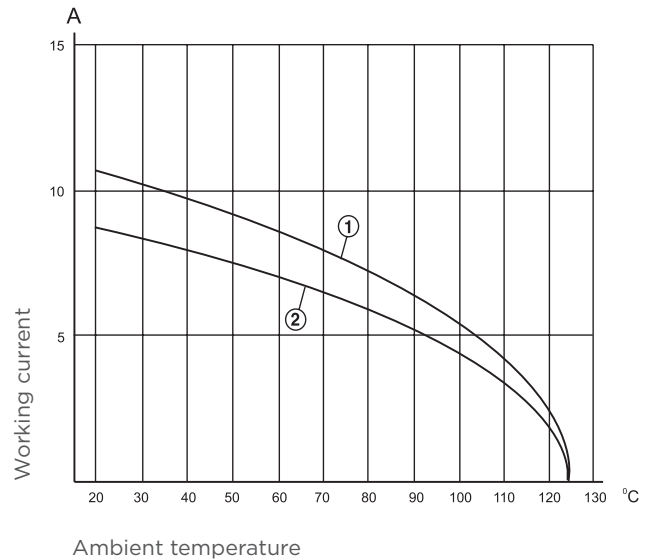
| | |
|---|----------------------|
| Working current | 10A max |
| (See current carrying capacity) | |
| Working voltage..... | 250V |
| Test voltage urms | 4KV |
| Pollution degree | 3 |
| Insulation resistance | $\geq 10^{10}\Omega$ |
| Material | Polycarbonate |
| Temperature range | -40°C... +125°C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

CONTACTS

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

CURRENT CARRYING CAPACITY

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




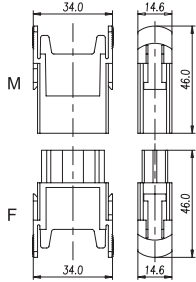
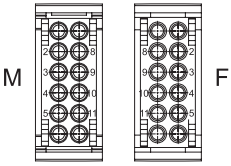
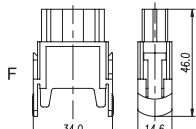
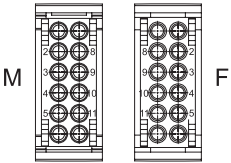
- 1 H24B hood/housing with 6 modules; wire gauge: 1.5mm²
- 2 H24B hood/housing with 6 modules; wire gauge: 1.0mm²

HMN-012 module inserts


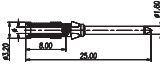

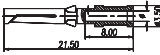
CRIMP TERMINAL

250V MAX. 10A

12 Poles

| Dimensions (mm) | | Type | Part Number | |
|---|---|-----------|---------------------|---------------------|
| | | | Male insert | Female insert |
| Crimp terminal (Order crimp contacts separately) | Size chart | | | |
|  |  | HMN-012-M | T 2 11 112 2101-000 | |
|  |  | HMN-012-F | | T 2 11 112 2201-000 |
| Contact arrangement view from termination side |  | | | |

10A Contact

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

10A/17 Poles module technical characteristics

| | |
|--------------------------|-----------------|
| Specifications | DIN EN 60 664-1 |
| ..... | DIN EN 61 984 |
| Number of contacts | 17 poles |

INSERTS

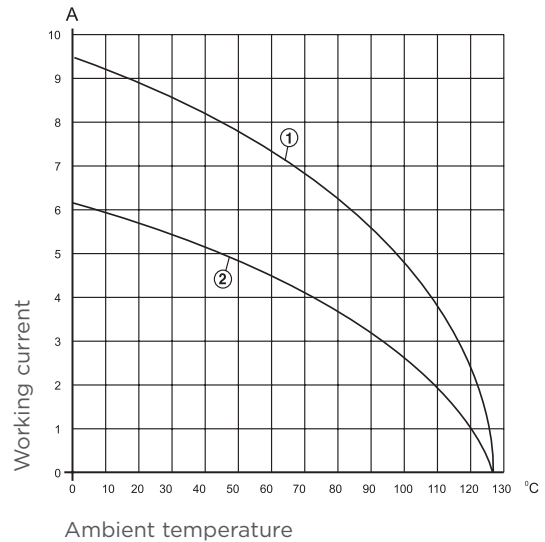
| | |
|---|----------------------|
| Working current | 10A max |
| (See current carrying capacity) | |
| Working voltage..... | 160V |
| Test voltage urms | 2.5KV |
| Pollution degree | 3 |
| Pollution degree acc. to TUV | 2 |
| Insulation resistance | $\geq 10^{10}\Omega$ |
| Material | Polycarbonate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

CONTACTS

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

CURRENT CARRYING CAPACITY

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




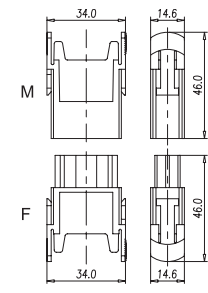
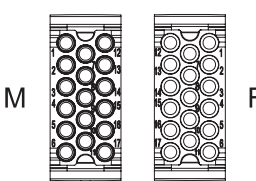
- 1 H24B hood/housing with 6 modules;
wire gauge: 1.5mm²
- 2 H24B hood/housing with 6 modules;
wire gauge: 1.0mm²

HMN-017 module inserts


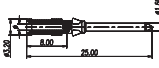

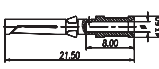
CRIMP TERMINAL

160V MAX. 10A

17 Poles

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

10A Contact

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

16A/20 Poles module technical characteristics

SpecificationsDIN EN 60 664-1
DIN EN 61 984
 Number of contacts20 poles

INSERTS

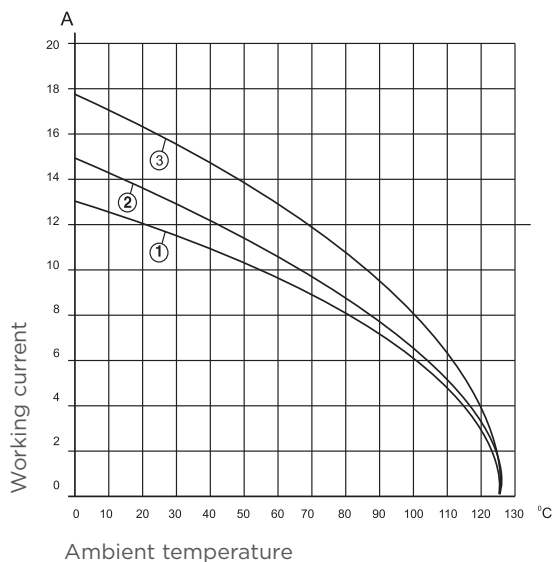
Working current16A max
 (See current carrying capacity)
 Working voltage..... 500V
 Test voltage urms 6KV
 Pollution degree 3
 Insulation resistance $\geq 10^{10}\Omega$
 Material Polycarbonate
 Temperature range -40°C... +125°C
 Flammability acc. to UL94 V0
 Working voltage acc. to UL/CSA 600V
 Mechanical working life-mating cycles ≥ 500

CONTACTS

MaterialCopper alloy
 SurfaceHard silver-plated
Hard gold-plated
 Contact resistance $\leq 1m\Omega$
 Terminal Crimp terminal
 - mm² 0.14-4.0mm²
 - AWG 26-12

CURRENT CARRYING CAPACITY

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




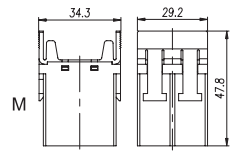

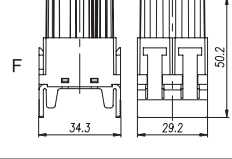
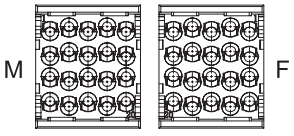
- 1 H24B hood/housing with 3 modules; wire gauge: 1.5mm²
- 2 H24B hood/housing with 3 modules; wire gauge: 2.5mm²
- 3 H24B hood/housing with 3 modules; wire gauge: 4mm²

HMN-020 module inserts


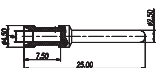

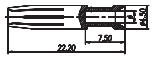
CRIMP TERMINAL

500V MAX. 16A

20 Poles

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

16A Contact

| Tech data | 16A Male crimp contacts | Wire gauge | | Strip-ping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|--|---|-----------------|-------|-------------------|-------------------------------|---------------------|-----------------------------|---------------------|
| | | mm ² | AWG | | Type | Part Number | Type | Part Number |
| Material: copper alloy Contact resistance: ≤1mΩ Terminal: crimp connection CEM/Male  |  | 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 |
| | | 0.5 | 20 | 7.5 | CEM-0.5 | T 2 03 000 1005-000 | DEM-0.5 | T 2 03 001 1005-000 |
| | | 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  |  | 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 |
| | | 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 |
| | | 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 |



5A/25 Poles module technical characteristics

Specifications DIN EN 60 664-1
 DIN EN 61 984
 Number of contacts 25 poles

INSERTS

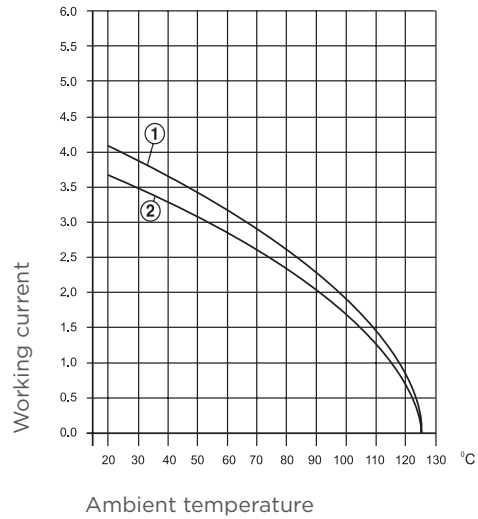
Working current 5A max
 (See current carrying capacity)
 Working voltage 50V
 Test voltage urms 0.8KV
 Pollution degree 3
 Insulation resistance $\geq 10^{10}\Omega$
 Material Polycarbonate
 Temperature range -40°C... +125°C
 Flammability acc. to UL94 V0
 Mechanical working life-mating cycles ≥ 500

CONTACTS

Material Copper alloy
 Surface Hard silver-plated
 Hard gold-plated
 Contact resistance $\leq 1m\Omega$
 Terminal Crimp terminal
 - mm² 0.08-0.52mm²
 - AWG 28-20

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.



Turned contacts

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

Stamped contacts


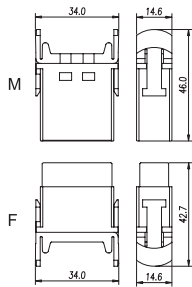
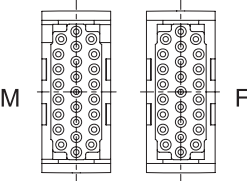
2 H24B hood/housing with 6 modules;
 wire gauge: 0.5mm²

HMN-025 module inserts

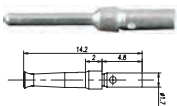
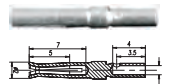
CRIMP TERMINAL

50V MAX. 5A

25 poles

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

5A Contact

| Male |  | Wire gauge | | Strip-ping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|--------|---|-----------------|-------|-------------------|-------------------------------|---------------------|-----------------------------|---------------------|
| | | mm ² | AWG | | mm | Type | Part Number | Type | Part Number |
| Female |  | 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 |
| | | 0.08-0.21 | 28-24 | 5.0 | CAF-08 | T 2 07 000 2008-000 | DAF-08 | T 2 07 001 2008-000 |
| | | 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

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

INSERTS

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

CONTACTS

Material Copper alloy
Surface Hard silver-plated
..... Hard gold-plated
Contact resistance $\leq 1m\Omega$
Terminal Crimp terminal

RJ45 MODULE TECHNICAL CHARACTERISTICS

Specifications DIN EN 60 664-1
..... DIN EN 61 984
Number of contacts 8 poles

INSERTS

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

MODULE WITH RJ45 TERMINAL


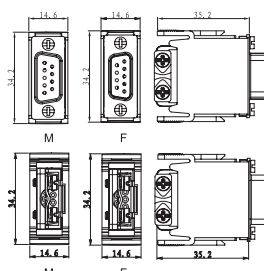

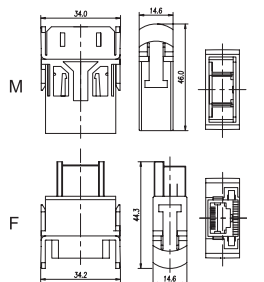

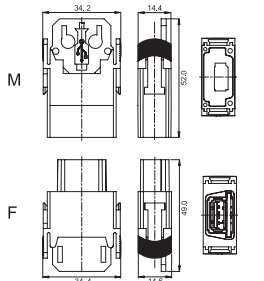
Material Polycarbonate
Temperature range -40°C... +70°C
Flammability acc. to UL94 V0
Stranded wire diameter 0.89-0.99mm
Wire gauge AWG24-26

Material Polycarbonate
Temperature range -40°C... +70°C
Flammability acc. to UL94 V0
Stranded wire diameter 0.94-1.07mm
Wire gauge AWG22-24

D-Sub/RJ45/USB module inserts

CRIMP TERMINAL

9 Poles & 8 Poles & USB

| Dimensions (mm) | | Type | Part Number | |
|---|---|-------------|---------------------|---------------------|
| | | | Male insert | Female insert |
| Crimp terminal (Order crimp contacts separately) | Size chart | | | |
|  |  | HMN-009-M | T 2 11 109 2101-000 | |
| | | HMN-009-F | | T 2 11 109 2201-000 |
|  |  | HMN-RJ45-MC | T 2 11 300 0101-100 | |
| | | HMN-RJ45-F | | T 2 11 300 0201-000 |
|  |  | HMN-USB-M | T 2 11 400 0101-000 | |
| | | 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 $\geq 10^{10} \Omega$
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.....16A max
- Quint 410A max
- Quint 8 5A max
Working voltage.....50V
Test voltage urms.....0.8KV
Pollution degree 3
Quint 8 Pollution degree acc. to TUV 2
Insulation resistance $\geq 10^{10} \Omega$
Material Polycarbonate
Temperature range -40°C ... +125°C
Flammability acc. to UL 94 V0
Mechanical working life-mating cycles..... ≥ 500

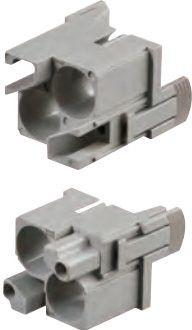
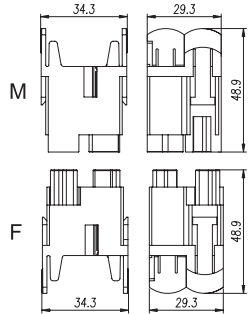
CONTACTS

Material Copper alloy
Surface Hard silver-plated
..... Hard gold-plated
Contact resistance..... $\leq 3m\Omega$
Terminal Crimp terminal
- mm²
- Quint 1.....0.14-4mm²
- Quint 40.14-2.5mm²
- 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) | | Type | Part Number | |
|---|---|----------|---------------------|---------------------|
| | | | Male insert | Female insert |
| Crimp terminal (Order crimp contacts separately) | Size chart | | | |
|  |  | HMN-Q1-M | T 2 11 102 7101-000 | |
| | | 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 | |
| | | 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 | |
| | PIN-Q2-F | | T 2 58 003 2154-000 |


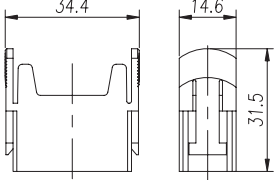
Quint 8-pos

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


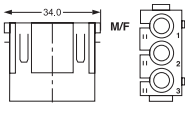
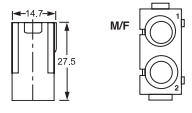
1

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


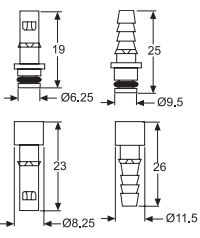
HMN-P2, P3 module for pneumatic contacts

PNEUMATIC CONTACTS, MODULAR UNITS, WITH 2 OR 3 SEATS

P2, P3

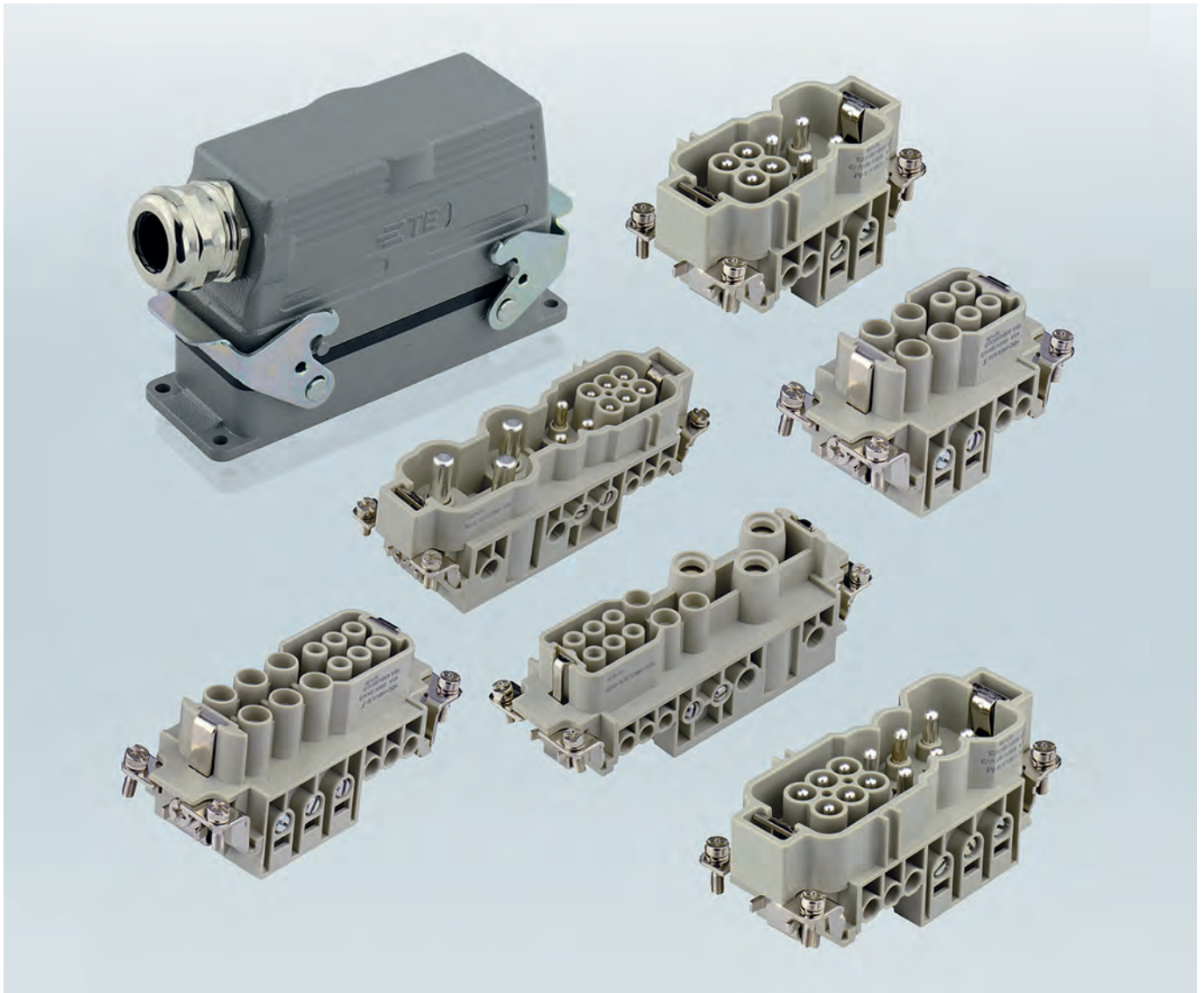
| Dimensions (mm) | | Type | Part Number | |
|---|---|---------|---------------------|---------------|
| | | | Male insert | Female insert |
| Contact arrangement view from termination side | | | | |
|  |  | HMN-PA3 | T 2 11 103 2301-000 | |
| |  | HMN-PA2 | T 2 11 102 2301-000 | |

Pneumatic contacts with or without closing valve

| | | | | |
|---|--|---|---|--|
|  |  | | | |
| <p>Male contacts without closing valve</p> <p>For tubes with internal \varnothing 1.6mm (For HMN P3 module)</p> <p>For tubes with internal \varnothing 3.0mm (For HMN P3 module)</p> <p>For tubes with internal \varnothing 4.0mm (For HMN P3 module)</p> <p>For tubes with internal \varnothing 6.0mm (For HMN P2 module)</p> | <p>Pneu-c-M1.6</p> <p>Pneu-c-M3.0</p> <p>Pneu-c-M4.0</p> <p>Pneu-c-M6.0</p> | <p>T 2 09 000 2101-001</p> <p>T 2 09 000 2101-002</p> <p>T 2 09 000 2101-003</p> <p>T 2 09 000 2101-004</p> | | |
| <p>Female contacts without closing valve</p> <p>For tubes with internal \varnothing 1.6mm (For HMN P3 module)</p> <p>For tubes with internal \varnothing 3.0mm (For HMN P3 module)</p> <p>For tubes with internal \varnothing 4.0mm (For HMN P3 module)</p> <p>For tubes with internal \varnothing 6.0mm (For HMN P2 module)</p> | <p>Pneu-c-F1.6</p> <p>Pneu-c-F3.0</p> <p>Pneu-c-F4.0</p> <p>Pneu-c-F6.0</p> | | <p>T 2 09 000 2201-001</p> <p>T 2 09 000 2201-002</p> <p>T 2 09 000 2201-003</p> <p>T 2 09 000 2201-004</p> | |
| <p>Female contacts with closing valve</p> <p>For tubes with internal \varnothing 1.6mm (For HMN P3 module)</p> <p>For tubes with internal \varnothing 3.0mm (For HMN P3 module)</p> <p>For tubes with internal \varnothing 4.0mm (For HMN P3 module)</p> <p>For tubes with internal \varnothing 6.0mm (For HMN P3 module)</p> | <p>Pneu-c-Fw1.6</p> <p>Pneu-c-Fw3.0</p> <p>Pneu-c-Fw4.0</p> <p>Pneu-c-Fw6.0</p> | | <p>T 2 09 001 2201-001</p> <p>T 2 09 001 2201-002</p> <p>T 2 09 001 2201-003</p> <p>T 2 09 001 2201-004</p> | |
| <p>Male contacts (use contacts without closing valve)</p> | | | | |

Notes

HK, HWK Series



1. 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



RoHS

HK8/24 technical characteristics

| | |
|--------------------------|-----------------|
| Specifications | DIN EN 60 664-1 |
| ..... | DIN EN 61 984 |
| Number of contacts | 8/24 + 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 | 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 | $\geq 10^{10}\Omega$ |
| Material | Polycarbonate |
| Temperature range | -40°C... +125°C |
| Flammability acc. to UL94 | V0 |
| Working voltage acc. to UL/CSA | 600V/300V |
| Mechanical working life-mating cycles | ≥ 500 |

CONTACTS

| | |
|--------------------------|-------------------------|
| Material | Copper alloy |
| Surface | Hard silver-plated |
| ..... | Hard gold-plated |
| Contact resistance | $\leq 3m\Omega$ |
| Terminal | Crimp terminal |
| - mm ² | |
| Power contact | 0.15-4.0mm ² |
| Signal contact..... | 0.15-2.5mm ² |
| - AWG | |
| Powder contact | 26-12 |
| Signal contact..... | 26-14 |

HOODS, HOUSINGS


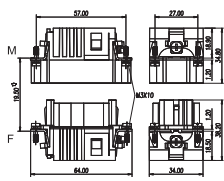
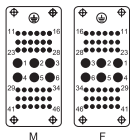
| | |
|--|------------------------------------|
| Material | Die cast aluminium |
| Surface | Powder-coated (RAL 7037) |
| Locking element..... | Stainless steel, steel-zinc plated |
| Temperature range | -40°C... +125°C |
| Degree of protection acc. to DIN40 050 | IP65 |

HK8/24 inserts


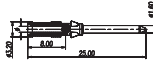

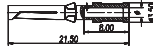
INSERTS FOR H10B HOOD/HOUSING

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


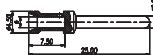

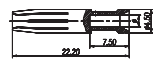
8/24+ ⊕

| Dimensions (mm) | Type | Part Number | |
|---|---|--------------|---------------------|
| | | Male insert | Female insert |
| Crimp terminal (Order crimp contacts separately) | | | |
|  |  | HK8/24-032-M | T 2 10 032 2101-000 |
| | | HK8/24-032-F | T 2 10 032 2201-000 |
| Contact arrangement view from termination side  | | | |

10A Contact


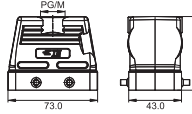
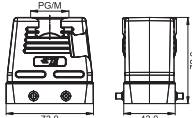

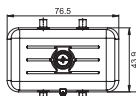
| Tech data Material: copper alloy Contact resistance: $\leq 3m\Omega$ Terminal: crimp connection CDM/Male  | 10A Male crimp contacts  | Wire gauge | | Strip-ping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|--|--|---|--|-------------------|-------------------------------|---------------------|-----------------------------|--------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

16A Contact

| Tech data Material: copper alloy Contact resistance: $\leq 1m\Omega$ Terminal: crimp connection CEM/Male  | 16A Male crimp contacts  | Wire gauge | | Strip-ping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|--|--|-----------------|-------|-------------------|-------------------------------|---------------------|-----------------------------|---------------------|
| | | mm ² | AWG | | mm | Type | Part Number | Type | Part Number |
| | | 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 |
| | | 0.5 | 20 | 7.5 | CEM-0.5 | T 2 03 000 1005-000 | DEM-0.5 | T 2 03 001 1005-000 |
| | | 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 crimp contacts  | 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 |
| | | 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 |
| | | 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 |


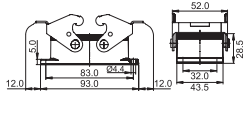

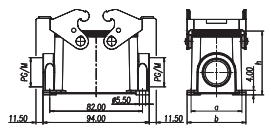

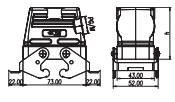

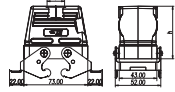

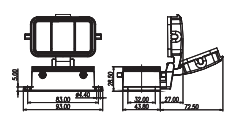

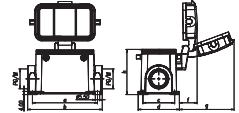
H10B with 2 levers on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | Metr. | PG | Type | Part Number | | | | | | |
|--|-------------------|--------------|--|---|------|------|------------------------------|--------------------------|---|---|
| Hood: Side entry | | | | | | | | | | |
|   | 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 | | | | | | |
|   | 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 | | | | | | | | | | |
|   | 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 | | | | | | |
|   | 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 hood | | | | | | | | | | |
|   <table border="1" data-bbox="533 1361 751 1458"> <thead> <tr> <th>Construction</th> <th>H</th> </tr> </thead> <tbody> <tr> <td>Low</td> <td>62.5</td> </tr> <tr> <td>High</td> <td>74.5</td> </tr> </tbody> </table> | Construction | H | Low | 62.5 | High | 74.5 | M20 M25 M25 M32 | PG16 PG21 PG29 | H10B-TBFS-PG16 H10B-TBFS-M20 H10B-TBFS-M25 H10B-TBFHS-PG21 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 |
| Construction | H | | | | | | | | | |
| Low | 62.5 | | | | | | | | | |
| High | 74.5 | | | | | | | | | |
| Protection covers for hoods | | | | | | | | | | |
|   | | | H10B-KDTP | T 1 01 010 1400-000 | | | | | | |
| Housing protection cover | | | | | | | | | | |
|   | | | H10B-KDBP | T 1 01 010 2100-000 | | | | | | |

H10B with 2 levers on the hoods/housings


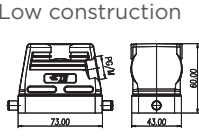

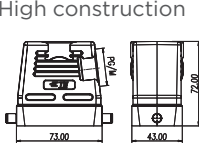

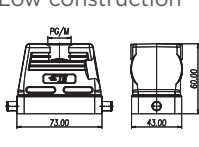

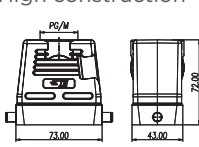

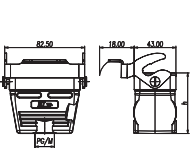

POWDER-COATED, RAL 7037

| Dimensions (mm) | Metr. | PG | Type | Part Number | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--------------|----|----------|---------------------|------|----|---|------------------------------|--|--|----|----|---|--|--|--|------|----|----|----|----|----|----|----|---|--|--|---|
| Bulkhead mounted | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|   | | | H10B-AGS | T 1 41 010 1000-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| Surface mounted: Side entry | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|   <table border="1" data-bbox="316 862 670 952"> <thead> <tr> <th>Construction</th> <th>A</th> <th>B</th> <th>H</th> </tr> </thead> <tbody> <tr> <td>Low</td> <td>40</td> <td>52</td> <td>56</td> </tr> <tr> <td>High</td> <td>45</td> <td>57</td> <td>74</td> </tr> </tbody> </table> | Construction | A | B | H | Low | 40 | 52 | 56 | High | 45 | 57 | 74 | Low construction 1 Side entry M20 M25 High construction 1 Side entry M25 M32 2 Side entry M25 M32 | PG16 PG21 PG16 PG21 PG21 PG29 PG21 PG29 | H10B-SGRS-PG16 H10B-SGRS-PG21 H10B-SGRS-M20 H10B-SGRS-M25 H10B-SGRS-2PG16 H10B-SGRS-2PG21 H10B-SGRS-2M20 H10B-SGRS-2M25 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 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 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 | | | | | | | | | | | | |
| Construction | A | B | H | | | | | | | | | | | | | | | | | | | | | | | | | |
| Low | 40 | 52 | 56 | | | | | | | | | | | | | | | | | | | | | | | | | |
| High | 45 | 57 | 74 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Side entry housing with two levers | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|   <table border="1" data-bbox="316 1176 518 1265"> <thead> <tr> <th>Construction</th> <th>H</th> </tr> </thead> <tbody> <tr> <td>Low</td> <td>60</td> </tr> <tr> <td>High</td> <td>72</td> </tr> </tbody> </table> | Construction | H | Low | 60 | High | 72 | Low construction M20 M25 High construction M25 M32 | PG16 PG21 PG21 PG29 | H10B-TSBS-PG16 H10B-TSBS-PG21 H10B-TSBS-M20 H10B-TSBS-M25 H10B-TSBHS-PG21 H10B-TSBHS-PG29 H10B-TSBHS-M25 H10B-TSBHS-M32 | T 1 25 010 3116-000 T 1 25 010 3121-000 T 1 25 010 3120-000 T 1 25 010 3125-000 T 1 27 010 3121-000 T 1 27 010 3129-000 T 1 27 010 3125-000 T 1 27 010 3132-000 | | | | | | | | | | | | | | | | | | |
| Construction | H | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Low | 60 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| High | 72 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Top entry housing with two levers | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|   <table border="1" data-bbox="316 1433 534 1523"> <thead> <tr> <th>Construction</th> <th>H</th> </tr> </thead> <tbody> <tr> <td>Low</td> <td>60</td> </tr> <tr> <td>High</td> <td>72</td> </tr> </tbody> </table> | Construction | H | Low | 60 | High | 72 | Low construction M20 M25 High construction 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 | | | | | | | | | | | | | | | | | | |
| Construction | H | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Low | 60 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| High | 72 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bulkhead mounted with 4 bolts | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|     <table border="1" data-bbox="316 1937 694 2016"> <thead> <tr> <th>Construction</th> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>F</th> <th>G</th> <th>H</th> </tr> </thead> <tbody> <tr> <td>Low</td> <td>82</td> <td>94</td> <td>40</td> <td>52</td> <td>22</td> <td>67</td> <td>54</td> </tr> <tr> <td>High</td> <td>82</td> <td>94</td> <td>45</td> <td>57</td> <td>20</td> <td>65</td> <td>74</td> </tr> </tbody> </table> | Construction | A | B | C | D | F | G | H | Low | 82 | 94 | 40 | 52 | 22 | 67 | 54 | High | 82 | 94 | 45 | 57 | 20 | 65 | 74 | Low construction 1 Side entry M20 M25 High construction 1 Side entry M25 M32 2 Side entry M25 M32 | PG16 PG21 PG16 PG21 PG21 PG29 PG21 PG29 | H10B-AD-BO 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 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 43 010 0000-000 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 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 |
| Construction | A | B | C | D | F | G | H | | | | | | | | | | | | | | | | | | | | | |
| Low | 82 | 94 | 40 | 52 | 22 | 67 | 54 | | | | | | | | | | | | | | | | | | | | | |
| High | 82 | 94 | 45 | 57 | 20 | 65 | 74 | | | | | | | | | | | | | | | | | | | | | |



H10B with 1 lever on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | | Metr. | PG | Type | 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 hood | | | | | | | | | | | |
|  |  <table border="1" data-bbox="534 1400 750 1500"> <thead> <tr> <th>Construction</th> <th>H</th> </tr> </thead> <tbody> <tr> <td>Low</td> <td>62.5</td> </tr> <tr> <td>High</td> <td>74.5</td> </tr> </tbody> </table> | Construction | H | Low | 62.5 | High | 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 |
| Construction | H | | | | | | | | | | |
| Low | 62.5 | | | | | | | | | | |
| High | 74.5 | | | | | | | | | | |
| Protection covers for hoods | | | | | | | | | | | |
|  | | | | H10B-KDTP-LB | T 1 01 010 1500-000 | | | | | | |

H10B with 1 lever on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | | Metr. | PG | Type | Part Number | | | | | | | | | | | | |
|-----------------------------|---|--------------|----|---------------------------|--|-----|----|----|----|------|----|----|----|---|--|--|--|
| Bulkhead mounted | | | | | | | | | | | | | | | | | |
| | | | | 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 | | | | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th>Construction</th> <th>A</th> <th>B</th> <th>H</th> </tr> </thead> <tbody> <tr> <td>Low</td> <td>40</td> <td>52</td> <td>54</td> </tr> <tr> <td>High</td> <td>45</td> <td>57</td> <td>74</td> </tr> </tbody> </table> | Construction | A | B | H | Low | 40 | 52 | 54 | High | 45 | 57 | 74 | 1 Side entry Low construction M20 M25 2 Side entry M20 M25 High construction 1 Side entry M25 M32 2 Side entry M25 M32 | PG16 PG21 PG16 PG21 PG21 PG29 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-PG29 H10B-SGRH-LB-M25 H10B-SGRH-LB-M32 H10B-SGRH-LB-2PG21 H10B-SGRH-LB-2PG29 H10B-SGRH-LB-2M25 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 3220-000 T 1 61 010 3225-000 T 1 65 010 3121-000 T 1 65 010 3129-000 T 1 65 010 3125-000 T 1 65 010 3132-000 T 1 65 010 3221-000 T 1 65 010 3229-000 T 1 65 010 3225-000 T 1 65 010 3232-000 |
| Construction | A | B | H | | | | | | | | | | | | | | |
| Low | 40 | 52 | 54 | | | | | | | | | | | | | | |
| High | 45 | 57 | 74 | | | | | | | | | | | | | | |
| | With protection cover <table border="1"> <thead> <tr> <th>Construction</th> <th>A</th> <th>B</th> <th>H</th> </tr> </thead> <tbody> <tr> <td>Low</td> <td>40</td> <td>52</td> <td>54</td> </tr> <tr> <td>High</td> <td>45</td> <td>57</td> <td>74</td> </tr> </tbody> </table> | Construction | A | B | H | Low | 40 | 52 | 54 | High | 45 | 57 | 74 | 1 Side entry Low construction M20 M25 2 Side entry M20 M25 High construction 1 Side entry M25 M32 2 Side entry M25 M32 | PG16 PG21 PG16 PG21 PG21 PG29 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-M32 H10B-SDRH-LB-2PG21 H10B-SDRH-LB-2PG29 H10B-SDRH-LB-2M25 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 3220-000 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 3132-000 T 1 66 010 3221-000 T 1 66 010 3229-000 T 1 66 010 3225-000 T 1 66 010 3232-000 |
| Construction | A | B | H | | | | | | | | | | | | | | |
| Low | 40 | 52 | 54 | | | | | | | | | | | | | | |
| High | 45 | 57 | 74 | | | | | | | | | | | | | | |



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


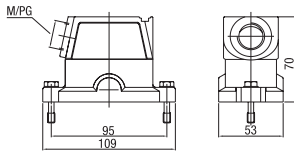

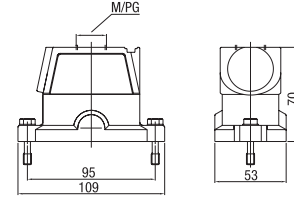

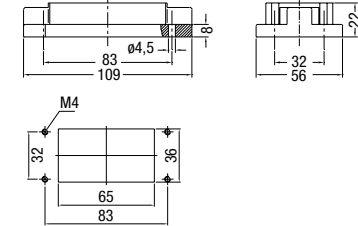
HIP: Pressure-tight, silver-grey

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 | Type | 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 |
| | | 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 |
| | | 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 | | | | |
|  |  | M25 | 16 21 | HIP HIP.10/24.STO.1.16.G HIP.10/24.STO.1.21.G HIP.10/24.STO.1.M25.G 1-1102644-5 1-1102646-5 0-1106436-1 |
| | | M25 M32 | 16 | 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 2-1102644-5 0-1106436-3 0-1106436-5 |
| | | M25 | 21 | EMV-K 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 | | | | |
|  |  | | | 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


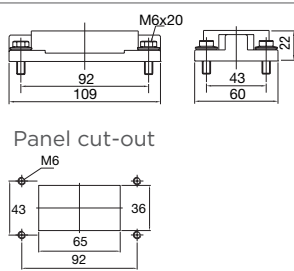

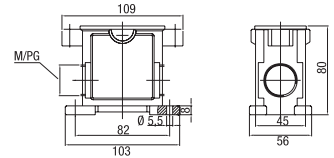

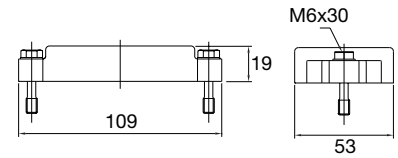
HIP: Pressure-tight, silver-grey

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 |
|---|-------|------------|--|--|
| Surface mounted housing: Bottom entry | | | | |
|   | | | 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 | | | | |
|   | 2xM32 | 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.M32.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 | | | | |
|   | | | 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 | $\geq 10^{10}\Omega$ |
| Material | Polycarbonate |
| Temperature range | -40°C... +125°C |
| Flammability acc. to UL94 | V0 |
| Working voltage acc. to UL/CSA | 600V |
| Mechanical working life-mating cycles | ≥ 500 |

CONTACTS

| | |
|--------------------------|------------------------|
| Material | Copper alloy |
| Surface | Hard silver-plated |
| ..... | Hard gold-plated |
| Contact resistance | |
| Power contact | $\leq 0.3m\Omega$ |
| Signal contact..... | $\leq 1m\Omega$ |
| Terminal | Screw terminal |
| - mm ² | |
| Power contact | 2.5-10mm ² |
| Signal contact..... | 0.5-2.5mm ² |
| - AWG | |
| Power contact | 14-8 |
| Signal contact..... | 20-14 |
| - Tightening/test torque | |
| Power contact | 1.2 Nm |
| Signal contact..... | 0.5 Nm |

HOODS, HOUSINGS


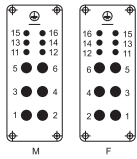
| | |
|---|------------------------------------|
| Material | Die cast aluminium |
| Surface | Powder-coated (RAL 7037) |
| Locking element..... | Stainless steel, steel-zinc plated |
| Temperature range | -40°C... +125°C |
| Degree of protection acc. to DIN40 050..... | IP65 |

HWK 6/6 inserts

690V MAX. 35A/16A

INSERTS FOR H16B HOOD/HOUSING

6/6 Ⓢ

| Dimensions (mm) | | Type | Part Number | |
|---|---|--------------|---------------------|---------------------|
| | | | Male insert | Female insert |
| Screw terminal | Contact arrangement view from termination side | | | |
|  |  | HWK6/6-012-M | T 2 10 606 2101-000 | |
| | | 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 |

INSERTS

| | |
|---|----------------------|
| Rated current | |
| Power contact | 80A max |
| Signal contact | 16A max |
| (See current carrying capacity) | |
| Working voltage | |
| Power contact | 690V |
| Signal contact | 400V |
| Test voltage urms | |
| Power contact | 8KV |
| Signal contact | 6KV |
| Pollution degree | 3 |
| Insulation resistance | $\geq 10^{10}\Omega$ |
| Material | Polycarbonate |
| Temperature range | -40°C... +125°C |
| Flammability acc. to UL94 | V0 |
| Working voltage acc. to UL/CSA | 600V/300V |
| Mechanical working life-mating cycles | ≥ 500 |

CONTACTS

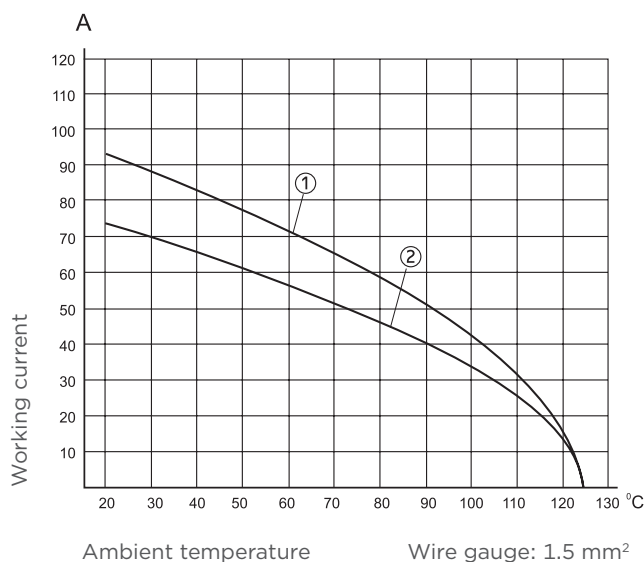
| | |
|--------------------------|------------------------|
| Material | Copper alloy |
| Surface | Hard silver-plated |
| ..... | Hard gold-plated |
| Contact resistance | |
| Power contact | $\leq 0.3m\Omega$ |
| Signal contact | $\leq 1m\Omega$ |
| Terminal | Screw terminal |
| - mm ² | |
| Power contact | 1.5-16mm ² |
| Signal contact | 0.5-2.5mm ² |
| - AWG | |
| Power contact | 16-6 |
| Signal contact | 20-14 |
| - 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 050 | IP65 |

CURRENT CARRYING CAPACITY

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




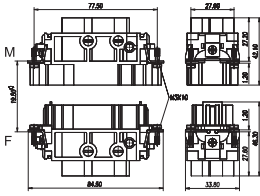
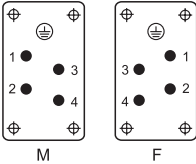
- 1 Wire gauge: 16mm²
- 2 Wire gauge: 10mm²


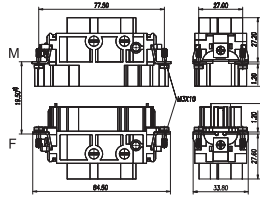
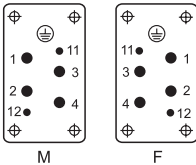
HK4/0, HK4/2 inserts

INSERTS FOR H16B HOOD/HOUSING

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

4/0+ ⊕ 4/2+ ⊕

| Dimensions (mm) | | Type | Part Number | |
|--|---|-------------|---------------------|---------------------|
| | | | Male insert | Female insert |
| Screw terminal | Size chart | | | |
|  |  | HK4/0-004-M | T 2 10 004 2101-000 | |
| | | HK4/0-004-F | | T 2 10 004 2201-000 |
| Contact arrangement view from termination side | | | | |
|  | | | | |

| Dimensions (mm) | | Type | Part Number | |
|---|---|-------------|---------------------|---------------------|
| | | | Male insert | Female insert |
| Screw terminal | Size chart | | | |
|  |  | HK4/2-006-M | T 2 10 006 2101-000 | |
| | | 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 |

INSERTS

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

CONTACTS

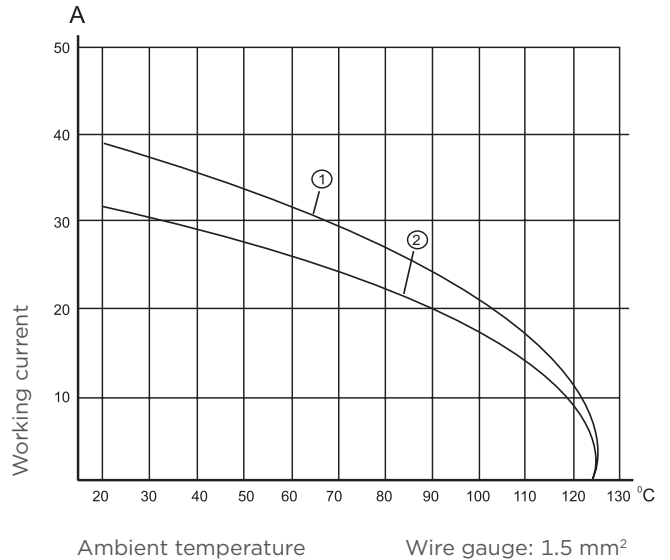
| | |
|---------------------|--------------------------|
| Material | Copper alloy |
| Surface | Hard silver-plated |
| ..... | Hard gold-plated |
| Contact resistance | |
| Power contact | $\leq 0.3\text{m}\Omega$ |
| Signal contact..... | $\leq 3\text{m}\Omega$ |
| Terminal | Crimp terminal |
| - mm ² | |
| Power contact | 1-6mm ² |
| 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 DIN40 050 | IP65 |

CURRENT CARRYING CAPACITY

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




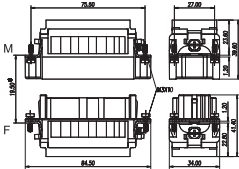
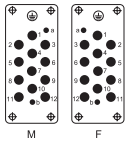
- 1 Wire gauge: 6.0mm²
- 2 Wire gauge: 4.0mm²

HK12/2 inserts

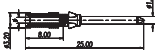

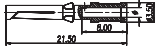
INSERT FOR H16B HOOD/HOUSING

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




12/2+⊕

| Dimensions (mm) | | Type | Part Number | |
|--|---|--------------|---------------------|---------------------|
| | | | Male insert | Female insert |
| Crimp terminal (Order crimp contacts separately) | Size chart | | | |
|  |  | HK12/2-014-M | T 2 12 014 2101-000 | |
| | | HK12/2-014-F | | T 2 12 014 2201-000 |
| Contact arrangement view from termination side | | | | |
|  | | | | |

10A Contact

| Tech data Material: copper alloy Contact resistance: $\leq 3\text{m}\Omega$ Terminal: crimp connection CDM/Male | 10A Male crimp contacts  | Wire gauge | | Strip- ping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|--|--|---|-------------------------------------|---|--|--|--|--|
| | | mm ² | AWG | | Type | Part Number | Type | Part Number |
| | |  | | 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 |

40A Contact

| Tech data Material: copper alloy Contact resistance: $\leq 0.3\text{m}\Omega$ Terminal: crimp connection CMM/Male | 40A Male crimp contacts  | Wire gauge | | Stripping length | Crimp contacts, silver-plated | |
|--|--|---|---------------------------|---------------------------------|--|---|
| | | mm ² | AWG | | Type | Part Number |
| | |  | | 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 |

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 | $\geq 10^{10}\Omega$ |
| Material | Polycarbonate |
| Temperature range | -40°C... +125°C |
| Flammability acc. to UL94 | V0 |
| Working voltage acc. to UL/CSA | 600V/300V |
| Mechanical working life-mating cycles | ≥ 500 |

CONTACTS

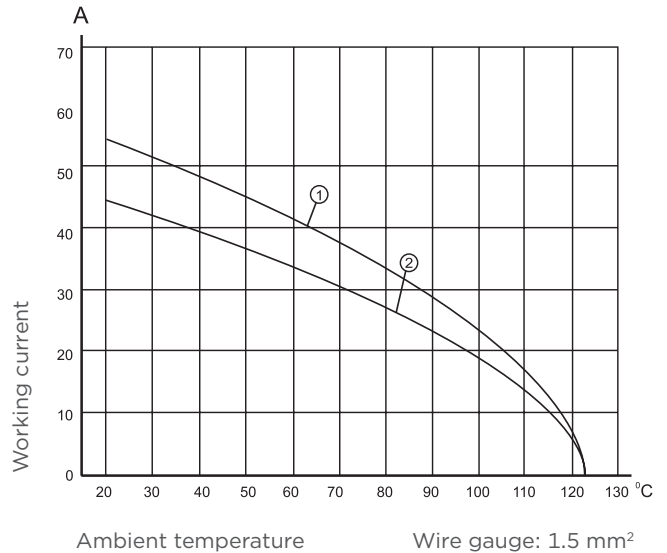
| | |
|---------------------|-------------------------|
| Material | Copper alloy |
| Surface | Hard silver-plated |
| ..... | Hard gold-plated |
| Contact resistance | |
| Power contact | $\leq 0.3m\Omega$ |
| Signal contact..... | $\leq 3m\Omega$ |
| Terminal | Crimp terminal |
| - mm ² | |
| Power contact | 1-6mm ² |
| 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 DIN40 050 | IP65 |

CURRENT CARRYING CAPACITY

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




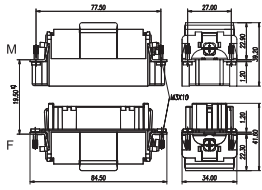
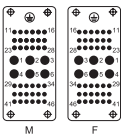
- 1 Wire gauge: 6.0mm²
- 2 Wire gauge: 4.0mm²

HK6/36 inserts


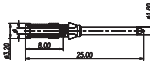

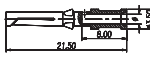
INSERT FOR H16B HOOD/HOUSING

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





6/36+⊕

| Dimensions (mm) | | Type | Part Number | |
|--|---|--------------|---------------------|---------------------|
| | | | Male insert | Female insert |
| Crimp terminal (Order crimp contacts separately) | Size chart | | | |
|  |  | HK6/36-042-M | T 2 12 042 2101-000 | |
| | | HK6/36-042-F | | T 2 12 042 2201-000 |
| Contact arrangement view from termination side | | | | |
|  | | | | |

10A Contact


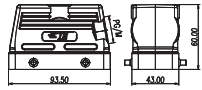

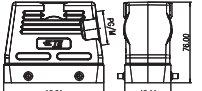



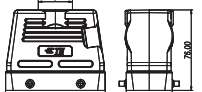

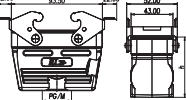

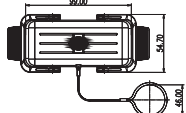

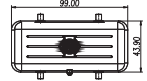
| Tech data Material: copper alloy Contact resistance: $\leq 3m\Omega$ Terminal: crimp connection CDM/Male  | 10A Male crimp contacts  | Wire gauge | | Strip- ping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|--|--|-----------------|-------|--------------------------|-------------------------------|---------------------|-----------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

40A Contact

| Tech data Material: copper alloy Contact resistance: $\leq 0.3m\Omega$ Terminal: crimp connection CMM/Male  | 40A Male crimp contacts  | Wire gauge | | Stripping length | Crimp contacts, silver-plated | |
|--|--|-----------------|-----|---------------------|-------------------------------|---------------------|
| | | mm ² | AWG | | mm | Type | Part Number |
| | | 1.5 | 16 | 8.0 | CMM-1.5 | T 2 04 000 1015-000 |
| | | 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 crimp contacts  | 1.5 | 16 | 8.0 | CMF-1.5 | T 2 04 000 2015-000 |
| | | 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 |
| | | 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 |


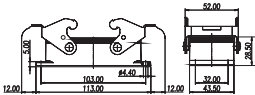

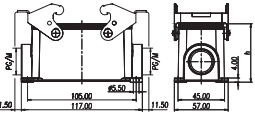

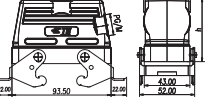

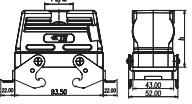

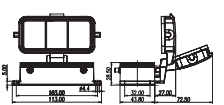
H16B with 2 levers on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | | Metr. | PG | Type | 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 | | | | | | | | | | | |
|  | 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 hood | | | | | | | | | | | |
|  |  <table border="1" data-bbox="533 1348 737 1438"> <thead> <tr> <th>Construction</th> <th>H</th> </tr> </thead> <tbody> <tr> <td>Low</td> <td>62.5</td> </tr> <tr> <td>High</td> <td>74.5</td> </tr> </tbody> </table> | Construction | H | Low | 62.5 | High | 74.5 | M25 M32 | PG21 | H16B-TBFS-PG21 H16B-TBFS-M25 H16B-TBFS-M32 | T 1 71 016 1121-000 T 1 71 016 1125-000 T 1 71 016 1132-000 |
| Construction | H | | | | | | | | | | |
| Low | 62.5 | | | | | | | | | | |
| High | 74.5 | | | | | | | | | | |
| | | M25 M32 M40 | PG21 PG29 | H16B-TBFHS-PG21 H16B-TBFHS-PG29 H16B-TBFHS-M25 H16B-TBFHS-M32 H16B-TBFHS-M40 | 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 for hoods | | | | | | | | | | | |
|  |  | | | H16B-KDTP | T 1 01 016 1400-000 | | | | | | |
| Housing protection cover | | | | | | | | | | | |
|  |  | | | H16B-KDBP | T 1 01 016 2100-000 | | | | | | |


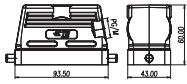

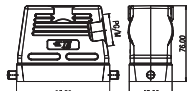

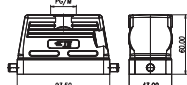

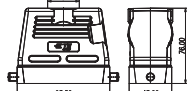

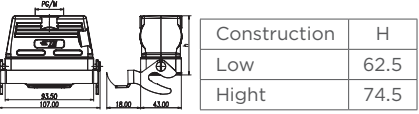

H16B with 2 levers on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | Metr. | PG | Type | Part Number | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|-------------------|----------|---|----|------|----|---|---|-----|-----|-----|----|----|----|----|----|------|-----|-----|----|----|----|----|----|--|--|--|
| Bulkhead mounted | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  | | H16B-AGS | T 1 41 016 1000-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| Surface mounted: Side entry | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  | Low construction | M25 PG21 | H16B-SGRS-PG21 T 1 44 016 1121-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | M25 PG21 | H16B-SGRS-M25 T 1 44 016 1125-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | M25 PG21 | H16B-SGRS-2PG21 T 1 44 016 1221-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | M25 PG29 | H16B-SGRS-2M25 T 1 44 016 1225-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | High construction | M25 PG21 | H16B-SGRHS-PG21 T 1 47 016 1121-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | M32 PG29 | H16B-SGRHS-M25 T 1 47 016 1129-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | M25 PG21 | H16B-SGRHS-M32 T 1 47 016 1132-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | M32 PG29 | H16B-SGRHS-2PG21 T 1 47 016 1221-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr> <th>Construction</th> <th>H</th> </tr> <tr> <td>Low</td> <td>56</td> </tr> <tr> <td>High</td> <td>81</td> </tr> </table> | | Construction | H | Low | 56 | High | 81 | | | | | | | | | | | | | | | | | | | | | |
| Construction | H | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Low | 56 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| High | 81 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Side entry housing with two levers | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  | Low construction | M20 PG16 | H16B-TSBS-PG16 T 1 25 016 3116-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | M25 PG21 | H16B-TSBS-PG21 T 1 25 016 3121-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | M25 PG21 | H16B-TSBS-M20 T 1 25 016 3120-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | High construction | M25 PG29 | H16B-TSBS-M25 T 1 25 016 3125-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | M25 PG21 | H16B-TSBHS-PG21 T 1 27 016 3121-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | M32 PG29 | H16B-TSBHS-PG29 T 1 27 016 3129-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr> <th>Construction</th> <th>H</th> </tr> <tr> <td>Low</td> <td>60</td> </tr> <tr> <td>High</td> <td>76</td> </tr> </table> | | Construction | H | Low | 60 | High | 76 | | | | | | | | | | | | | | | | | | | | | |
| Construction | H | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Low | 60 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| High | 76 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Top entry housing with two levers | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  | Low construction | M20 PG16 | H16B-TGBS-PG16 T 1 26 016 3116-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | M25 PG21 | H16B-TGBS-PG21 T 1 26 016 3121-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | M25 PG21 | H16B-TGBS-M20 T 1 26 016 3120-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | High construction | M25 PG29 | H16B-TGBS-M25 T 1 26 016 3125-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | M25 PG21 | H16B-TGBHS-PG21 T 1 28 016 3121-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | M32 PG29 | H16B-TGBHS-PG29 T 1 28 016 3129-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr> <th>Construction</th> <th>H</th> </tr> <tr> <td>Low</td> <td>60</td> </tr> <tr> <td>High</td> <td>76</td> </tr> </table> | | Construction | H | Low | 60 | High | 76 | | | | | | | | | | | | | | | | | | | | | |
| Construction | H | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Low | 60 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| High | 76 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bulkhead mounted with 4 bolts | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  | Low construction | M25 PG21 | H16B-AD-BO T 1 43 016 0000-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | M25 PG21 | H16B-SDR-BO-PG21 T 1 46 016 0121-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | High construction | M25 PG21 | H16B-SDR-BO-M25 T 1 46 016 0125-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | M25 PG29 | H16B-SDR-BO-2PG21 T 1 46 016 0221-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | M25 PG21 | H16B-SDR-BO-2M25 T 1 46 016 0225-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | M25 PG29 | H16B-SDRH-BO-PG21 T 1 49 016 0121-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | M32 PG29 | H16B-SDRH-BO-PG29 T 1 49 016 0129-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | M25 PG21 | H16B-SDRH-BO-M25 T 1 49 016 0125-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | M32 PG21 | H16B-SDRH-BO-M32 T 1 49 016 0132-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | M25 PG29 | H16B-SDRH-BO-2PG21 T 1 49 016 0221-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr> <th>Construction</th> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>F</th> <th>G</th> <th>H</th> </tr> <tr> <td>Low</td> <td>105</td> <td>117</td> <td>45</td> <td>57</td> <td>20</td> <td>65</td> <td>56</td> </tr> <tr> <td>High</td> <td>105</td> <td>117</td> <td>45</td> <td>57</td> <td>20</td> <td>65</td> <td>81</td> </tr> </table> | | Construction | A | B | C | D | F | G | H | Low | 105 | 117 | 45 | 57 | 20 | 65 | 56 | High | 105 | 117 | 45 | 57 | 20 | 65 | 81 | | | |
| Construction | A | B | C | D | F | G | H | | | | | | | | | | | | | | | | | | | | | |
| Low | 105 | 117 | 45 | 57 | 20 | 65 | 56 | | | | | | | | | | | | | | | | | | | | | |
| High | 105 | 117 | 45 | 57 | 20 | 65 | 81 | | | | | | | | | | | | | | | | | | | | | |


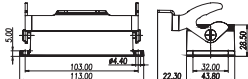

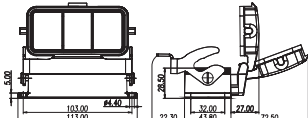

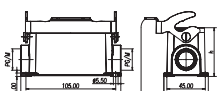

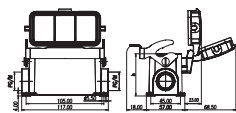
H16B with 1 lever on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | Metr. | PG | Type | Part Number | | | | | | | |
|---|---|-------------------|--------------|---|---|-------|------|-------------------------------------|----------------------------------|--|---|
| Hood: Side entry | | | | | | | | | | | |
|  |  | 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 | | | | | | |
|  |  | 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 | | | | | | | | | | | |
|  |  | 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 | | | | | | |
|  |  | 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 hood | | | | | | | | | | | |
|  |  <table border="1" data-bbox="528 1335 751 1429"> <thead> <tr> <th>Construction</th> <th>H</th> </tr> </thead> <tbody> <tr> <td>Low</td> <td>62.5</td> </tr> <tr> <td>Hight</td> <td>74.5</td> </tr> </tbody> </table> | 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 |
| Construction | H | | | | | | | | | | |
| Low | 62.5 | | | | | | | | | | |
| Hight | 74.5 | | | | | | | | | | |
| Protection covers for hoods | | | | | | | | | | | |
|  | | | | H16B-KDTP-LB | T 1 01 016 1500-000 | | | | | | |

H16B with 1 lever on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | Metr. | PG | Type | Part Number | | | | | | | |
|---|--|--------------|------------|---------------------|----|------|----|---|--|--|--|
| Bulkhead mounted | | | | | | | | | | | |
|  |  | | H16B-AG-LB | T 1 50 016 3000-000 | | | | | | | |
|  | With protection cover  | | H16B-AD-LB | T 1 51 016 3000-000 | | | | | | | |
| Surface mounted: Side entry | | | | | | | | | | | |
|  |  <table border="1" data-bbox="325 1144 544 1240"> <tr> <td>Construction</td> <td>H</td> </tr> <tr> <td>Low</td> <td>56</td> </tr> <tr> <td>High</td> <td>81</td> </tr> </table> | Construction | H | Low | 56 | High | 81 | 1 Side entry Low construction M20 M25 2 Side entry M20 M25 1 Side entry High construction M25 M32 2 Side entry 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-PG21 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 | 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 3220-000 T 1 61 016 3225-000 T 1 65 016 3121-000 T 1 65 016 3129-000 T 1 65 016 3125-000 T 1 65 016 3132-000 T 1 65 016 3221-000 T 1 65 016 3229-000 T 1 65 016 3225-000 T 1 65 016 3232-000 |
| Construction | H | | | | | | | | | | |
| Low | 56 | | | | | | | | | | |
| High | 81 | | | | | | | | | | |
|  | With protection cover  <table border="1" data-bbox="325 1559 544 1655"> <tr> <td>Construction</td> <td>H</td> </tr> <tr> <td>Low</td> <td>56</td> </tr> <tr> <td>High</td> <td>81</td> </tr> </table> | Construction | H | Low | 56 | High | 81 | 1 Side entry Low construction M20 M25 2 Side entry M20 M25 1 Side entry High construction M25 M32 2 Side entry 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-M25 H16B-SDRH-LB-M32 H16B-SDRH-LB-2PG21 H16B-SDRH-LB-2PG29 H16B-SDRH-LB-2M25 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 3220-000 T 1 62 016 3225-000 T 1 66 016 3121-000 T 1 66 016 3129-000 T 1 66 016 3125-000 T 1 66 016 3132-000 T 1 66 016 3221-000 T 1 66 016 3229-000 T 1 66 016 3225-000 T 1 66 016 3232-000 |
| Construction | H | | | | | | | | | | |
| Low | 56 | | | | | | | | | | |
| High | 81 | | | | | | | | | | |

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 | | | |
|---|-------|---|---|-------------|----------|---|-----------------------------------|
| Hood: Side entry | | | | | | | |
|  | 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 | | | |
| | | | | M32 | 29 | HIP-K HIP-K.16/40.STS.1.29.G HIP-K.16/40.STS.1.M32.G | 1-1102651-5 |
| | | | | | | | 0-1106454-2 |
| 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 | | | |
| Hood: Top entry | | | | | | | |
|  | 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 | | | |
| | | | | 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 | 1-1102655-5 |
| | | | | | | | 0-1106454-1 |
| M32 | 29 | EMV-K EMV-K.16/40.STO.1.29.G EMV-K.16/40.STO.1.M32.G | 0-1106444-1 | | | | |
| | | | | 4-1102725-5 | | | |
| | | | | 0-1106446-3 | | | |
| Surface mounted housing: Bottom entry | | | | | | | |
|  | | | HIP HIP.16/40.AG | 1-1102656-5 | | | |
| | | | | | | HIP-K HIP-K.16/40.AG | 2-1102656-5 |
| | | | | | | | EMV-K EMV-K.16/40.AG | 4-1102728-5 |
|  | | | HIP HIP.16/40.AG.M6 | 1-1102618-5 | | | |
| | | | | | | HIP-K HIP-K.16/40.AG.M6 | 2-1102618-5 |
| | | | | | | | 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 | Type | Part Number |
|---|-------|------------|---------------------------------------|-------------|
| Surface mounted housing: Side entry | | | | |
|  | 2xM32 | 21 2x21 | HIP HIP.16/40.SG.1.21.G | 1-1102616-5 |
| | | | HIP.16/40.SG.2.21.G | 1-1102617-5 |
| | | | HIP.16/40.SG.2.M32.G | 0-1106453-1 |
| | 2xM32 | 21 2x21 | HIP-K HIP-K.16/40.SG.1.21.G | 5-1102616-5 |
| | | | HIP-K.16/40.SG.2.21.G | 2-1102617-5 |
| | | | HIP-K.16/40.SG.2.M32.G | 0-1106443-1 |
| | 2xM32 | 21 2x21 | EMV-K EMV-K.16/40.SG.1.21.Z | 4-1102726-5 |
| | | | EMV-K.16/40.SG.2.21.Z | 4-1102727-5 |
| | | | EMV-K.16/40.SG.2.M32.G | 0-1106445-2 |
| Protective covers for housings | | | | |
|  | | | HIP HIP/EMV.16/40.SKB | 3-1106203-5 |
| | | | HIP-K 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

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 $\geq 10^{10}\Omega$
 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

CONTACTS

Material Copper alloy
 Surface Hard silver-plated
 Hard gold-plated
 Contact resistance
 Power contact $\leq 0.1m\Omega$
 Signal contact $\leq 5m\Omega$
 Terminal Crimp terminal
 - mm²
 Power contact 1.5-16mm²
 Signal contact 0.5-2.5mm²
 - AWG
 Power contact 16-6
 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 |

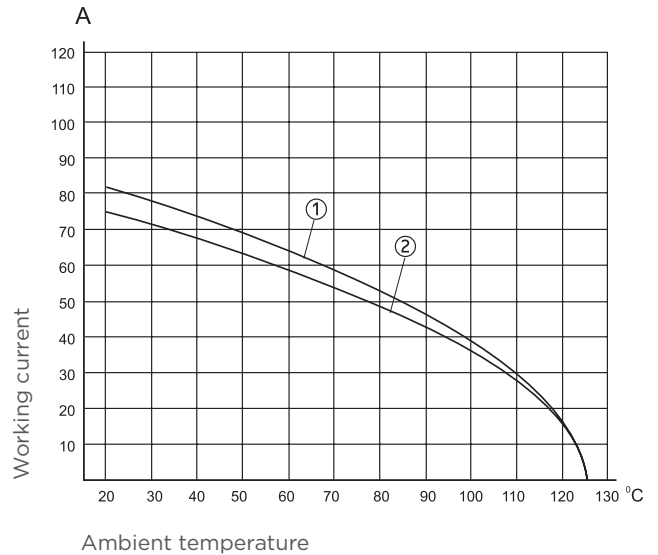
- Signal contact 0.5 Nm

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

CURRENT CARRYING CAPACITY

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




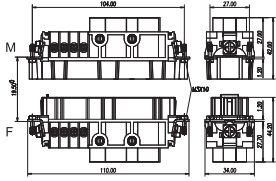
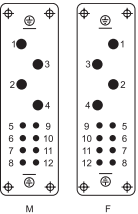
- 1 Wire gauge: 16mm²
- 2 Wire gauge: 10mm²

HK4/8 inserts

INSERTS FOR H24B HOOD/HOUSING

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

4/8+ Ⓢ

| Dimensions (mm) | | Type | Part Number | |
|--|---|-------------|---------------------|---------------------|
| | | | Male insert | Female insert |
| Screw terminal | Size chart | | | |
|  |  | HK4/8-012-M | T 2 10 012 2101-000 | |
| | | HK4/8-012-F | | T 2 10 012 2201-000 |
| 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

INSERTS

Rated current
 Power 1 contact..... 100A max
 Power 2 contact.....40A max
 Signal contact.....16A max
 (See current carrying capacity)
 Working voltage
 Power 1 contact
 Conductor - ground 400V
 Conductor - conductor..... 690V
 Power 2 contact
 Conductor - ground 400V
 Conductor - conductor..... 690V
 Signal contact
 Conductor - ground 250V
 Conductor - conductor 400V
 Test voltage urms
 Power 1 contact..... 6KV
 Power 2 contact..... 6KV
 Signal contact 3KV
 Pollution degree 3
 Insulation resistance $\geq 10^{10}\Omega$
 Material Polycarbonate
 Temperature range -40°C... +125°C
 Flammability acc. to UL94..... V0

CONTACTS

Material Copper alloy
 Surface Hard silver-plated
 Hard gold-plated
 Contact resistance
 Power contact $\leq 0.1\text{m}\Omega$
 Signal contact..... $\leq 5\text{m}\Omega$
 Terminal Screw terminal
 - mm²
 Power 1 contact..... 16-35mm²
 Power 2 contact..... 2.5-6mm²
 Signal contact..... 0.5-2.5mm²
 - 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

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.

HOODS, HOUSINGS


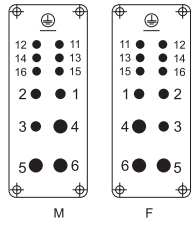
Material Die cast aluminium
 Surface Powder-coated (RAL 7037)
 Locking element..... Stainless steel, steel-zinc plated
 Temperature range -40°C... +125°C
 Degree of protection acc. to DIN40 050 IP65

HWK3/3/6 inserts

INSERTS FOR H24B HOOD/HOUSING

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

3/3/6+Ⓢ

| Dimensions (mm) | | Type | Part Number | |
|---|---|---------------|---------------------|---------------------|
| | | | Male insert | Female insert |
| Screw terminal | Contact arrangement view from termination side | | | |
|  |  | HK3/3/6-012-M | T 2 09 336 2101-000 | |
| | | HK3/3/6-012-F | | T 2 09 336 2201-000 |

CONTACTS

MaterialCopper alloy

SurfaceHard silver-plated

.....Hard gold-plated

Contact resistance

Power contact ≤0.1mΩ

Signal contact..... ≤5mΩ

Terminal Screw terminal

100A contact pin

- mm²

Power 1 contact.....16-35 mm²

Power 2 contact.....2.5-6 mm²

Signal contact..... 0.5-2.5 mm²

- AWG

Power 1 contact..... 6-2

Power 2 contact..... 14-10

Signal contact..... 20-14

- Tightening/test torque


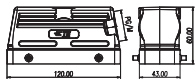

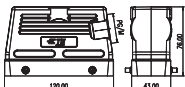

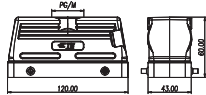

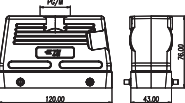

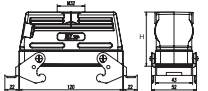

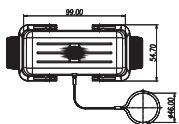

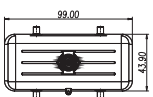
- Power contact

| | | | | | | |
|-----------------|-----|-----|---|---|----|----|
| mm ² | 1.5 | 2.5 | 4 | 6 | 10 | 16 |
| Nm | 1.2 | 2 | 3 | 3 | 3 | 3 |

- Signal contact..... 0.5Nm


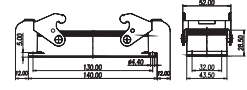

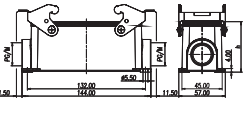

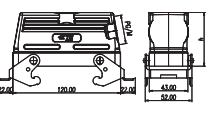

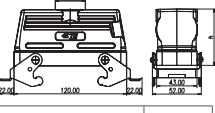

H24B with 2 levers on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | | Metr. | PG | Type | Part Number | | | | | | |
|---|--|-------------------|--------------|--|---|------|------|-------------------------------------|--------------------------|--|--|
| Hood: Side entry | | | | | | | | | | | |
|  | <p>Low construction</p>  | 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 | | | | | | |
|  | <p>High construction</p>  | 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 | | | | | | | | | | | |
|  | <p>Low construction</p>  | 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 | | | | | | |
|  | <p>High construction</p>  | 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 hood | | | | | | | | | | | |
|  |  <table border="1" data-bbox="533 1361 751 1451"> <thead> <tr> <th>Construction</th> <th>H</th> </tr> </thead> <tbody> <tr> <td>Low</td> <td>62.5</td> </tr> <tr> <td>High</td> <td>78.5</td> </tr> </tbody> </table> | Construction | H | Low | 62.5 | High | 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 |
| Construction | H | | | | | | | | | | |
| Low | 62.5 | | | | | | | | | | |
| High | 78.5 | | | | | | | | | | |
| Protection covers for hoods | | | | | | | | | | | |
|  |  | | | H24B-KDTP | T 1 01 024 1400-000 | | | | | | |
| Housing protection cover | | | | | | | | | | | |
|  |  | | | H24B-KDBP | T 1 01 024 2100-000 | | | | | | |


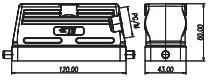

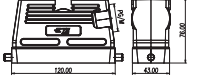

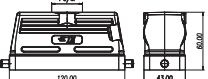





H24B with 2 levers on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | | Metr. | PG | Type | Part Number | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|----------------------------------|----------------------------------|-------------------|---------------------|---------------------|--------------------|-----------------------------------|---------------------|------|----------------|---------------------|-----|----|----|----|----|----|------|-----|-----|----|----|----|----|----|-----------------------------------|-----|------|-------------------|
| Bulkhead mounted | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  | | | H24B-AGS | T 1 41 024 1000-000 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Surface mounted: Side entry | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  | 1 Side entry Low construction | M25 | PG21 | H24B-SGRS-PG21 | T 1 44 024 1121-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | M25 | PG21 | H24B-SGRS-M25 | T 1 44 024 1125-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | M25 | PG21 | H24B-SGRS-2PG21 | T 1 44 024 1221-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | M32 | PG29 | H24B-SGRS-2M25 | T 1 44 024 1225-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | M25 | PG21 | H24B-SGRHS-PG21 | T 1 47 024 1121-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | M32 | PG29 | H24B-SGRHS-PG29 | T 1 47 024 1129-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr><td>Construction</td><td>H</td></tr> <tr><td>Low</td><td>56</td></tr> <tr><td>High</td><td>81</td></tr> </table> | | Construction | H | Low | 56 | High | 81 | 1 Side entry High construction | M25 | PG21 | H24B-SGRHS-M25 | T 1 47 024 1125-000 | | | | | | | | | | | | | | | | | | |
| Construction | H | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Low | 56 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| High | 81 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | M32 | PG29 | H24B-SGRHS-M32 | T 1 47 024 1132-000 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | M25 | PG21 | H24B-SGRHS-2PG21 | T 1 47 024 1221-000 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | M32 | PG29 | H24B-SGRHS-2PG29 | T 1 47 024 1229-000 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | M25 | PG21 | H24B-SGRHS-2M25 | T 1 47 024 1225-000 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | M32 | PG29 | H24B-SGRHS-2M32 | T 1 47 024 1232-000 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Side entry housing with two levers | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  | Low construction | M20 | PG16 | H24B-TSBS-PG16 | T 1 25 024 3116-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | M25 | PG21 | H24B-TSBS-PG21 | T 1 25 024 3121-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | M25 | PG21 | H24B-TSBS-M20 | T 1 25 024 3120-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | M25 | PG21 | H24B-TSBS-M25 | T 1 25 024 3125-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | M25 | PG29 | H24B-TSBHS-PG21 | T 1 27 024 3121-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | M32 | PG29 | H24B-TSBHS-PG29 | T 1 27 024 3129-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr><td>Construction</td><td>H</td></tr> <tr><td>Low</td><td>60</td></tr> <tr><td>High</td><td>76</td></tr> </table> | | Construction | H | Low | 60 | High | 76 | High construction | M25 | PG21 | H24B-TSBHS-M25 | T 1 27 024 3125-000 | | | | | | | | | | | | | | | | | | |
| Construction | H | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Low | 60 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| High | 76 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | M32 | PG29 | H24B-TSBHS-M32 | T 1 27 024 3132-000 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Top entry housing with two levers | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  | Low construction | M20 | PG16 | H24B-TGBS-PG16 | T 1 26 024 3116-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | M25 | PG21 | H24B-TGBS-PG21 | T 1 26 024 3121-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | M25 | PG21 | H24B-TGBS-M20 | T 1 26 024 3120-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | M25 | PG21 | H24B-TGBS-M25 | T 1 26 024 3125-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | M25 | PG29 | H24B-TGBHS-PG21 | T 1 28 024 3121-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | M32 | PG29 | H24B-TGBHS-PG29 | T 1 28 024 3129-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr><td>Construction</td><td>H</td></tr> <tr><td>Low</td><td>60</td></tr> <tr><td>High</td><td>76</td></tr> </table> | | Construction | H | Low | 60 | High | 76 | High construction | M25 | PG21 | H24B-TGBHS-M25 | T 1 28 024 3125-000 | | | | | | | | | | | | | | | | | | |
| Construction | H | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Low | 60 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| High | 76 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | M32 | PG29 | H24B-TGBHS-M32 | T 1 28 024 3132-000 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bulkhead mounted with 4 bolts | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | With protection cover | 1 Side entry Low construction | 2 Side entry Low construction | PG21 | H24B-AD-BO | T 1 43 024 0000-000 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | M25 | PG21 | H24B-SDR-BO-PG21 | T 1 46 024 0121-000 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | PG21 | H24B-SDR-BO-M25 | T 1 46 024 0125-000 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | PG21 | H24B-SDR-BO-2PG21 | T 1 46 024 0221-000 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | M25 | PG21 | H24B-SDR-BO-2M25 | T 1 46 024 0225-000 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | M25 | PG21 | H24B-SDRH-BO-PG21 | T 1 49 024 0121-000 | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | PG29 | H24B-SDRH-BO-PG29 | T 1 49 024 0129-000 | | | | | | | | | | | | | | | | | | | | | |
| | | | | | M32 | | PG21 | H24B-SDRH-BO-M25 | T 1 49 024 0125-000 | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | PG21 | H24B-SDRH-BO-M32 | T 1 49 024 0132-000 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | PG29 | H24B-SDRH-BO-2PG21 | T 1 49 024 0221-000 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | M25 | PG29 | H24B-SDRH-BO-2PG29 | T 1 49 024 0229-000 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | M32 | PG21 | H24B-SDRH-BO-2M25 | T 1 49 024 0225-000 | | | | | | | | | | | | | | | | | | | | | |
| PG29 | H24B-SDRH-BO-2M32 | T 1 49 024 0232-000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr><td>Construction</td><td>A</td><td>B</td><td>C</td><td>D</td><td>F</td><td>G</td><td>H</td></tr> <tr><td>Low</td><td>132</td><td>144</td><td>45</td><td>57</td><td>20</td><td>65</td><td>56</td></tr> <tr><td>High</td><td>132</td><td>144</td><td>45</td><td>57</td><td>20</td><td>65</td><td>81</td></tr> </table> | | Construction | A | B | C | | D | F | G | H | Low | 132 | 144 | 45 | 57 | 20 | 65 | 56 | High | 132 | 144 | 45 | 57 | 20 | 65 | 81 | 2 Side entry High construction | M25 | PG21 | H24B-SDRH-BO-2M25 |
| Construction | A | B | C | D | F | G | H | | | | | | | | | | | | | | | | | | | | | | | |
| Low | 132 | 144 | 45 | 57 | 20 | 65 | 56 | | | | | | | | | | | | | | | | | | | | | | | |
| High | 132 | 144 | 45 | 57 | 20 | 65 | 81 | | | | | | | | | | | | | | | | | | | | | | | |
| | | M32 | PG29 | H24B-SDRH-BO-2M32 | T 1 49 024 0232-000 | | | | | | | | | | | | | | | | | | | | | | | | | |


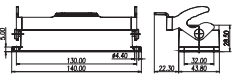

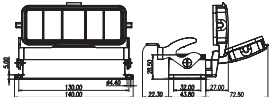

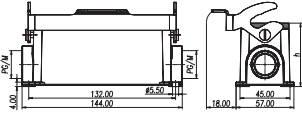

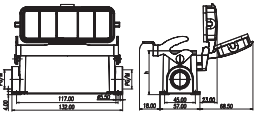
H24B with 1 lever on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | | Metr. | PG | Type | 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 | | | | | | | | | | | |
|  | 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 hood | | | | | | | | | | | |
|  |  <table border="1" data-bbox="531 1339 743 1429"> <thead> <tr> <th>Construction</th> <th>H</th> </tr> </thead> <tbody> <tr> <td>Low</td> <td>62.5</td> </tr> <tr> <td>High</td> <td>78.5</td> </tr> </tbody> </table> | Construction | H | Low | 62.5 | High | 78.5 | Low construction (M25, M32) High construction (M25, M32, M40) | 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 |
| Construction | H | | | | | | | | | | |
| Low | 62.5 | | | | | | | | | | |
| High | 78.5 | | | | | | | | | | |
| Protection covers for hoods | | | | | | | | | | | |
|  | | | | H24B-KDTP-LB | T 1 01 024 1500-000 | | | | | | |

H24B with 1 lever on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | Metr. | PG | Type | Part Number | | | | | | | | |
|---|---|--------------|------------|---------------------|----|------|----|---|--|--|--|--|
| Bulkhead mounted | | | | | | | | | | | | |
|  |  | | H24B-AG-LB | T 1 50 024 3000-000 | | | | | | | | |
|  | With protection cover  | | H24B-AD-LB | T 1 51 024 3000-000 | | | | | | | | |
| Surface mounted: Side entry | | | | | | | | | | | | |
|  |  <table border="1" data-bbox="320 1176 539 1272"> <tr><td>Construction</td><td>H</td></tr> <tr><td>Low</td><td>56</td></tr> <tr><td>High</td><td>81</td></tr> </table> | Construction | H | Low | 56 | High | 81 | Low construction 1 Side entry 2 Side entry High construction 1 Side entry 2 Side entry | M20 M25 M20 M25 M25 M32 M25 M32 | PG16 PG21 PG16 PG21 PG21 PG29 PG21 PG29 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-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 3220-000 T 1 61 024 3225-000 T 1 65 024 3121-000 T 1 65 024 3129-000 T 1 65 024 3125-000 T 1 65 024 3132-000 T 1 65 024 3221-000 T 1 65 024 3229-000 T 1 65 024 3225-000 T 1 65 024 3232-000 |
| Construction | H | | | | | | | | | | | |
| Low | 56 | | | | | | | | | | | |
| High | 81 | | | | | | | | | | | |
|  | With protection cover  <table border="1" data-bbox="320 1601 539 1697"> <tr><td>Construction</td><td>H</td></tr> <tr><td>Low</td><td>56</td></tr> <tr><td>High</td><td>81</td></tr> </table> | Construction | H | Low | 56 | High | 81 | Low construction 1 Side entry 2 Side entry High construction 1 Side entry 2 Side entry | M20 M25 M20 M25 M25 M32 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-2PG21 H24B-SDR-LB-2M20 H24B-SDR-LB-2M25 H24B-SDRH-LB-PG21 H24B-SDRH-LB-PG29 H24B-SDRH-LB-M25 H24B-SDRH-LB-M32 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 3220-000 T 1 62 024 3225-000 T 1 66 024 3121-000 T 1 66 024 3129-000 T 1 66 024 3125-000 T 1 66 024 3132-000 T 1 66 024 3221-000 T 1 66 024 3229-000 T 1 66 024 3225-000 T 1 66 024 3232-000 |
| Construction | H | | | | | | | | | | | |
| Low | 56 | | | | | | | | | | | |
| High | 81 | | | | | | | | | | | |

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


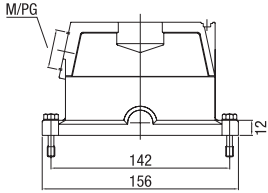

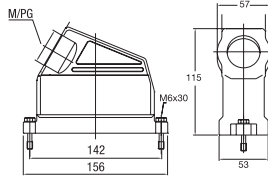

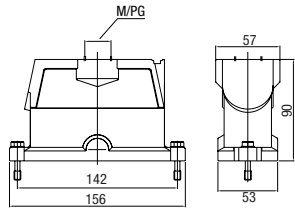
HIP: Pressure-tight, silver-grey

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 | Type | Part Number | | |
|---|--|---|---|--|--|---|
| Hood: Side entry, Standard construction | | | | | | |
|  |  | M40 | 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 | HIP-K HIP-K.24/64.STS.1.29.G HIP-K.24/64.STS.1.M40.G | 2-1102660-5 0-1106473-4 | | |
| | | M25 M32 M40 | 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 | | |
|  |  | M40 | 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 | | |
| | | M40 | HIP-K HIP-KF/K.24/64.STS.1.29.G HIP-KF/K.24/64.STS.1.36.G HIP-KF/K.24/64.STS.1.M40.G | 2-1102622-5 2-1102623-5 0-1106474-2 | | |
| | | M40 | 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 | 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 |
| | | | | 2xM32 M40 | 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 |
| 2xM40 | 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


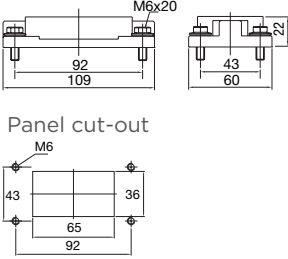

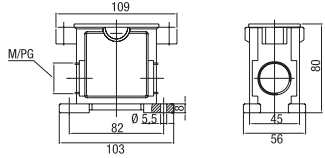

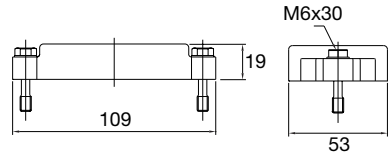
HIP: Pressure-tight, silver-grey

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

Pressure-tight up to 5 bar

IP 68 / IP 69 K

| Description | Metr. | PG | Type | Part Number |
|---|-------|------------|--|--|
| Surface mounted housing: Bottom entry | | | | |
|   | | | 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 | | | | |
|   | 2xM32 | 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.M32.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 | | | | |
|   | | | HIP HIP/EMV.10/24.SKB HIP-K/EMV-K HIP-K/EMV-K.10/24.SKB | 3-1106202-5 4-1106202-5 |


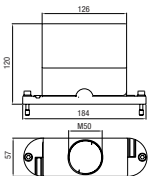

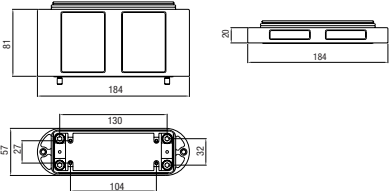

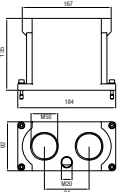

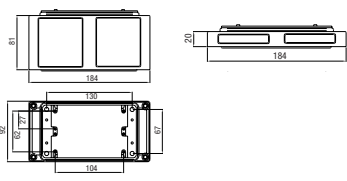
HF-HIP-K 8/HF-EMV-K 8, HF-HIP-K 12/HF-EMV-K 12 housings

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 | Type | Part Number |
|---|---|---|--|--|
| Hood | | | | |
|  |  | 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 | | | | |
|  |  | Height 20 mm 20 mm 81 mm 81 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 | | | | |
|  |  | Height 20 mm 20 mm 81 mm 81 mm | HF-HIP-K.12.AG.N HF-EMV-K.12.AG.N HF-HIP-K.12.AG HF-EMV-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 circuits.

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.

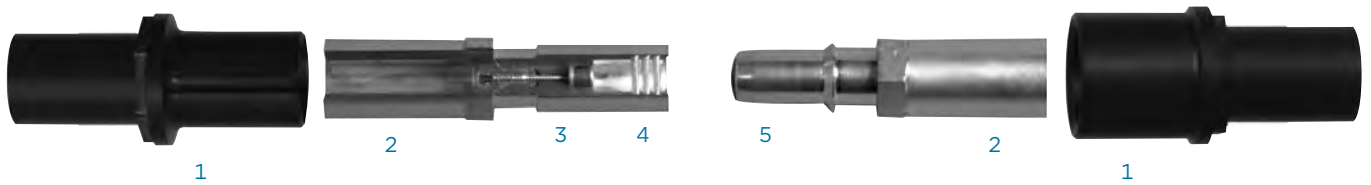
Due to the modular structure the different varieties of customer requirements in this sector can be met.

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


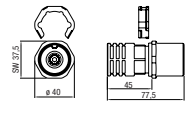

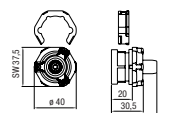

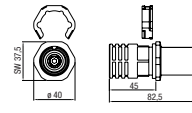

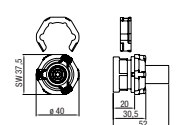
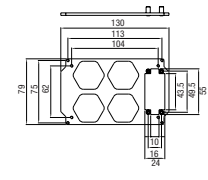
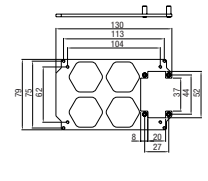
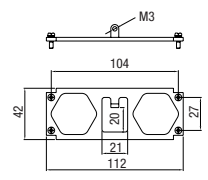
- Wear-resistant basic material
- Worn parts can be individually exchanged
- Surface coating according to customer application
- 30% reduced mating and pulling forces
- 50% increase of making cycles
- Variable wire termination

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


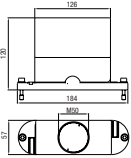
| Description | Dimensions (mm) | Type | Part Number | |
|--|---|-------------|-------------|---------------|
| | | | Male insert | Female insert |
|  |  | HF.13.Sti. | 0-1110950-2 | |
|  |  | HF.13.Sti.E | 0-1110950-4 | |
|  |  | HF.13.Bu. | | 0-1110951-2 |
|  |  | HF.13.Bu.E | | 0-1110951-4 |
| | | | Top | Bottom |
| 3 x for power 1 x for earth 1 x for signal (HA.10) Assembly in HF.12 Housings |  | | 0-1110955-3 | 0-1110955-1 |
| 3 x for power 1 x for earth 1x for signal (HE.6) Assembly in HF.12 Housings |  | | 0-1110955-4 | 0-1110955-2 |
| 2 x for power 1 x signal Assembly in HF.8 Housings |  | | 0-1110960-2 | 0-1110960-1 |

HF.8 housings


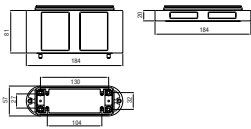
EMV-K: corrosion-resistant, black; HIP-K: black

Screw lock on hood

IP 68 / IP 69 K

| Description | Metr. | Height | Type | Part Number |
|---|-------------|--------|----------------------------|-------------|
| Hood | | | | |
|   | 1xM50 | | HF-HIP-K.8.Sto.1.M50G | 0-1102839-4 |
| | 1xM50 | | HF.8.EMV-K.8.Sto.1.M50G | 0-1102839-3 |
| | 2xM40 | | HF.HIP-K.8.Sto.2.M40G | 0-1102839-2 |
| | 2xM40 | | HF.EMV-K.8.Sto.2.M40G | 0-1102839-1 |
| | 2xM40+1xM16 | | HF.HIP.K8.Sto.2.M40G.1M16G | 0-1102839-6 |
| | 2xM40+1xM16 | | HF.EMV.K8.Sto.2.M40G.1M16G | 0-1102839-5 |


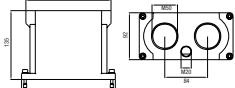
Housing bottom

| | | | | |
|---|--|----|-----------------|-------------|
|   | | 20 | HF-HIP-K.8.AG.N | 0-1102837-2 |
| | | 20 | HF-EMV-K.8.AG.N | 0-1102837-1 |
| | | 81 | HF-HIP-K.8.AG | 0-1102836-2 |
| | | 81 | HF-EMV-K.8.AG | 0-1102836-1 |


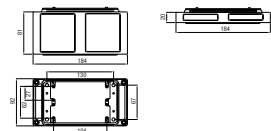
HF.12 housings

Screw lock on hood

IP 68 / IP 69 K

| Description | Metr. | Height | Type | Part Number |
|---|-------|--------|-----------------------------|-------------|
| Hood | | | | |
|   | 2xM40 | | HF-HIP-K.12.Sto.2.M40.1M20G | 0-1102840-2 |
| | 2xM40 | | HF-EMV-K.12.Sto.2.M40.1M20G | 0-1102840-1 |
| | 2xM50 | | HF-HIP-K.12.Sto.2.M50.1M20G | 0-1102840-4 |
| | 2xM50 | | HF-EMV-K.12.Sto.2.M50.1M20G | 0-1102840-3 |

Housing bottom


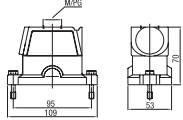

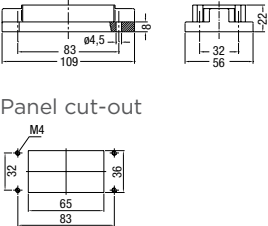

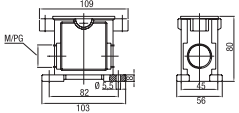
| | | | | |
|---|--|----|------------------|-------------|
|   | | 20 | HF-HIP-K.12.AG.N | 0-1102838-2 |
| | | 20 | HF-EMV-K.12.AG.N | 0-1102838-1 |
| | | 81 | HF-HIP-K.12.AG | 0-1102192-2 |
| | | 81 | HF-EMVK-K.12.AG | 0-1102192-1 |

EMV-K 10/24 housings

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

Screw lock on hood

IP 68 / IP 69 K

| Description | Metr. | PG | Type | Part Number |
|--|-------|----|---|----------------------------|
| Hood: Top entry | | | | |
|   | M25 | 21 | EMV-K.10/24.Sto.1.21G EMV-K.10/24.Sto.1.M25G | 4-1102715-5 0-1106427-4 |
| Surface mounted housing: Bottom entry | | | | |
|   <p>Panel cut-out</p> | | | EMV-K.10/24.AG | 4-1102718-5 |
| Surface mounted housing: side entry | | | | |
|   | 2xM32 | 21 | EMV-K.10/24.SG.1.21G EMV-K.10/24.SG.2.M32G | 4-1102716-5 0-1106426-2 |



Crimping sleeves

CRIMPING SLEEVES FOR CONTACT SERIES HF-13

MAX. 350A

| Description | Dimensions (mm) | Type | Part Number |
|---|--|--------------------------------|-------------|
| Crimp barrel for pin-/socket side - shrink tube - crimp barrel - adapter |  | CH.50mm ² -13/16mm | 0-1110953-5 |
| | | CH.70mm ² -13/16mm | 0-1110953-6 |
| | | CH.95mm ² -13/16mm | 0-1110953-7 |
| | | CH.105mm ² -13/16mm | 0-1110953-8 |
| | | CH.120mm ² -13/16mm | 0-1110953-9 |
| | | CH.150mm ² -13/16mm | 1-1110953-1 |

SUITABLE TOOL

| Description | | Type | Part Number |
|-------------------------------------|---|-------------------------------|---|
| Crimping tool without crimping jaws |  | HSS-CSZ.2.5-70mm ² | 1-1105653-8 |
| Crimping jaws for HSL, HSS |  | CB-HSS-CSZ.6mm ² | 2-1105653-8 |
| | | CB-HSS-CSZ.10mm ² | 3-1105653-8 |
| | | CB-HSS-CSZ.16mm ² | 4-1105653-8 |
| | | CB-HSS-CSZ.25mm ² | 5-1105653-8 |
| | | CB-HSS-CSZ.35mm ² | 6-1105653-8 |
| | | CB-HSS-CSZ.50mm ² | 7-1105653-8 |
| | | CB-HSS-CSZ.70mm ² | 8-1105653-8 |
| | | Hydraulic Crimping tool |  | HF-CHZ | 0-1110956-1 |
| Dies |  | SET-50-150mm ² | 0-1110956-7 |
| | | 150mm ² -KZ22 | 0-1110956-6 |
| | | 120mm ² -KZ20 | 0-1110956-5 |
| | | 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



1. Specifications

DIN VDE 0110 Concerning clearance and clearance distances

DIN VDE 0627 Connectors and plug devices

2. Standards

DIN EN 60 664-1

DIN EN 61 984


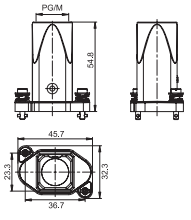

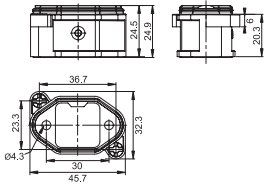

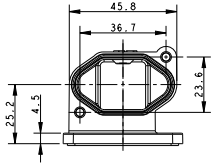
3. Approvals



RoHS


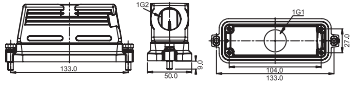

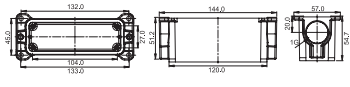
HPR (IP68) series hoods/housings

H3APR (IP68) SERIES

| Opposite angle locking | Metr. | PG | Type | Part Number |
|---|-------|------|---------------------------------|---|
| Top entry | | | | |
|   | M20 | PG16 | H3APR-MTG-PG16 H3APR-MTG-M20 | T 1 92 003 0116-000 T 1 92 003 0120-000 |
| Bulkhead mounted: Bottom entry | | | | |
|   | | | H3APR-MAG | T 1 93 003 0000-000 |
| Bulkhead mounted: Side entry | | | | |
|   | | | 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 | Type | Part Number |
|---|---|------|-------|--------------|--|--|
|  |  | H24B | M25 | PG21 PG29 | Top entry | T 1 82 224 2121-000 |
| | | | M32 | | H24BK-TGHC-PG21 H24BK-TGHC-PG29 H24BK-TGHC-M25 H24BK-TGHC-M32 H24BK-TGHC-M40 | T 1 82 224 2129-000 T 1 82 224 2125-000 T 1 82 224 2132-000 T 1 82 224 2140-000 |
| | | | M32 | PG21 | Side entry | T 1 81 224 2121-000 T 1 81 224 2125-000 T 1 81 224 2132-000 |
| Surface mounted side entry | | | | | | |
|  |  | H24B | M25 | PG21 | 1 side entry | T 1 85 224 2121-000 T 1 85 224 2125-000 |
| | | | M25 | PG21 | 2 side entry | T 1 85 224 2221-000 T 1 85 224 2225-000 |

Special hoods

SPECIAL HOODS (IP65) SERIES

| Double cable entry | Size | Metr. | PG | Type | Part Number |
|--|------|-------|--------|----------------|---------------------|
| Hood: Top entry | | | | | |
|  | H10B | 2xM20 | 2xPG16 | H10B-TGH-2PG16 | T 1 24 010 2116-000 |
| | | | | H10B-TGH-2M20 | T 1 24 010 2120-000 |
| | H16B | 2xM25 | 2xPG21 | H16B-TGH-2PG21 | T 1 24 016 2121-000 |
| | | | | H16B-TGH-2M25 | T 1 24 016 2125-000 |
| | H24B | 2xM25 | 2xPG21 | H24B-TGH-2PG21 | T 1 24 024 2121-000 |
| | | | | H24B-TGH-2M25 | T 1 24 024 2125-000 |
| Hood: Side entry | | | | | |
|  | H10B | 2xM20 | 2xPG16 | H10B-TFH-2PG16 | T 1 23 010 2116-000 |
| | | | | H10B-TFH-2M20 | T 1 23 010 2120-000 |
| | H16B | 2xM25 | 2xPG21 | H16B-TFH-2PG21 | T 1 23 016 2121-000 |
| | | | | H16B-TFH-2M25 | T 1 23 016 2125-000 |
| | H24B | 2xM25 | 2xPG21 | H24B-TFH-2PG21 | T 1 23 024 2121-000 |
| | | | | 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 | Type | H3A thermoplastic hoods, housings | Metr. | PG | Type |
|---|--|------|--|---|--|------|---|
| 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: Bottom entry | | | | Bulkhead mounting: Bottom entry | | | |
|  | | | H3A-MAG |  | | | H3A-AG |
| Bulkhead mounting: Side entry | | | | Bulkhead mounting: Side entry | | | |
|  | | | H3A-MAGS |  | | | H3A-AGS |
| Surface mounting: Side 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 | | | | Cable-to-cable hood | | | |
|  | M20 | PG11 | H3A-MTGVB-PG11 H3A-MTGVB-M20 |  | M20 | PG11 | H3A-TGVB-PG11 H3A-TGVB-M20 |
| Protection covers for hoods (thermoplastic) | | | | Protection covers for hoods | | | |
|  | Note: For mounted male insert and hood | | H3A-KDTP |  | Note: For mounted male insert and hood | | H3A-KDTP |
| Metal protection covers for hoods | | | | Protection covers for hoods | | | |
|  | Note: For mounted female insert and housings | | H3A-KDB |  | Note: For mounted female insert and housings | | H3A-KDBP (White) H3A-KDBPG (Grey) |
| | | | | White Grey | | | |

HA series hoods/housings

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

| H10A metal hoods, housings | | | | H16A metal hoods, housings | | | |
|---|--|--------------|---|---|--|----------------------|---|
| Metr. | PG | Type | | Metr. | PG | Type | |
| 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 PG21 | H16A-TS-PG16 H16A-TS-PG21 H16A-TS-M20 H16A-TS-M25 H16A-TSH-PG21 H16A-TSH-M25 |
| Hood: Top entry | | | | 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 hood | | | | Protection covers for hood | | | |
|  | | | H10A-KDT |  | | | 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 | PG16 PG21 | H10A-SGRS-PG16 H10A-SGRS-PG21 H10A-SGRS-M20 H10A-SGRS-M25 |  | 1 Side entry 2 Side entry M20 M25 | PG16 PG21 | H16A-SGRS-PG16 H16A-SGRS-PG21 H16A-SGRS-M20 H16A-SGRS-M25 |
|  | M20 M25 | PG16 PG21 | H10A-SGRS-2PG16 H10A-SGRS-2PG21 H10A-SGRS-2M20 H10A-SGRS-2M25 |  | M20 M25 | PG16 PG21 | H16A-SGRS-2PG16 H16A-SGRS-2PG21 H16A-SGRS-2M20 H16A-SGRS-2M25 |
|  | 1 Side entry 2 Side entry M20 M25 | PG16 PG21 | H10A-SDRMS-PG16 H10A-SDRMS-PG21 H10A-SDRMS-M20 H10A-SDRMS-M25 |  | 1 Side entry 2 Side entry M20 M25 | PG16 PG21 | H16A-SDRS-PG16 H16A-SDRS-PG21 H16A-SDRS-M20 H16A-SDRS-M25 |
|  | M20 M25 | PG16 PG21 | H10A-SDRMS-2PG16 H10A-SDRMS-2PG21 H10A-SDRMS-2M20 H10A-SDRMS-2M25 |  | M20 M25 | PG16 PG21 | H16A-SDRS-2PG16 H16A-SDRS-2PG21 H16A-SDRS-2M20 H16A-SDRS-2M25 |
| Cable-to-cable hood | | | | Cable-to-cable hood | | | |
|  | Low construction High construction M20 M25 M25 | PG16 PG21 | H10A-TBFS-PG16 H10A-TBFS-M20 H10A-TBFS-M25 H10A-TBFHS-PG21 H10A-TBFHS-M25 |  | Low 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 | | | | H8A thermoplastic hoods, housings | | | |
|---|--|------------------------------|--|---|-------|------|---------------------------|
| | Metr. | PG | Type | | Metr. | PG | Type |
| Hood: Side entry | | | | Hood: Side entry | | | |
|  | 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: Side entry | | | | | | | |
|  | 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 | | | | |

H6B series hoods/housings

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

| H6B metal hoods | Metr. | PG | Type | H6B metal housings | Metr. | PG | Type |
|---|--|--------------------------|--|---|---|--|--|
| 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: Side entry | | | |
|  | M20 M25 | PG16 PG21 | H6B-TG-PG16 H6B-TG-PG21 H6B-TG-M20 H6B-TG-M25 |  | Low construction 1 Side entry 2 Side entry | 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-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 |  | Low construction 1 Side entry 2 Side entry High construction 1 Side entry 2 Side entry | 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-2PG21 H6B-SDRS-2M20 H6B-SDRS-2M25 H6B-SDRHS-PG21 H6B-SDRHS-PG29 H6B-SDRHS-M25 H6B-SDRHS-M32 H6B-SDRHS-2PG21 H6B-SDRHS-2PG29 H6B-SDRHS-2M25 H6B-SDRHS-2M32 |
| Cable-to-cable hood | | | | | | | |
|  | Low construction M20 M25 High construction 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 | Type | H10B metal housings | Metr. | PG | Type | |
|---|-------------------|--------------|--|---|-----------------------------------|------------|--------------|--|
| Hood: Side entry | | | | Bulkhead mounted | | | | |
|  | M20 M25 | PG16 PG21 | H10B-TS-PG16 H10B-TS-PG21 H10B-TS-M20 H10B-TS-M25 |  | | | H10B-AGS | |
| Hood: Top entry | | | | 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 Low construction | M20 M25 | PG16 PG21 | H10B-SGRS-PG16 H10B-SGRS-PG21 H10B-SGRS-M20 H10B-SGRS-M25 |
| | | | | | 2 Side entry High construction | M20 M25 | PG16 PG21 | H10B-SGRS-2PG16 H10B-SGRS-2PG21 H10B-SGRS-2M20 H10B-SGRS-2M25 |
|  | M20 M25 | PG16 PG21 | H10B-TG-PG16 H10B-TG-PG21 H10B-TG-M20 H10B-TG-M25 |  | 1 Side entry High construction | M25 M32 | PG21 PG29 | H10B-SGRHS-PG21 H10B-SGRHS-PG29 H10B-SGRHS-M25 H10B-SGRHS-M32 |
| | | | | | 2 Side entry | M25 M32 | PG21 PG29 | H10B-SGRHS-2PG21 H10B-SGRHS-2PG29 H10B-SGRHS-2M25 H10B-SGRHS-2M32 |
| Cable-to-cable hood | | | | Side entry housing with two levers | | | | |
|  | M20 M25 M32 | PG21 PG29 | H10B-TGH-PG21 H10B-TGH-PG29 H10B-TGH-M20 H10B-TGH-M25 H10B-TGH-M32 |  | Low construction | M20 M25 | PG16 PG21 | H10B-TSBS-PG16 H10B-TSBS-PG21 H10B-TSBS-M20 H10B-TSBS-M25 |
| | | | | | High construction | M25 M32 | PG21 PG29 | H10B-TSBHS-PG21 H10B-TSBHS-PG29 H10B-TSBHS-M25 H10B-TSBHS-M32 |
| Protection covers for hoods | | | | Top entry housing with two levers | | | | |
|  | | | H10B-KDTP |  | Low construction | M20 M25 | PG16 PG21 | H10B-TGBS-PG16 H10B-TGBS-PG21 H10B-TGBS-M20 H10B-TGBS-M25 |
| | | | | | High construction | M25 M32 | PG21 PG29 | H10B-TGBHS-PG21 H10B-TGBHS-PG29 H10B-TGBHS-M25 H10B-TGBHS-M32 |
| Housing protection cover | | | | Bulkhead mounted with 4 bolts | | | | |
|  | | | H10B-KDBP |  | 1 Side entry Low construction | M20 M25 | PG16 PG21 | H10B-AD-BO H10B-SDR-BO-PG16 H10B-SDR-BO-PG21 H10B-SDR-BO-M20 H10B-SDR-BO-M25 |
| | | | | | 2 Side entry High construction | M20 M25 | PG16 PG21 | H10B-SDR-BO-2PG16 H10B-SDR-BO-2PG21 H10B-SDR-BO-2M20 H10B-SDR-BO-2M25 |
| | | | |  | 1 Side entry High construction | M25 M32 | PG21 PG29 | H10B-SDRH-BO-PG21 H10B-SDRH-BO-PG29 H10B-SDRH-BO-M25 H10B-SDRH-BO-M32 |
| | | | | | 2 Side entry | M25 M32 | PG21 PG29 | 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 | Type | H10B metal housings | Metr. | PG | Type |
|---|---|----------------------|--|---|---|----------------------------|--|
| 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: Side entry | | | |
|  | M20 M25 | PG16 PG21 | H10B-TG-RO-PG16 H10B-TG-RO-PG21 H10B-TG-RO-M20 H10B-TG-RO-M25 |  | Low construction 1 Side entry 2 Side entry | M20 M25 PG16 PG21 | 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 |
| | | | | | High construction 1 Side entry 2 Side entry | M25 M32 PG21 PG29 | H10B-SGRH-LB-PG21 H10B-SGRH-LB-PG29 H10B-SGRH-LB-M25 H10B-SGRH-LB-M32 H10B-SGRH-LB-2PG21 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 |  | Low construction 1 Side entry 2 Side entry | M20 M25 PG16 PG21 | 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 |
| | | | | | High construction 1 Side entry 2 Side entry | M25 M32 PG21 PG29 | H10B-SDRH-LB-PG21 H10B-SDRH-LB-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 | | | | | | | |
|  | Low construction M20 M25 High construction 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 hoods | | | | | | | |
|  | | | 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 | Type | H16B metal housings | Metr. | PG | Type | |
|---|---------------------------------------|---------------------------------|--|--|---|--------------------------|--|--|
| Hood: Side entry | | | | Bulkhead mounted | | | | |
|  | M25 M32 | PG16 PG21 | H16B-TS-PG16 H16B-TS-PG21 H16B-TS-M25 H16B-TS-M32 |  | | | H16B-AGS | |
|  | M25 M32 M40 | PG21 PG29 | H16B-TSH-PG21 H16B-TSH-PG29 H16B-TSH-M25 H16B-TSH-M32 H16B-TSH-M40 | Surface mounted: Side entry | | | | |
| | | | |  | Low construction 1 Side entry 2 Side entry | M25 M25 | PG21 PG21 | H16B-SGRS-PG21 H16B-SGRS-M25 H16B-SGRS-2PG21 H16B-SGRS-2M25 |
| | | | | High construction 1 Side entry 2 Side entry | M25 M32 M25 M32 | PG21 PG29 | H16B-SGRHS-PG21 H16B-SGRHS-PG29 H16B-SGRHS-M25 H16B-SGRHS-M32 H16B-SGRHS-2PG21 H16B-SGRHS-2PG29 H16B-SGRHS-2M25 H16B-SGRHS-2M32 | |
| Hood: Top entry | | | | Side entry housing with two levers | | | | |
|  | M25 M32 | PG16 PG21 | H16B-TG-PG16 H16B-TG-PG21 H16B-TG-M25 H16B-TG-M32 |  | Low construction 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 |
|  | M25 M32 M40 | PG21 PG29 | H16B-TGH-PG21 H16B-TGH-PG29 H16B-TGH-M25 H16B-TGH-M32 H16B-TGH-M40 | Top entry housing with two levers | | | | |
| | | | |  | Low construction High construction | 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 |
| Cable-to-cable hood | | | | Bulkhead mounted with 4 bolts | | | | |
|  | Low construction High construction | 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 |  | | | H16B-AD-BO |
| Protection covers for hoods | | | |  | | | | |
|  | | | H16B-KDTP | | | | | |
| Housing protection cover | | | |  | | | | |
|  | | | H16B-KDBP | | | | | |

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 | Type | H16B metal housings | Metr. | PG | Type |
|---|--|------------------------------|--|---|---|--|--|
| Hood: Side entry | | | | Bulkhead mounted | | | |
|  | 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 M32 | PG21 PG29 | H16B-TG-RO-PG21 H16B-TG-RO-PG29 H16B-TG-RO-M25 H16B-TG-RO-M32 |  | Low construction 1 Side entry 2 Side entry High construction 1 Side entry 2 Side entry | 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-PG21 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 |
|  | 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 |  | Low construction 1 Side entry 2 Side entry High construction 1 Side entry 2 Side entry | 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-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 | | | | | | | |
|  | Low construction M25 M32 High construction 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 hoods | | | | | | | |
|  | | | 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 | Type |
|---|--|----------------------|--|---|--|--|--|
| Hood: Side entry | | | | Bulkhead mounted | | | |
|  | M25 M32 | PG16 PG21 | H24B-TS-PG16 H24B-TS-PG21 H24B-TS-M25 H24B-TS-M32 |  | | | H24B-AGS |
| Hood: Side entry | | | | Surface mounted: Side entry | | | |
|  | M25 M32 M40 | PG21 PG29 | H24B-TSH-PG21 H24B-TSH-PG29 H24B-TSH-M25 H24B-TSH-M32 H24B-TSH-M40 |  | Low construction 1 Side entry - 2 Side entry M25 M25 High construction 1 Side entry - 1 Side entry M25 M32 2 Side entry - 2 Side entry 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-PG29 H24B-SGRHS-M25 H24B-SGRHS-M32 H24B-SGRHS-2PG21 H24B-SGRHS-2PG29 H24B-SGRHS-2M25 H24B-SGRHS-2M32 |
| Hood: Top entry | | | | Side entry housing with two levers | | | |
|  | M25 M32 | PG16 PG21 | H24B-TG-PG16 H24B-TG-PG21 H24B-TG-M25 H24B-TG-M32 |  | Low construction M20 High construction 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 |
| Hood: Top entry | | | | Top entry housing with two levers | | | |
|  | M25 M32 M40 | PG21 PG29 | H24B-TGH-PG21 H24B-TGH-PG29 H24B-TGH-M25 H24B-TGH-M32 H24B-TGH-M40 |  | Low construction M20 High construction 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 |
| Cable-to-cable hood | | | | Bulkhead mounted with 4 bolts | | | |
|  | Low construction M25 High construction 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 | | | | Housing protection cover | | | |
|  | | | H24B-KDTP |  | Low construction 1 Side entry - 2 Side entry M25 M25 High construction 1 Side entry - 1 Side entry M25 M32 2 Side entry - 2 Side entry M25 M32 | PG21 PG21 PG21 PG29 PG21 PG29 | H24B-SDR-BO-PG21 H24B-SDR-BO-M25 H24B-SDR-BO-2PG21 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-2PG29 H24B-SDRH-BO-2M25 H24B-SDRH-BO-2M32 |
|  | | | H24B-KDBP | | | | |

H24B with 1 lever on the hoods/housings

| H24B metal hoods | Metr. | PG | Type | H24B metal housings | Metr. | PG | Type |
|---|--|--------------|--|--|------------|--------------|--|
| 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: Side entry | | | |
|  | M25 M32 | PG21 PG29 | H24B-TG-RO-PG21 H24B-TG-RO-PG29 H24B-TG-RO-M25 H24B-TG-RO-M32 |  | M20 M25 | 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 H24B-SGR-LB-2M25 |
|  | 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 | | | | |
| Cable-to-cable hood | | | | | | | |
|  | Low construction M25 M32 | PG21 PG29 | H24B-TBF-LB-PG21 H24B-TBF-LB-PG29 H24B-TBF-LB-M25 H24B-TBF-LB-M32 |  | M20 M25 | 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 |
| | High construction 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 | | | | |
| Protection covers for hoods | | | | | | | |
|  | | | H24B-KDTP-LB | | | | |

H32B with 2 levers on the hoods/housings

| H32B with 2 levers on the hoods, housings | | | | H32B with 1 levers on the hoods, housings | | | |
|---|--------------------------|----------------------|---|---|--------------------------|----------------------|---|
| | Metr. | PG | Type | | Metr. | PG | Type |
| 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 | | | |
|  | | | H32B-AG |  | | | H32B-AG-LB |
| Surface mounted: Side entry | | | | Surface mounted: Side entry | | | |
|  | M32 M40 M50 M63 | PG29 PG36 PG42 | H32B-SGR-PG29 H32B-SGR-PG36 H32B-SGR-PG42 H32B-SGR-M32 H32B-SGR-M40 H32B-SGR-M50 H32B-SGR-M63 |  | M32 M40 M50 M63 | PG29 PG36 PG42 | H32B-SGR-2PG29 H32B-SGR-2PG36 H32B-SGR-2PG42 H32B-SGR-2M32 H32B-SGR-2M40 H32B-SGR-2M50 H32B-SGR-2M63 |
| Cable-to-cable hood | | | | Surface mounted: Side 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 |  | M32 M40 M32 M40 | PG29 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 hoods | | | | Protection covers for hoods | | | |
|  | | | H32B-KDB |  | M32 M40 M32 M40 | PG29 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 | Type | EMC metal hoods | Metr. | PG | Type |
|---|--------------------------|----------------------|--|---|-------|----|---|
| Hood: Side entry | | | | Hood: Side entry | | | |
|  | 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: Side entry | | | | Hood: Top entry | | | |
|  | M32 M40 M50 | PG29 PG36 PG42 | H48B-SGR-PG29 H48B-SGR-PG36 H48B-SGR-PG42 H48B-SGR-M32 H48B-SGR-M40 H48B-SGR-M50 |  | | | H3A-MTG-EMC-PG11 H3A-MTG-EMC-M20 H6B-TGBHS-EMC H10B-TGBHS-EMC H16B-TGBHS-EMC H24B-TGBHS-EMC |
|  | M32 M40 M50 | PG29 PG36 PG42 | H48B-SDR-PG29 H48B-SDR-PG36 H48B-SDR-PG42 H48B-SDR-M32 H48B-SDR-M40 H48B-SDR-M50 |  | | | 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 |
| Surface mounted with cover | | | | Bulkhead mounted | | | |
|  | M32 M40 M50 | PG29 PG36 PG42 | H48B-SDR-PG29 H48B-SDR-PG36 H48B-SDR-PG42 H48B-SDR-M32 H48B-SDR-M40 H48B-SDR-M50 |  | | | 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


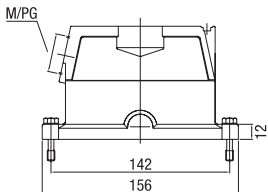

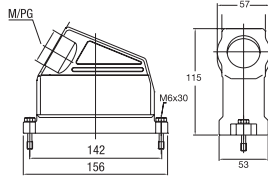

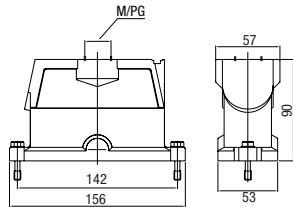
HIP: Pressure-tight, silver-grey

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 | Type | Part Number | | | | |
|---|---|--|---|---|--|---|---|---|
| Hood: Side entry, Standard construction | | | | | | | | |
|  |  | 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 | | | |
| | | 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 | | | |
| |  |  | 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 | | |
| | | | M40 | 29 36 | HIP-K HIP-KF/K.24/64.STS.1.29.G HIP-KF/K.24/64.STS.1.36.G HIP-KF/K.24/64.STS.1.M40.G | 2-1102622-5 2-1102623-5 0-1106474-2 | | |
| | | | 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 | | | |
| | | | | | 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 |
| 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 | | | |
| 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


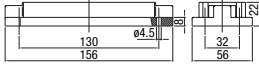

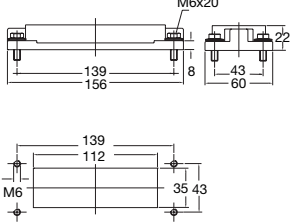

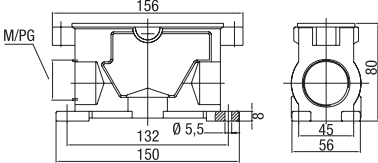

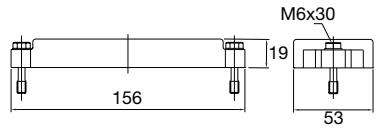
HIP: Pressure-tight, silver-grey

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

| Description | Metr. | PG | 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 |
|  |  | | HIP HIP.24/64.AG.M6 | 1-1102626-5 |
| | | | HIP-K HIP-K.24/64.AG.M6 | 2-1102626-5 |
| | | | HIP-K HIP-K.24/64.AG.M6.D | 2-1102628-5 |
| | | | HIP-K 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 | | | | |
|  |  | 2xM40 | HIP HIP.24/64.SG.1.29.G | 1-1102624-5 |
| | | | HIP HIP.24/64.SG.2.29.G | 1-1102625-5 |
| | | | HIP HIP.24/64.SG.2.M40.G | 0-1106472-1 |
| | | 2xM40 | HIP-K HIP-K.24/64.SG.1.29.G | 5-1102624-5 |
| | | | HIP-K HIP-K.24/64.SG.2.29.G | 2-1102625-5 |
| | | | HIP-K HIP-K.24/64.SG.2.M40.G | 0-1106472-2 |
| | | 2xM40 | EMV-K EMV-K.24/64.SG.1.29.G | 4-1102734-5 |
| | | | EMV-K EMV-K.24/64.SG.2.29.G | 4-1102735-5 |
| | | | EMV-K EMV-K.24/64.SG.2.M40.G | 0-1106460-2 |
| Protective cover housings | | | | |
|  |  | | HIP HIP/EMV.24/64.SKB | 3-1106204-5 |
| | | | HIP-K/EMV-K HIP-K/EMV-K.24/64.SKB | 4-1106204-5 |


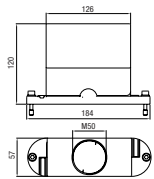

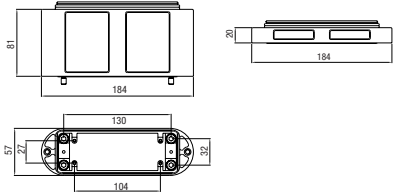

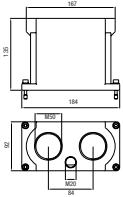

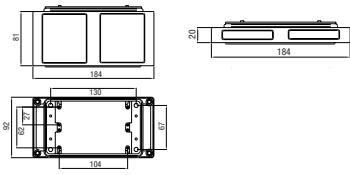
HF-HIP-K 8/HF-EMV-K 8, HF-HIP-K 12/HF-EMV-K 12 housings

HIP: Pressure-tight, silver-grey

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


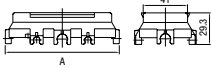

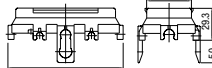

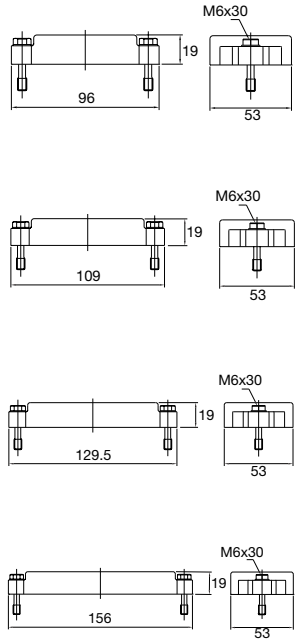
EMV-K: Protection against electro-magnetic interference, pressure-tight, housings corrosion-resistant, black

Screw lock on hood

| Description | Metr. | PG | Type | Part Number |
|---|----------------------------------|----------------|--|--|
| Hood | | | | |
|   | 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 | | | | |
|   | Height 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 | | | | |
|   | Height 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-EMV-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 | Type | Part Number | | | | | | | |
|---|--|---|---|---|-----|---|-----|--|---|
| Protective cover for hoods and housings with bolts | | | | | | | | | |
|  <p>Size 6/8</p> |  <table border="1" data-bbox="448 622 632 712"> <thead> <tr> <th>Size</th> <th>A=mm</th> </tr> </thead> <tbody> <tr> <td>6</td> <td>105</td> </tr> <tr> <td>8</td> <td>132</td> </tr> </tbody> </table> | Size | A=mm | 6 | 105 | 8 | 132 | <p>SKP.6 SKP.8</p> <p>with attachment string SKP.6.F SKP.8.F</p> | <p>0-1110684-3 0-1110661-3</p> <p>0-1106258-3 0-1106258-4</p> |
| Size | A=mm | | | | | | | | |
| 6 | 105 | | | | | | | | |
| 8 | 132 | | | | | | | | |
| Protective cover for hoods with central locking clip | | | | | | | | | |
|  <p>Size 6/8</p> |  <table border="1" data-bbox="448 880 632 969"> <thead> <tr> <th>Size</th> <th>A=mm</th> </tr> </thead> <tbody> <tr> <td>6</td> <td>105</td> </tr> <tr> <td>8</td> <td>132</td> </tr> </tbody> </table> | Size | A=mm | 6 | 105 | 8 | 132 | <p>SKP.6/R SKP.8/R</p> <p>with attachment string SKP.6/R.F SKP.8/R.F</p> | <p>0-1110684-4 0-1110661-4</p> <p>0-1106259-3 0-1106259-4</p> |
| Size | A=mm | | | | | | | | |
| 6 | 105 | | | | | | | | |
| 8 | 132 | | | | | | | | |
| Protective covers for housings series HIP, EMV, EMV-K | | | | | | | | | |
|  |  | <p>HIP HIP/EMV.6/16.SKB</p> <p>HIP-K HIP-K/EMV-K.6/16.SKB</p> <p>HIP HIP/EMV.10/24.SKB</p> <p>HIP-K/EMV-K HIP-K/EMV-K.10/24.SKB</p> <p>HIP HIP/EMV.16/40.SKB</p> <p>HIP-K HIP-K.16/40.SKB</p> <p>HIP HIP/EMV.24/64.SKB</p> <p>HIP-K/EMV-K HIP-K/EMV-K.24/64.SKB</p> | <p>3-1106201-5</p> <p>4-1106201-5</p> <p>3-1106202-5</p> <p>4-1106202-5</p> <p>3-1106203-5</p> <p>4-1106203-5</p> <p>3-1106204-5</p> <p>4-1106204-5</p> | | | | | | |

HPR (IP68) series hoods/housings

HBPR (IP68) SERIES

| Opposite angle locking | Size | Metr. | PG | Type | Part Number | | | | | | | | | | | | | | | |
|---|---|--------------------------------|----------------------|----------------|---------------------|-----|-----|--------|-----|-----|--------|-----|-----|--------|-----|-----|---------------------------------|----------------------|-----------------|---------------------|
| Hood: Side entry | | | | | | | | | | | | | | | | | | | | |
|  |  | H6BPR M20 M25 M32 | PG16 PG21 PG29 | H6BPR-TSH-PG16 | T 1 91 006 0116-000 | | | | | | | | | | | | | | | |
| | | | | H6BPR-TSH-PG21 | T 1 91 006 0121-000 | | | | | | | | | | | | | | | |
| | | | | H6BPR-TSH-PG29 | T 1 91 006 0129-000 | | | | | | | | | | | | | | | |
| | | | | H6BPR-TSH-M20 | T 1 91 006 0120-000 | | | | | | | | | | | | | | | |
| | H6BPR-TSH-M25 | T 1 91 006 0125-000 | | | | | | | | | | | | | | | | | | |
| | H6BPR-TSH-M32 | T 1 91 006 0132-000 | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th>SIZE</th> <th>A</th> <th>H</th> </tr> </thead> <tbody> <tr> <td>H6BPR</td> <td>133</td> <td>101</td> </tr> <tr> <td>H10BPR</td> <td>146</td> <td>101</td> </tr> <tr> <td>H16BPR</td> <td>166</td> <td>111</td> </tr> <tr> <td>H24BPR</td> <td>193</td> <td>111</td> </tr> </tbody> </table> | 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 | T 1 91 010 0116-000 |
| | | SIZE | A | H | | | | | | | | | | | | | | | | |
| | | H6BPR | 133 | 101 | | | | | | | | | | | | | | | | |
| | | H10BPR | 146 | 101 | | | | | | | | | | | | | | | | |
| | H16BPR | 166 | 111 | | | | | | | | | | | | | | | | | |
| | H24BPR | 193 | 111 | | | | | | | | | | | | | | | | | |
| | H10BPR-TSH-PG21 | T 1 91 010 0121-000 | | | | | | | | | | | | | | | | | | |
| | H10BPR-TSH-PG29 | T 1 91 010 0129-000 | | | | | | | | | | | | | | | | | | |
| | H10BPR-TSH-M20 | T 1 91 010 0120-000 | | | | | | | | | | | | | | | | | | |
| | H10BPR-TSH-M25 | T 1 91 010 0125-000 | | | | | | | | | | | | | | | | | | |
| H10BPR-TSH-M32 | T 1 91 010 0132-000 | | | | | | | | | | | | | | | | | | | |
| H16BPR M25 M32 M40 | PG16 PG21 PG29 | H16BPR-TSH-PG16 | T 1 91 016 0116-000 | | | | | | | | | | | | | | | | | |
| | | H16BPR-TSH-PG21 | T 1 91 016 0121-000 | | | | | | | | | | | | | | | | | |
| | | H16BPR-TSH-PG29 | T 1 91 016 0129-000 | | | | | | | | | | | | | | | | | |
| | | H16BPR-TSH-M25 | T 1 91 016 0125-000 | | | | | | | | | | | | | | | | | |
| H16BPR-TSH-M32 | T 1 91 016 0132-000 | | | | | | | | | | | | | | | | | | | |
| H16BPR-TSH-M40 | T 1 91 016 0140-000 | | | | | | | | | | | | | | | | | | | |
| H24BPR M25 M32 M40 | PG16 PG21 PG29 | H24BPR-TSH-PG16 | T 1 91 024 0116-000 | | | | | | | | | | | | | | | | | |
| | | H24BPR-TSH-PG21 | T 1 91 024 0121-000 | | | | | | | | | | | | | | | | | |
| | | H24BPR-TSH-PG29 | T 1 91 024 0129-000 | | | | | | | | | | | | | | | | | |
| | | H24BPR-TSH-M25 | T 1 91 024 0125-000 | | | | | | | | | | | | | | | | | |
| H24BPR-TSH-M32 | T 1 91 024 0132-000 | | | | | | | | | | | | | | | | | | | |
| H24BPR-TSH-M40 | T 1 91 024 0140-000 | | | | | | | | | | | | | | | | | | | |
| Hood: Top entry | | | | | | | | | | | | | | | | | | | | |
|  |  | H6BPR M20 M25 M32 | PG16 PG21 PG29 | H6BPR-TGH-PG16 | T 1 92 006 0116-000 | | | | | | | | | | | | | | | |
| | | | | H6BPR-TGH-PG21 | T 1 92 006 0121-000 | | | | | | | | | | | | | | | |
| | | | | H6BPR-TGH-PG29 | T 1 92 006 0129-000 | | | | | | | | | | | | | | | |
| | | | | H6BPR-TGH-M20 | T 1 92 006 0120-000 | | | | | | | | | | | | | | | |
| | H6BPR-TGH-M25 | T 1 92 006 0125-000 | | | | | | | | | | | | | | | | | | |
| | H6BPR-TGH-M32 | T 1 92 006 0132-000 | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th>SIZE</th> <th>A</th> <th>H</th> </tr> </thead> <tbody> <tr> <td>H6BPR</td> <td>133</td> <td>101</td> </tr> <tr> <td>H10BPR</td> <td>146</td> <td>101</td> </tr> <tr> <td>H16BPR</td> <td>166</td> <td>111</td> </tr> <tr> <td>H24BPR</td> <td>193</td> <td>111</td> </tr> </tbody> </table> | 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 | T 1 92 010 0116-000 |
| | | SIZE | A | H | | | | | | | | | | | | | | | | |
| | | H6BPR | 133 | 101 | | | | | | | | | | | | | | | | |
| | | H10BPR | 146 | 101 | | | | | | | | | | | | | | | | |
| | H16BPR | 166 | 111 | | | | | | | | | | | | | | | | | |
| | H24BPR | 193 | 111 | | | | | | | | | | | | | | | | | |
| | H10BPR-TGH-PG21 | T 1 92 010 0121-000 | | | | | | | | | | | | | | | | | | |
| | H10BPR-TGH-PG29 | T 1 92 010 0129-000 | | | | | | | | | | | | | | | | | | |
| | H10BPR-TGH-M20 | T 1 92 010 0120-000 | | | | | | | | | | | | | | | | | | |
| | H10BPR-TGH-M25 | T 1 92 010 0125-000 | | | | | | | | | | | | | | | | | | |
| H10BPR-TGH-M32 | T 1 92 010 0132-000 | | | | | | | | | | | | | | | | | | | |
| H16BPR M25 M32 M40 | PG16 PG21 PG29 | H16BPR-TGH-PG16 | T 1 92 016 0116-000 | | | | | | | | | | | | | | | | | |
| | | H16BPR-TGH-PG21 | T 1 92 016 0121-000 | | | | | | | | | | | | | | | | | |
| | | H16BPR-TGH-PG29 | T 1 92 016 0129-000 | | | | | | | | | | | | | | | | | |
| | | H16BPR-TGH-M25 | T 1 92 016 0125-000 | | | | | | | | | | | | | | | | | |
| H16BPR-TGH-M32 | T 1 92 016 0132-000 | | | | | | | | | | | | | | | | | | | |
| H16BPR-TGH-M40 | T 1 92 016 0140-000 | | | | | | | | | | | | | | | | | | | |
| H24BPR M25 M32 M40 | PG16 PG21 PG29 | H24BPR-TGH-PG16 | T 1 92 024 0116-000 | | | | | | | | | | | | | | | | | |
| | | H24BPR-TGH-PG21 | T 1 92 024 0121-000 | | | | | | | | | | | | | | | | | |
| | | H24BPR-TGH-PG29 | T 1 92 024 0129-000 | | | | | | | | | | | | | | | | | |
| | | H24BPR-TGH-M25 | T 1 92 024 0125-000 | | | | | | | | | | | | | | | | | |
| H24BPR-TGH-M32 | T 1 92 024 0132-000 | | | | | | | | | | | | | | | | | | | |
| H24BPR-TGH-M40 | T 1 92 024 0140-000 | | | | | | | | | | | | | | | | | | | |


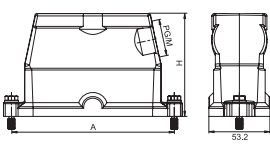

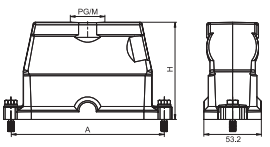

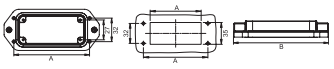

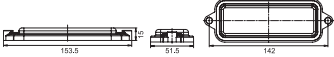
HPR (IP68) series hoods/housings

HBPR (IP68) SERIES

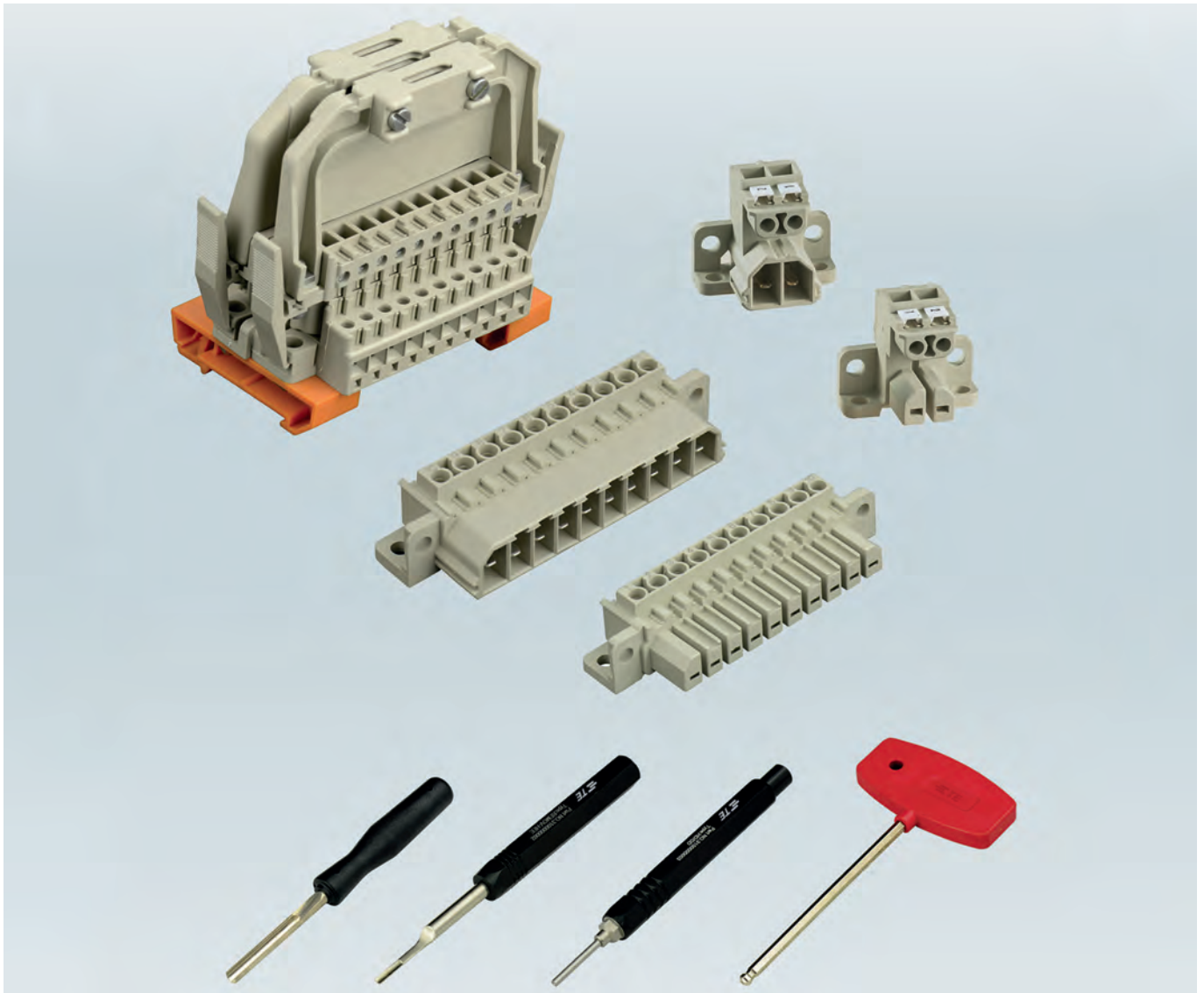
| Opposite angle locking | Size | Metr. | PG | Type | Part Number | | | | | | | | | | | | | | | | | | | | |
|---|------|-------|-------|--------|-------------|-----|---|------------|--------------|--|--|----|--------|---|--|----|--------|-----|-----|-----|--|--|--|---|--|
| Bulkhead mounted | | | | | | | | | | | | | | | | | | | | | | | | | |
|  <table border="1"> <tr> <td>SIZE</td> <td>A</td> <td>B</td> <td>C</td> </tr> <tr> <td>H6BPR</td> <td>70</td> <td>133</td> <td>48</td> </tr> <tr> <td>H10BPR</td> <td>83</td> <td>146</td> <td>60</td> </tr> <tr> <td>H16BPR</td> <td>103</td> <td>166</td> <td>82</td> </tr> <tr> <td>H24BPR</td> <td>130</td> <td>193</td> <td>108</td> </tr> </table> | 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 |
| SIZE | A | B | C | | | | | | | | | | | | | | | | | | | | | | |
| H6BPR | 70 | 133 | 48 | | | | | | | | | | | | | | | | | | | | | | |
| H10BPR | 83 | 146 | 60 | | | | | | | | | | | | | | | | | | | | | | |
| H16BPR | 103 | 166 | 82 | | | | | | | | | | | | | | | | | | | | | | |
| H24BPR | 130 | 193 | 108 | | | | | | | | | | | | | | | | | | | | | | |
| Straight surface mounted | | | | | | | | | | | | | | | | | | | | | | | | | |
|  <table border="1"> <tr> <td>SIZE</td> <td>A</td> <td>B</td> </tr> <tr> <td>H10BPR</td> <td>140</td> <td>169</td> </tr> </table> | 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 | | | | | | | | | | | | | | |
| SIZE | A | B | | | | | | | | | | | | | | | | | | | | | | | |
| H10BPR | 140 | 169 | | | | | | | | | | | | | | | | | | | | | | | |
| Cover | | | | | | | | | | | | | | | | | | | | | | | | | |
|  <table border="1"> <tr> <td>SIZE</td> <td>A</td> </tr> <tr> <td>H6BPR</td> <td>133</td> </tr> <tr> <td>H10BPR</td> <td>146</td> </tr> <tr> <td>H16BPR</td> <td>166</td> </tr> <tr> <td>H24BPR</td> <td>193</td> </tr> </table> | 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 | | | | | | | | | | |
| SIZE | A | | | | | | | | | | | | | | | | | | | | | | | | |
| H6BPR | 133 | | | | | | | | | | | | | | | | | | | | | | | | |
| H10BPR | 146 | | | | | | | | | | | | | | | | | | | | | | | | |
| H16BPR | 166 | | | | | | | | | | | | | | | | | | | | | | | | |
| H24BPR | 193 | | | | | | | | | | | | | | | | | | | | | | | | |
| Frame | | | | | | | | | | | | | | | | | | | | | | | | | |
|  <table border="1"> <tr> <td>SIZE</td> <td>A</td> <td>B</td> </tr> <tr> <td>H24BPR</td> <td>130</td> <td>156</td> </tr> </table> | SIZE | A | B | H24BPR | 130 | 156 |  H24BPR | | | H24BPR-FRAME | T 1 99 024 0001-000 | | | | | | | | | | | | | | |
| SIZE | A | B | | | | | | | | | | | | | | | | | | | | | | | |
| H24BPR | 130 | 156 | | | | | | | | | | | | | | | | | | | | | | | |

HPR (IP68) series hoods/housings

HBPR (IP68) SERIES

| Central locking | | Size | Metr. | PG | Type | Part Number | | | | | | | | | | | | | | | | | | | | | | |
|---|--|---|--|----------------------|---|--|-------|--------|-----|--------|--------|--------|--------|--------|-----|--------|-------|-------------------|----------------------|---|--|---|--|-------------------------------------|--|--|---|--|
| Hood: Side entry | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | SIZE | A | H | | | | | | | | | | | | | | | | | | | | | | | | |
| | | H6BPR | 96 | 70 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | H10BPR | 110 | 70 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | H16BPR | 130 | 80 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | H24BPR | 156 | 80 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | H10BPR | M25 M32 M40 | PG21 PG29 PG36 | H10BPR-TSHC-PG21 H10BPR-TSHC-PG29 H10BPR-TSHC-PG36 H10BPR-TSHC-M25 H10BPR-TSHC-M32 H10BPR-TSHC-M40 | T 1 91 210 1121-000 T 1 91 210 1129-000 T 1 91 210 1136-000 T 1 91 210 1125-000 T 1 91 210 1132-000 T 1 91 210 1140-000 | | | | | | | | | | | | | | | | | | | | | | |
| | | H16BPR | M25 M32 M40 | PG21 PG29 PG36 | H16BPR-TSHC-PG21 H16BPR-TSHC-PG29 H16BPR-TSHC-PG36 H16BPR-TSHC-M25 H16BPR-TSHC-M32 H16BPR-TSHC-M40 | T 1 91 216 1121-000 T 1 91 216 1129-000 T 1 91 216 1136-000 T 1 91 216 1125-000 T 1 91 216 1132-000 T 1 91 216 1140-000 | | | | | | | | | | | | | | | | | | | | | | |
| | | H24BPR | M25 M32 M40 | PG21 PG29 PG36 | H24BPR-TSHC-PG21 H24BPR-TSHC-PG29 H24BPR-TSHC-PG36 H24BPR-TSHC-M25 H24BPR-TSHC-M32 H24BPR-TSHC-M40 | T 1 91 224 1121-000 T 1 91 224 1129-000 T 1 91 224 1136-000 T 1 91 224 1125-000 T 1 91 224 1132-000 T 1 91 224 1140-000 | | | | | | | | | | | | | | | | | | | | | | |
| | | Hood: Top entry | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | | SIZE | A | H | | | | | | | | | | | | | | | | | | | | | | |
| | | | | H6BPR | 96 | 70 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | H10BPR | 110 | 70 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | H16BPR | 130 | 80 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | H24BPR | 156 | 80 | | | | | | | | | | | | | | | | | | | | | | |
| H10BPR | M25 M32 M40 | | | PG21 PG29 PG36 | H10BPR-TGHC-PG21 H10BPR-TGHC-PG29 H10BPR-TGHC-PG36 H10BPR-TGHC-M25 H10BPR-TGHC-M32 H10BPR-TGHC-M40 | T 1 92 210 1121-000 T 1 92 210 1129-000 T 1 92 210 1136-000 T 1 92 210 1125-000 T 1 92 210 1132-000 T 1 92 210 1140-000 | | | | | | | | | | | | | | | | | | | | | | |
| H16BPR | M25 M32 M40 | | | PG21 PG29 PG36 | H16BPR-TGHC-PG21 H16BPR-TGHC-PG29 H16BPR-TGHC-PG36 H16BPR-TGHC-M25 H16BPR-TGHC-M32 H16BPR-TGHC-M40 | T 1 92 216 1121-000 T 1 92 216 1129-000 T 1 92 216 1136-000 T 1 92 216 1125-000 T 1 92 216 1132-000 T 1 92 216 1140-000 | | | | | | | | | | | | | | | | | | | | | | |
| H24BPR | M25 M32 M40 | | | PG21 PG29 PG36 | H24BPR-TGHC-PG21 H24BPR-TGHC-PG29 H24BPR-TGHC-PG36 H24BPR-TGHC-M25 H24BPR-TGHC-M32 H24BPR-TGHC-M40 | 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 T 1 92 224 1140-000 | | | | | | | | | | | | | | | | | | | | | | |
| Bulkhead mounted | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  <table border="1" data-bbox="335 1803 654 1915"> <thead> <tr> <th>SIZE</th> <th>A</th> <th>B</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>H6BPR</td> <td>70</td> <td>96</td> <td>48</td> </tr> <tr> <td>H10BPR</td> <td>83</td> <td>110</td> <td>60</td> </tr> <tr> <td>H16BPR</td> <td>103</td> <td>130</td> <td>82</td> </tr> <tr> <td>H24BPR</td> <td>130</td> <td>156</td> <td>108</td> </tr> </tbody> </table> | | | SIZE | A | B | C | H6BPR | 70 | 96 | 48 | H10BPR | 83 | 110 | 60 | H16BPR | 103 | 130 | 82 | H24BPR | 130 | 156 | 108 | H6BPR H10BPR H16BPR H24BPR | | | H6BPR-AGC H10BPR-AGC H16BPR-AGC H24BPR-AGC | T 1 93 206 1000-000 T 1 93 210 1000-000 T 1 93 216 1000-000 T 1 93 224 1000-000 |
| | | | | SIZE | A | B | C | | | | | | | | | | | | | | | | | | | | | |
| | | | | H6BPR | 70 | 96 | 48 | | | | | | | | | | | | | | | | | | | | | |
| | | | | H10BPR | 83 | 110 | 60 | | | | | | | | | | | | | | | | | | | | | |
| | | | | H16BPR | 103 | 130 | 82 | | | | | | | | | | | | | | | | | | | | | |
| | | | | H24BPR | 130 | 156 | 108 | | | | | | | | | | | | | | | | | | | | | |
| Cover | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  | H24BPR | | | H24BPR-KDBP | T 1 99 024 0000-000 | | | | | | | | | | | | | | | | | | | | | | |

Tools and inserts and rail mounting elements



1. Specifications

DIN VDE 0110 Concerning clearance and clearance distances

DIN VDE 0627 Connectors and plug devices

2. Standards

DIN EN 60 664-1

DIN EN 61 984












3. Approvals



RoHS

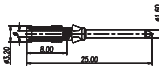

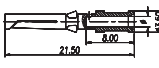

Tools and accessories

Crimping tools and remove tools

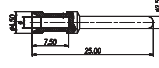



| | | | | | |
|---|---|---------------------|--|---|---------------------|
| <p>Crimp tool</p> <p>Wire range: 0.5-4.0mm² Suitable for CDM/CDF and CEM/CEF contacts</p> |  | | <p>Crimp tool</p> <p>Wire range: 4.0-10.0mm² Used for CMM/CMF contacts</p> |  | |
| Type | CRIMPBOX-0.5/4 | | Type | CRIMPBOX-4.0/10.0 | |
| Part Number | T 3 10 000 0001-000 | | Part Number | T 3 10 000 1001-000 | |
| <p>Crimp tool</p> <p>Wire range: 0.14-4.0mm² Suitable for CDM/CDF and CEM/CEF contacts with locator and die</p> |  | | <p>Remove tool</p> <p>Used for CDM/CDF contact series</p> |  | |
| Type | RSZ.HE-HN.D-HVT | | Type | REMOV-HD | |
| Part Number | 1-1105851-8 | | Part Number | T 3 10 000 0003-000 | |
| <p>Remove tool</p> <p>Used for CEM/CMF contact series</p> |  | | <p>Remove tool</p> <p>Used for 5A contacts (Ø1mm)</p> |  | |
| Type | 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 |
| <p>Remove tool</p> <p>Used for CMM/CMF contact series</p> |  | | | | |
| Type | REMOV-MM | | | | |
| Part Number | T 3 10 000 0013-000 | | | | |
| Axial screw tool and crimping tool | | | | | |
| <p>M3 screw driver</p> <p>Used for HA/HE inserts</p> |  | | <p>Tool</p> <p>Used for 100A inserts</p> |  | |
| Type | SCREWD-M3 | | Type | HEXA-D1 | |
| Part Number | T 3 10 000 0009-000 | | Part Number | T 3 10 000 0010-000 | |
| <p>Tool</p> <p>Used for 40A inserts</p> |  | | <p>Crimping tool</p> <p>Wire range: 10.0-120.0mm² Used for 200A contacts</p> |  | |
| Type | HEXA-D2 | | Type | 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 Contact resistance: $\leq 3m\Omega$ Terminal: crimp connection CDM/Male | 10A Male crimp contacts  | Wire gauge | | Strip- ping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|-----------------|-------|--------------------------|-------------------------------|---------------------|-----------------------------|---------------------|
| | | mm ² | AWG | | mm | Type | Part Number | Type | Part Number |
|  | | 0.14-0.37 | 26-22 | 8.0 | CDM-0.14 | T 2 02 000 1002-000 | DDM-0.14 | T 2 02 001 1002-000 |
| | | 0.5 | 20 | 8.0 | CDM-0.5 | T 2 02 000 1005-000 | DDM-0.5 | T 2 02 001 1005-000 |
| | | 0.75 | 18 | 8.0 | CDM-0.75 | T 2 02 000 1008-000 | DDM-0.75 | T 2 02 001 1008-000 |
| | | 1.0 | 18 | 8.0 | CDM-1.0 | T 2 02 000 1010-000 | DDM-1.0 | T 2 02 001 1010-000 |
| | | 1.5 | 16 | 8.0 | CDM-1.5 | T 2 02 000 1015-000 | DDM-1.5 | T 2 02 001 1015-000 |
| | | 2.5 | 14 | 6.0 | CDM-2.5 | T 2 02 000 1025-000 | DDM-2.5 | T 2 02 001 1025-000 |
| CDF/Female | 10A Female crimp contacts  | 0.14-0.37 | 26-22 | 8.0 | CDF-0.14 | T 2 02 000 2002-000 | DDF-0.14 | T 2 02 001 2002-000 |
| | | 0.5 | 20 | 8.0 | CDF-0.5 | T 2 02 000 2005-000 | DDF-0.5 | T 2 02 001 2005-000 |
|  | | 0.75 | 18 | 8.0 | CDF-0.75 | T 2 02 000 2008-000 | DDF-0.75 | T 2 02 001 2008-000 |
| | | 1.0 | 18 | 8.0 | CDF-1.0 | T 2 02 000 2010-000 | DDF-1.0 | T 2 02 001 2010-000 |
| | | 1.5 | 16 | 8.0 | CDF-1.5 | T 2 02 000 2015-000 | DDF-1.5 | T 2 02 001 2015-000 |
| | | 2.5 | 14 | 6.0 | CDF-2.5 | T 2 02 000 2025-000 | DDF-2.5 | T 2 02 001 2025-000 |

16A Contact


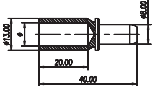

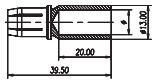
| Tech data Material: copper alloy Contact resistance: $\leq 1m\Omega$ Terminal: crimp connection CEM/Male | 16A Male crimp contacts  | Wire gauge | | Strip- ping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|-----------------|-------|--------------------------|-------------------------------|---------------------|-----------------------------|---------------------|
| | | mm ² | AWG | | mm | Type | Part Number | Type | Part Number |
|  | | 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 |
| | | 0.5 | 20 | 7.5 | CEM-0.5 | T 2 03 000 1005-000 | DEM-0.5 | T 2 03 001 1005-000 |
| | | 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 |
| | | 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 |
| CEF/Female | 16A Female 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 |
|  | | 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


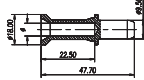

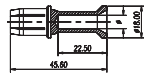
| Tech data Material: copper alloy Contact resistance: $\leq 0.3m\Omega$ Terminal: crimp connection CMM/Male  | 40A Male crimp contacts  | Wire gauge | | Stripping length | Crimp contacts, silver-plated | |
|--|--|-----------------|-----|------------------|-------------------------------|---------------------|
| | | mm ² | AWG | | mm | Type | Part Number |
| | | 1.5 | 16 | 8.0 | CMM-1.5 | T 2 04 000 1015-000 |
| | | 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 crimp contacts  | 1.5 | 16 | 8.0 | CMF-1.5 | T 2 04 000 2015-000 |
| | | 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 |
| | | 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: copper alloy Contact resistance: $\leq 1m\Omega$ Terminal: crimp connection CDM/Male  | 100A Male crimp contacts  | Wire gauge | Ø | Stripping length | Crimp contacts, silver-plated | |
|--|---|-----------------|-----|------------------|-------------------------------|---------------------|
| | | mm ² | | | mm | Type | Part Number |
| | | 10 | 4.3 | 19 | CNM-10 | T 2 05 000 1010-000 |
| | | 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 |
| | | 35 | 8.2 | 16 | CNF-35 | T 2 05 000 2035-000 |

Crimp contacts

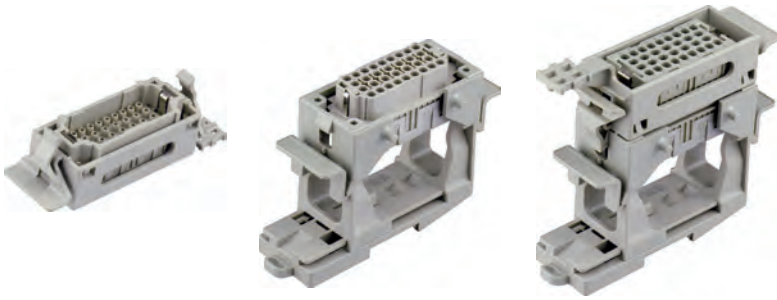
200A Contact

| | | | | | | |
|---|--|-----------------------|----------|-------------------------|--------------------------------------|---------------------|
| Tech data Material: copper Contact resistance: $\leq 0.3\text{m}\Omega$ Terminal: crimp connection CHM/Male  | 200A Male crimp contacts  | Wire gauge | Ø | Stripping length | Crimp contacts, silver-plated | |
| | | mm² | | mm | Type | Part Number |
| | | 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 |
| | | 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 |
| | | 35 | 8.2 | 22.5 | CHF-35 | T 2 06 000 2035-000 |
| | | 50 | 10.0 | 22.5 | CHF-50 | T 2 06 000 2050-000 |
| | | 70 | 11.5 | 22.5 | CHF-70 | T 2 06 000 2070-000 |

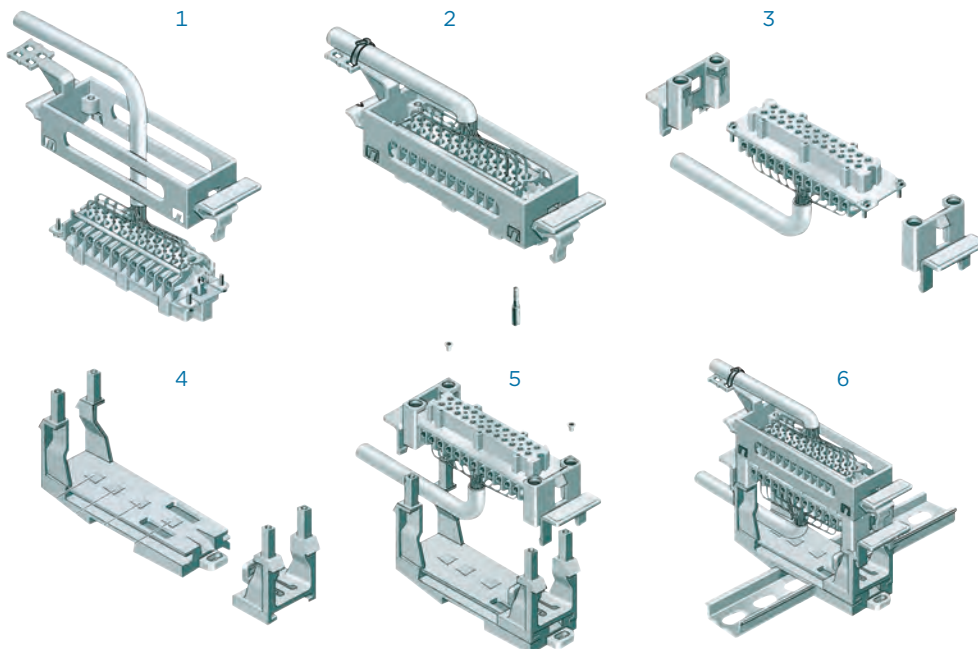
PCB Adapter

| | | | |
|---|---------------------|--|---------------------|
|  | |  | |
| Type | PCB-adapter-EE | Type | CEF-adapter |
| Part Number | T 2 04 000 0000-000 | Part Number | T 2 03 000 2000-000 |

Insert mounting element


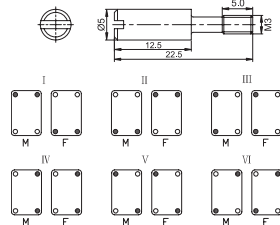

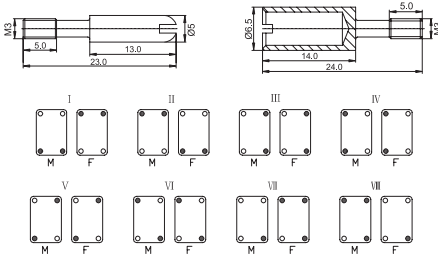

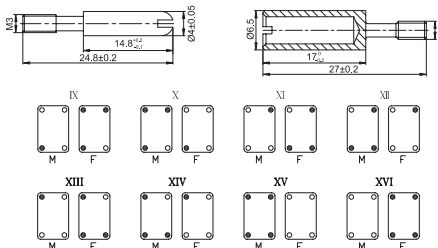


| Set | Parts order | Type | Part Number | |
|--------------------------------------|-------------|------|---------------|---------------------|
| Insert mounting with carrier element | | | | |
| | H6B set | Top | H6B-Rail-top | T 1 87 006 2101-000 |
| | | Base | HB-Rail-base | T 1 87 000 2201-000 |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


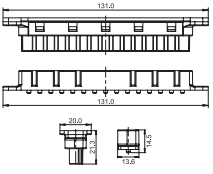
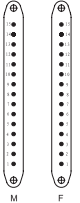

| Coding of hoods/housings and inserts | Type | Part Number | |
|---|---|---|---|
| <p>Standard code pin (Stainless steel)</p>  |  | <p>Ordinary type CODING-PIN-M3-TM CODING-PIN-M3-TF</p> <p>Stainless steel CODING-PIN-M3-STM CODING-PIN-M3-STF</p> | <p>Ordinary type T 0 93 100 0423-000 T 0 93 100 6524-000</p> <p>Stainless steel T 0 93 200 0423-000 T 0 93 200 6524-000</p> |
| <p>Guiding pins (Stainless steel)</p>  |  | <p>Ordinary type King-size CODING-PIN-M3-LTM CODING-PIN-M3-LTF</p> <p>Stainless steel, King-size CODING-PIN-M3-LSTM CODING-PIN-M3-LSTF</p> | <p>Ordinary type King-size T 0 93 100 0425-000 T 0 93 100 6527-000</p> <p>Stainless steel, King-size T 0 93 110 0425-000 T 0 93 110 6527-000</p> |
| <p>Guiding pins (screw thread extended)</p>  |  | <p>Ordinary type (screw thread extended) CODING-PIN-M3-LTM CODING-PIN-M3-LTF</p> <p>Stainless steel (screw thread extended) CODING-PIN-M3-STM CODING-PIN-M3-STF</p> | <p>Ordinary type (screw thread extended) T 0 93 110 0425-000 T 0 93 110 6527-000</p> <p>Ordinary type (screw thread extended) T 0 93 110 0423-000 T 0 93 110 6524-000</p> |

HEE-015 insert

INSERTS MOUNTING WITHOUT HOOD/HOUSING

200V MAX. 16A

15+ 


| Dimensions (mm) | Type | Part Number | |
|--|--|-------------|---------------------|
| | | Male insert | Female insert |
| Crimp terminal (Order crimp contacts separately) | | | |
|  |  | HEE-015-M | T 2 08 015 2101-000 |
| | | 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 | | |
|  |  | | |

Order crimp contacts separately

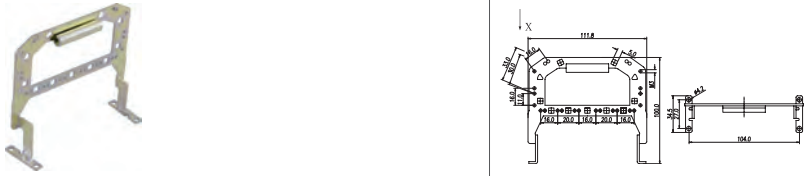



Female contact type: CSF-1.5

Female contact p/n: T0080002015-010

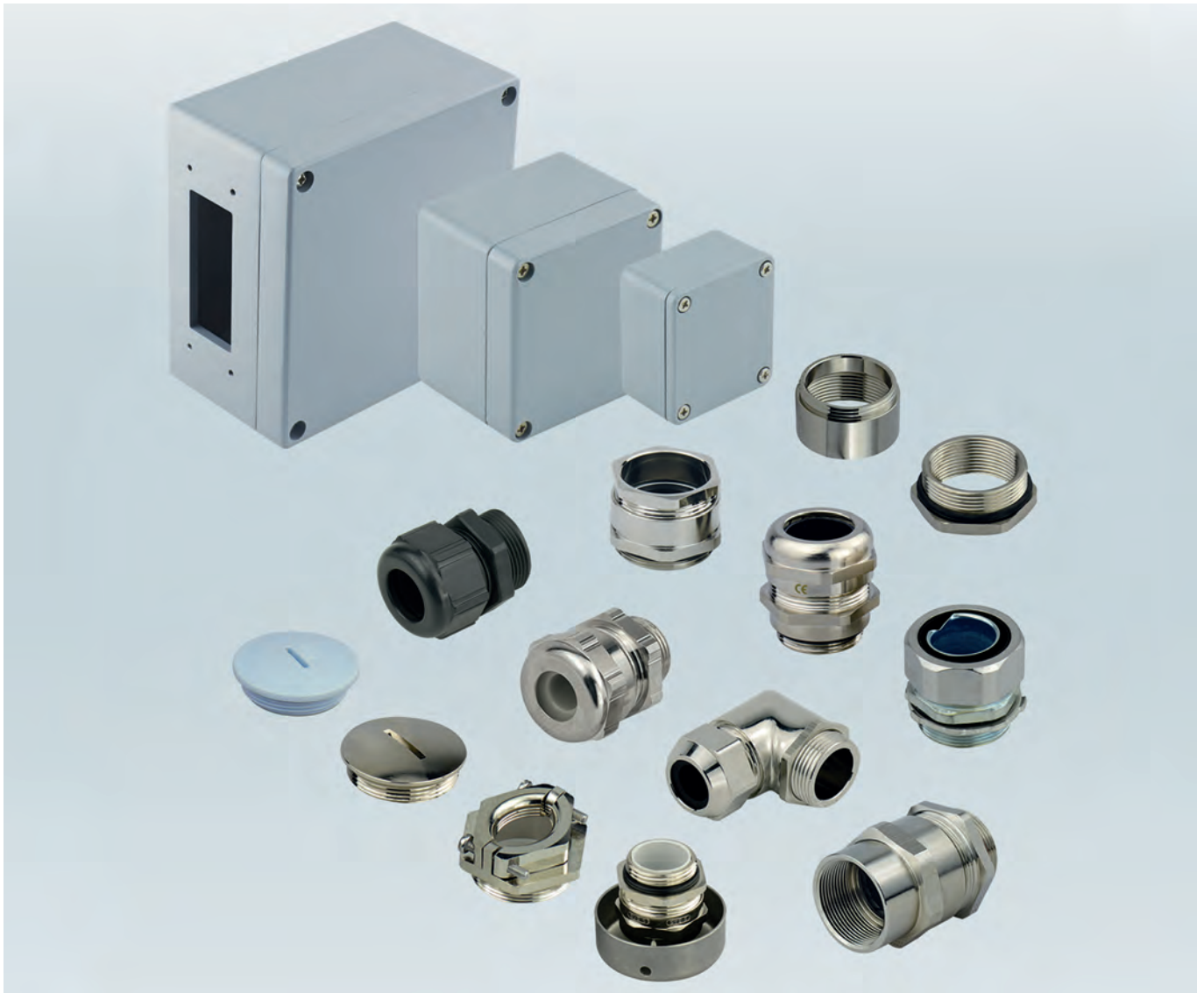
Other connectors

| | | Designation | Type | Part Number |
|---|---|--|------------------------|--|
| 3-poles connector Rated: 25A, 500V Contact surface: Silver plated Flammability acc. to UL94: V0 Terminal: Screw terminal |  | 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 |

Installation elements

| Grip frame, screw adapter and screw | Type | Part Number |
|--|---------------------------------|---|
| <p>H24B grip frame (further variants are available on request)</p>  | HB-SB-024 | T 3 40 312 1350-000 |
| <p>Screw adapter and screw</p>  | <p>HB-GDZ-S</p> <p>HB-GDZ-X</p> | <p>T 3 40 312 1000-000</p> <p>T 3 40 312 2000-000</p> |
| <p>M5 Screw</p>  | FIX-M5 | T 0 93 240 6003-000 |
| <p>Extend earth terminal</p>  | 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




RoHS


Cable fittings and accessories

Cross reference from PG thread to metric thread


| PG | M |
|--------|-----|
| PG11 | M20 |
| PG13.5 | |
| PG16 | M25 |
| PG21 | M32 |
| PG29 | M40 |
| PG36 | |
| PG42 | M50 |


| | Metr. | PG | Clamp range (mm) | Type | Part Number | |
|--|-----------|--------|------------------|-------------------------|--|---|
| Cable glands, brass nicked plated | | | | | | |
|  <p>Material: Nickel plated brass Press seal material: PA Seal material: NBR Temperature range: -40°C ~ +100°C Protection: IP68</p> | | 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 | |
| | | PG21 | 9-16 13-18 | DLX-21-MTS DLX-21-MS | T 3 609 2101 11-000 T 3 609 2101 01-000 | |
| | | PG29 | 13-20 18-25 | DLX-29-MTS DLX-29-MS | T 3 609 2901 11-000 T 3 609 2901 01-000 | |
| | | 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 |

Cable fittings and accessories

| | Metr. | PG | Clamp range (mm) | Type | Part Number | |
|---|-------|-----------|------------------|-----------------------|--|--|
| Cable glands, polyamide | | | | | | |
|  <p> Material: Polyamide Press seal material: PA Seal material: NBR Temperature range: -40°C ~ +100°C Protection: IP68 </p> | | 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 | |
| | | PG21 | 9-16 13-18 | DLX-21-PT DLX-21-P | T 3 209 2101 61-000 T 3 209 2101 60-000 | |
| | | PG29 | 13-20 18-25 | DLX-29-PT DLX-29-P | T 3 209 2901 61-000 T 3 209 2901 60-000 | |
| | | 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 |

Cable fittings and accessories



| | Metr. | PG | Clamp range (mm) | Type | Part Number | |
|---|-----------|-----------|------------------|-------------|---------------------|---------------------|
| Multiple sealing insert metal cable gland | | | | | | |
|  <p>Material: Nickel plated brass Seal material: TPE/EPDM Temperature range: -40°C ~ + 100°C Protection: IP65 Seal material colors: White (other colors need consulting)</p> | | PG13.5 | 2 x 3 | DLX-13-KMS | T 3 729 1301 01-000 | |
| | | PG16 | 3 x 4 | DLX-16-KMS | T 3 729 1601 01-000 | |
| | | PG16 | 2 x 5 | DLX-16-KMS | T 3 729 1602 01-000 | |
| | | PG21 | 4 x 6.5 | DLX-21-1KMS | T 3 729 2101 01-000 | |
| | | PG21 | 3 x 7 | DLX-21-2KMS | T 3 729 2102 01-000 | |
| | | PG21 | 2 x 6 | DLX-21-3KMS | T 3 729 2103 01-000 | |
| | | PG21 | 2 x 8 | DLX-21-4KMS | T 3 729 2104 01-000 | |
| | | PG29 | 6 x 6.5 | DLX-29-1KMS | T 3 729 2901 01-000 | |
| | | PG29 | 4 x 9 | DLX-29-2KMS | T 3 729 2902 01-000 | |
| | | PG29 | 3 x 9 | DLX-29-3KMS | T 3 729 2903 01-000 | |
| | | PG36 | 5 x 9 | DLX-36-1KMS | T 3 729 3601 01-000 | |
| | | PG36 | 6 x 8 | DLX-36-2KMS | T 3 729 3602 01-000 | |
| | | PG42 | 4 x 12 | DLX-42-1KMS | T 3 729 4201 01-000 | |
| | | PG42 | 5 x 10 | DLX-42-2KMS | T 3 729 4202 01-000 | |
| | | PG48 | 6 x 12 | DLX-48-1KMS | T 3 729 4801 01-000 | |
| | | PG48 | 3 x 18 | DLX-48-2KMS | T 3 729 4802 01-000 | |
| | | M16 X 1.5 | | 2 x 3 | DLX-16-KM | T 3 729 1601 02-000 |
| | | M20 X 1.5 | | 3 x 4 | DLX-20-KM | T 3 729 2001 02-000 |
| | | M20 X 1.5 | | 2 x 5 | DLX-20-KM | T 3 729 2002 02-000 |
| | | M25 X 1.5 | | 4 x 6.5 | DLX-25-1KM | T 3 729 2501 02-000 |
| | | M25 X 1.5 | | 3 x 7 | DLX-25-2KM | T 3 729 2502 02-000 |
| | | M25 X 1.5 | | 2 x 6 | DLX-25-3KM | T 3 729 2503 02-000 |
| | | M25 X 1.5 | | 2 x 8 | DLX-25-4KM | T 3 729 2504 02-000 |
| | | M32 X 1.5 | | 6 x 6.5 | DLX-32-1KM | T 3 729 3201 02-000 |
| | | M32 X 1.5 | | 4 x 9 | DLX-32-2KM | T 3 729 3202 02-000 |
| | | M32 X 1.5 | | 3 x 9 | DLX-32-3KM | T 3 729 3203 02-000 |
| | | M40 X 1.5 | | 5 x 9 | DLX-40-1KM | T 3 729 4001 02-000 |
| | | M40 X 1.5 | | 6 x 8 | DLX-40-2KM | T 3 729 4002 02-000 |
| | | M50 X 1.5 | | 4 x 12 | DLX-50-1KM | T 3 729 5001 02-000 |
| | | M50 X 1.5 | | 5 x 10 | DLX-50-2KM | T 3 729 5002 02-000 |
| | M63 X 1.5 | | 6 x 12 | DLX-63-1KM | T 3 729 6301 02-000 | |
| | M63 X 1.5 | | 3 x 18 | DLX-63-2KM | T 3 729 6302 02-000 | |

| | | | | | | |
|--|-----------|-----------|---------|--------------|---------------------|---------------------|
| Multiple sealing insert nylon cable gland | | | | | | |
|  <p>Material: PA Seal material: EPDM Temperature range: -40°C ~ + 100°C Protection: IP65 Seal material colors: White (other colors need consulting)</p> | | PG13.5 | 2 x 3 | DLX-13-KPMS | T 3 229 1301 01-000 | |
| | | PG16 | 3 x 4 | DLX-16-KPMS | T 3 229 1601 01-000 | |
| | | PG16 | 2 x 5 | DLX-16-KPMS | T 3 229 1602 01-000 | |
| | | PG21 | 4 x 6.5 | DLX-21-1KPMS | T 3 229 2101 01-000 | |
| | | PG21 | 3 x 7 | DLX-21-2KPMS | T 3 229 2102 01-000 | |
| | | PG21 | 2 x 6 | DLX-21-3KPMS | T 3 229 2103 01-000 | |
| | | PG21 | 2 x 8 | DLX-21-4KPMS | T 3 229 2104 01-000 | |
| | | PG29 | 6 x 6.5 | DLX-29-1KPMS | T 3 229 2901 01-000 | |
| | | PG29 | 4 x 9 | DLX-29-2KPMS | T 3 229 2902 01-000 | |
| | | PG29 | 3 x 9 | DLX-29-3KPMS | T 3 229 2903 01-000 | |
| | | PG36 | 5 x 9 | DLX-36-1KPMS | T 3 229 3601 01-000 | |
| | | PG36 | 6 x 8 | DLX-36-2KPMS | T 3 229 3602 01-000 | |
| | | PG42 | 4 x 12 | DLX-42-1KPMS | T 3 229 4201 01-000 | |
| | | PG42 | 5 x 10 | DLX-42-2KPMS | T 3 229 4202 01-000 | |
| | | PG48 | 6 x 12 | DLX-48-1KPMS | T 3 229 4801 01-000 | |
| | | PG48 | 3 x 18 | DLX-48-2KPMS | T 3 229 4802 01-000 | |
| | | M16 X 1.5 | | 2 x 3 | DLX-16-KPM | T 3 229 1601 02-000 |
| | | M20 X 1.5 | | 3 x 4 | DLX-20-KPM | T 3 229 2001 02-000 |
| | | M20 X 1.5 | | 2 x 5 | DLX-20-KPM | T 3 229 2002 02-000 |
| | | M25 X 1.5 | | 4 x 6.5 | DLX-25-1KPM | T 3 229 2501 02-000 |
| | | M25 X 1.5 | | 3 x 7 | DLX-25-2KPM | T 3 229 2502 02-000 |
| | | M25 X 1.5 | | 2 x 6 | DLX-25-3KPM | T 3 229 2503 02-000 |
| | | M25 X 1.5 | | 2 x 8 | DLX-25-4KPM | T 3 229 2504 02-000 |
| | | M32 X 1.5 | | 6 x 6.5 | DLX-32-1KPM | T 3 229 3201 02-000 |
| | | M32 X 1.5 | | 4 x 9 | DLX-32-2KPM | T 3 229 3202 02-000 |
| | | M32 X 1.5 | | 3 x 9 | DLX-32-3KPM | T 3 229 3203 02-000 |
| | | M40 X 1.5 | | 5 x 9 | DLX-40-1KPM | T 3 229 4001 02-000 |
| | | M40 X 1.5 | | 6 x 8 | DLX-40-2KPM | T 3 229 4002 02-000 |
| | | M50 X 1.5 | | 4 x 12 | DLX-50-1KPM | T 3 229 5001 02-000 |
| | | M50 X 1.5 | | 5 x 10 | DLX-50-2KPM | T 3 229 5002 02-000 |
| | M63 X 1.5 | | 6 x 12 | DLX-63-1KPM | T 3 229 6301 02-000 | |
| | M63 X 1.5 | | 3 x 18 | DLX-63-2KPM | T 3 229 6302 02-000 | |



Cable fittings and accessories

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



Cable fittings and accessories

| | Metr. | PG | Clamp range (mm) | Type | Part Number |
|---|-------|--------|------------------|---------------------|---------------------|
| Metal glands with multiple seal | | | | | |
|  <p>Material: Nickel plated brass Seal material: NBR Temperature range: -40°C ~ +100°C Protection: IP65</p> | | 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 |
| | | PG42 | 30-39 | DSM-42 | T 3 201 4201 01-000 |
| | | PG48 | 36-45 | DSM-48 | T 3 201 4801 01-000 |
| | M12 | | 5-10 | DSM-12-M | T 3 201 1201 02-000 |
| | M16 | | 6.5-10 | DSM-16-M | T 3 201 1601 02-000 |
| | 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 | | | | | |
|  <p>Material: Nickel plated brass Seal material: NBR Temperature range: -40°C ~ +100°C Protection: IP54</p> | | 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 |
| | | 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 |
| | | PG42 | 39-41 | DSM-42-S | T 3 211 4201 01-000 |
| | | PG48 | 45-47 | DSM-48-S | T 3 211 4801 01-000 |
| | M12 | | 5-7 | DSM-12-SM | T 3 211 1201 02-000 |
| | M16 | | 8-10 | DSM-16-SM | T 3 211 1601 02-000 |
| | 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 | |


Cable fittings and accessories

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

Cable fittings and accessories

| | Metr. | PG | Clamp range (mm) | Type | Part Number | |
|---|-------|--------|------------------|----------|---------------------|---------------------|
| Multiple seal | | | | | | |
|  <p>Seal material: NBR Temperature range: -40°C - +100°C Protection: IP65</p> | | 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 | |
| | | PG42 | 30-39 | MSL-42 | T 3 100 4200 01-000 | |
| | | PG48 | 36-45 | MSL-48 | T 3 100 4800 01-000 | |
| | 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 | | | | | | |
|  <p>Seal material: NBR Temperature range: -40°C - +100°C Protection: IP54</p> | | 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 | |
| | | PG42 | 39-41 | SGL-42 | T 0 910 0041 42-000 | |
| | | PG48 | 45-47 | SGL-48 | T 0 910 0041 48-000 | |
| | 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 |

Cable fittings and accessories

| | Metr. | PG | Clamp range (mm) | Type | Part Number |
|--|-------|--------|------------------|---------------------|---------------------|
| Metal clamp glands with multiple seal | | | | | |
|  <p>Material: Nickel plated brass Seal material: NBR Temperature range: -40°C ~ +100°C Protection: IP65</p> | | PG9 | 6.5-10 | ZSM-9 | T 3 135 0901 01-000 |
| | | PG11 | 7.5-12 | ZSM-11 | T 3 135 1101 01-000 |
| | | PG13.5 | 8.5-13.5 | ZSM-13 | T 3 135 1301 01-000 |
| | | PG16 | 10.5-16 | ZSM-16 | T 3 135 1601 01-000 |
| | | PG21 | 13-20 | ZSM-21 | T 3 135 2101 01-000 |
| | | PG29 | 19-28 | ZSM-29 | T 3 135 2901 01-000 |
| | | PG36 | 24-34 | ZSM-36 | T 3 135 3601 01-000 |
| | | PG42 | 34-40 | ZSM-42 | T 3 135 4201 01-000 |
| | | PG48 | 39-46 | ZSM-48 | T 3 135 4801 01-000 |
| | M16 | | 6.5-10 | ZSM-16-M | T 3 135 1601 21-000 |
| | M20 | | 7.5-12 | ZSM-20-M | T 3 135 2001 21-000 |
| | M25 | | 13-20 | ZSM-25-M | T 3 135 2501 21-000 |
| | M32 | | 19-28 | ZSM-32-M | T 3 135 3201 21-000 |
| | M40 | | 24-34 | ZSM-40-M | T 3 135 4001 21-000 |
| M50 | | 34-40 | ZSM-50-M | T 3 135 5001 21-000 | |
| M63 | | 39-46 | ZSM-63-M | T 3 135 6301 21-000 | |
| Metal clamp glands with normal seal | | | | | |
|  <p>Material: Nickel plated brass Seal material: NBR Temperature range: -40°C ~ +100°C Protection: IP54</p> | | PG7 | 6-8 | ZSM-7-S | T 3 115 0701 01-000 |
| | | PG9 | 8-10 | ZSM-9-S | T 3 115 0901 01-000 |
| | | PG11 | 10-12 | ZSM-11-S | T 3 115 1101 01-000 |
| | | PG13.5 | 12-14 | ZSM-13-S | T 3 115 1301 01-000 |
| | | PG16 | 14-16 | ZSM-16-S | T 3 115 1601 01-000 |
| | | PG21 | 17-19 | ZSM-21-S | T 3 115 2101 01-000 |
| | | PG29 | 26-28 | ZSM-29-S | T 3 115 2901 01-000 |
| | | PG36 | 33-35 | ZSM-36-S | T 3 115 3601 01-000 |
| | | PG42 | 39-41 | ZSM-42-S | T 3 115 4201 01-000 |
| | | PG48 | 43-45 | ZSM-48-S | T 3 115 4801 01-000 |
| | M12 | | 6-8 | ZSM-12-SM | T 3 115 1201 21-000 |
| | M16 | | 8-12 | ZSM-16-SM | T 3 115 1601 21-000 |
| | M20 | | 10-12 | ZSM-20-SM | T 3 115 2001 21-000 |
| | M25 | | 12-14 | ZSM-25-SM | T 3 115 2501 21-000 |
| | M32 | | 17-19 | ZSM-32-SM | T 3 115 3201 21-000 |
| | M40 | | 25-27 | ZSM-40-SM | T 3 115 4001 21-000 |
| | M50 | | 39-41 | ZSM-50-SM | T 3 115 5001 21-000 |
| | M63 | | 43-45 | ZSM-63-SM | T 3 115 6301 21-000 |



Cable fittings and accessories

| | Metr. | PG | Clamp range (mm) | Type | Part Number | |
|--|---|--------|------------------|------------|---------------------|---------------------|
| Metal clamp glands | | | | | | |
|  <p>Material: Nickel plated brass Temperature range: -40°C ~ +100°C</p> | | 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 | |
| | | PG13.5 | 8.5-14 | KSM-13-MS | T 3 105 1301 01-000 | |
| | | PG16 | 9.5-16 | KSM-16-MS | T 3 105 1601 01-000 | |
| | | 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 | |
| | M12 | | | 5-7.5 | KSM-12-M | T 3 105 1201 21-000 |
| | M16 | | | 7-10 | KSM-16-M | T 3 105 1601 21-000 |
| | 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 | | | | | |
| |  <p>Material: Zinc alloy Seal material: PA Temperature range: -40°C ~ +100°C Protection: IP40-IP65</p> | | 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 | |
| | | PG29 | Ø25 | NTC-29-MS | T 3 510 2901 14-000 | |
| | | PG36 | Ø32 | NTC-36-MS | T 3 510 3601 14-000 | |
| | | PG42 | Ø38 | NTC-42-MS | T 3 510 4201 14-000 | |
| | | PG48 | Ø51 | NTC-48-MS | T 3 510 4801 14-000 | |
| 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 02-000 |
| 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 02-000 |
| M40 X 1.5 | | | | Ø32 | NTC-40-M | T 3 510 4001 02-000 |
| M50 X 1.5 | | | Ø38 | NTC-50-M | T 3 510 5001 02-000 | |
| M63 X 1.5 | | | Ø51 | NTC-63-M | T 3 510 6301 02-000 | |


Cable fittings and accessories

| | Metr. | PG | Clamp range (mm) | Type | Part Number | |
|--|-----------|-----------|------------------|-----------|---------------------|---------------------|
| Nylon flexible tube fittings | | | | | | |
|  <p>Material: PA Temperature range: -40°C ~ +100°C Protection: IP65</p> | | 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 |
| | | | 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 |
| | | M10 X 1.5 | | AD 10.0 | NTC-10-PM | T 3 511 1006 02-000 |
| | | M12 X 1.5 | | AD 10.0 | NTC-12-PMT | T 3 511 1207 02-000 |
| | | 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 | | | | | | |
|  <p>Material: PA Temperature range: -20°C ~ +70°C Protection: IP65</p> | | PG9 | | DN-9-P | T 3 169 0901 01-000 | |
| | | | PG11 | | DN-11-P | T 3 169 1101 01-000 |
| | | | 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 |
| | | | PG48 | | DN-48-P | T 3 169 4801 01-000 |
| | | M12 | | 5-7.5 | DN-12-PM | T 3 169 1201 21-000 |
| | | M16 | | 7-10 | DN-16-PM | T 3 169 1601 11-000 |
| | | M20 | | 10-14 | DN-20-PM | T 3 169 2001 11-000 |
| | | 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 | |



Cable fittings and accessories

| | Metr. | PG | Type | Part Number | |
|--|-----------|-----|-------------|---------------------|---------------------|
| Metal blind plugs | | | | | |
|  <p>Material: Nickel plated brass Temperature range: -40°C ~ +100°C Protection: IP65</p> | | 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 |
| | | | PG36 | BLIND-36-MS | T 3 165 3601 01-000 |
| | | | PG42 | BLIND-42-MS | T 3 165 4201 01-000 |
| | | | PG48 | BLIND-48-MS | T 3 165 4801 01-000 |
| | 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 | | | | | |
|  <p>Material: PA Temperature range: -40°C ~ +100°C Protection: IP65</p> | | 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 |
| | | | PG36 | BLIND-36-P | T 3 166 3601 01-000 |
| | | | PG42 | BLIND-42-P | T 3 166 4201 01-000 |
| | | | 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 | |


Cable fittings and accessories

| | Metr. | PG | Type | Part Number | |
|--|-----------|-----|-------------|---------------------|---------------------|
| Metal blind plugs | | | | | |
|  <p>Material: Nickel plated brass Temperature range: -40°C ~ +100°C Protection: IP65</p> | | PG7 | BLIND-7-HMS | T 3 165 0702 01-000 | |
| | | | PG9 | BLIND-9-HMS | T 3 165 0902 01-000 |
| | | | PG11 | BLIND-11-HMS | T 3 165 1102 01-000 |
| | | | PG13.5 | BLIND-13-HMS | T 3 165 1302 01-000 |
| | | | PG16 | BLIND-16-HMS | T 3 165 1602 01-000 |
| | | | PG21 | BLIND-21-HMS | T 3 165 2102 01-000 |
| | | | PG29 | BLIND-29-HMS | T 3 165 2902 01-000 |
| | | | PG36 | BLIND-36-HMS | T 3 165 3602 01-000 |
| | | | PG42 | BLIND-42-HMS | T 3 165 4202 01-000 |
| | | | PG48 | BLIND-48-HMS | T 3 165 4802 01-000 |
| | M12 X 1.5 | | | BLIND-12-HM | T 3 165 1202 11-000 |
| | M16 X 1.5 | | | BLIND-16-HM | T 3 165 1602 11-000 |
| | M20 X 1.5 | | | BLIND-20-HM | T 3 165 2002 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 | | | BLIND-50-HM | T 3 165 5002 11-000 | |
| M63 X 1.5 | | | BLIND-63-HM | T 3 165 6302 11-000 | |


Cable fittings and accessories

| | Metr. | PG | Type | Part Number | |
|--|-----------|-----|----------|---------------------|---------------------|
| Metal lock units | | | | | |
|  <p>Material: Nickel plated brass Temperature range: -40°C ~ +100°C</p> | | PG7 | LN-7-MS | T 3 161 0700 01-000 | |
| | | | PG9 | LN-9-MS | T 3 161 0900 01-000 |
| | | | PG11 | LN-11-MS | T 3 161 1100 01-000 |
| | | | PG13.5 | LN-13-MS | T 3 161 1300 01-000 |
| | | | PG16 | LN-16-MS | T 3 161 1600 01-000 |
| | | | PG21 | LN-21-MS | T 3 161 2100 01-000 |
| | | | PG29 | LN-29-MS | T 3 161 2900 01-000 |
| | | | PG36 | LN-36-MS | T 3 161 3600 01-000 |
| | | | PG42 | LN-42-MS | T 3 161 4200 01-000 |
| | | | 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 | | | | | |
|  <p>Material: PA Temperature range: -40°C ~ +100°C</p> | | PG7 | LN-7-P | T 3 262 0700 01-000 | |
| | | | PG9 | LN-9-P | T 3 262 0900 01-000 |
| | | | PG11 | LN-11-P | T 3 262 1100 01-000 |
| | | | PG13.5 | LN-13-P | T 3 262 1300 01-000 |
| | | | PG16 | LN-16-P | T 3 262 1600 01-000 |
| | | | PG21 | LN-21-P | T 3 262 2100 01-000 |
| | | | PG29 | LN-29-P | T 3 262 2900 01-000 |
| | | | PG36 | LN-36-P | T 3 262 3600 01-000 |
| | | | PG42 | LN-42-P | T 3 262 4200 01-000 |
| | | | 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 | |


Cable fittings and accessories

| | Metr. | PG | Type | Part Number |
|--|--|---|---|--|
| Metal increasers | | | | |
|  <p>Material: Nickel plated brass Temperature range: -40°C ~ +100°C</p> | M16-M20 M20-M25 M25-M32 M32-M40 M40-M50 M50-M63 | PG7-PG9 PG9-PG11 PG11-PG13.5 PG11-PG16 PG13.5-PG16 PG13.5-PG21 PG16-PG21 PG21-PG29 PG29-PG36 PG36-PG42 | INCR-7/9-PG INCR-9/11-PG INCR-11/13-PG INCR-11/16-PG INCR-13/16-PG INCR-13/21-PG INCR-16/21-PG INCR-21/29-PG INCR-29/36-PG INCR-36/42-PG INCR-16/20-M INCR-20/25-M INCR-25/32-M INCR-32/40-M INCR-40/50-M INCR-50/63-M | T 3 033 0709 01-000 T 3 033 0911 01-000 T 3 033 1113 01-000 T 3 033 1116 01-000 T 3 033 1316 01-000 T 3 033 1321 01-000 T 3 033 1621 01-000 T 3 033 2129 01-000 T 3 033 2936 01-000 T 3 033 3642 01-000 T 3 033 1620 50-000 T 3 033 2025 50-000 T 3 033 2532 50-000 T 3 033 3240 50-000 T 3 033 4050 50-000 T 3 033 5063 50-000 |
| | | Metal reducers | | |
|  <p>Material: Nickel plated brass Temperature range: -40°C ~ +100°C</p> | M16-M12 M20-M12 M20-M16 M25-M20 M32-M20 M32-M25 M40-M25 M40-M32 M50-M32 M50-M40 M63-M40 M63-M50 | PG9-PG7 PG11-PG7 PG13.5-PG9 PG13.5-PG11 PG16-PG9 PG16-PG11 PG16-PG13.5 PG21-PG11 PG21-PG13.5 PG21-PG16 PG29-PG16 PG29-PG21 PG36-PG21 PG36-PG29 PG42-PG29 PG42-PG36 PG48-PG36 PG48-PG42 | REDU-9/7-PG REDU-11/7-PG REDU-13/9-PG REDU-13/11-PG REDU-16/9-PG REDU-16/11-PG REDU-16/13-PG REDU-21/11-PG REDU-21/13-PG REDU-21/16-PG REDU-29/16-PG REDU-29/21-PG REDU-36/21-PG REDU-36/29-PG REDU-42/29-PG REDU-42/36-PG REDU-48/36-PG REDU-48/42-PG REDU-16/12-M REDU-20/12-M REDU-20/16-M REDU-25/20-M REDU-32/20-M REDU-32/25-M REDU-40/25-M REDU-40/32-M REDU-50/32-M REDU-50/40-M REDU-63/40-M REDU-63/50-M | T 3 071 0907 01-000 T 3 071 1107 01-000 T 3 071 1309 01-000 T 3 071 1311 01-000 T 3 071 1609 01-000 T 3 071 1611 01-000 T 3 071 1613 01-000 T 3 071 2111 01-000 T 3 071 2113 01-000 T 3 071 2116 01-000 T 3 071 2916 01-000 T 3 071 2921 01-000 T 3 071 3621 01-000 T 3 071 3629 01-000 T 3 071 4229 01-000 T 3 071 4236 01-000 T 3 071 4836 01-000 T 3 071 4842 01-000 T 3 071 1612 50-000 T 3 071 2012 50-000 T 3 071 2016 50-000 T 3 071 2520 50-000 T 3 071 3220 50-000 T 3 071 3225 50-000 T 3 071 4025 50-000 T 3 071 4032 50-000 T 3 071 5032 50-000 T 3 071 5040 50-000 T 3 071 6340 50-000 T 3 071 6350 50-000 |

Cable fittings and accessories

| | | | Type | Dimension | Part Number |
|---|--------------------|---------------------|-------|-----------|---------------------|
| Cable clamper | | | | | |
|  <p>Material: Metal Protection: IP65</p> | | | BK 14 | 12-14 | T 1 918 1214 00-000 |
| | | | BK 18 | 14-18 | T 1 918 1218 00-000 |
| | | | BK 22 | 18-22 | T 1 922 1822 00-000 |
| | | | BK 26 | 22-26 | T 1 926 2226 00-000 |
| | | | BK 32 | 26-32 | T 1 932 2632 00-000 |
| | | | BK 34 | 30-34 | T 1 934 3034 00-000 |
| | | | BK 38 | 34-38 | T 1 912 0638 00-000 |
| | | | BK 42 | 38-42 | T 1 942 3842 00-000 |
| | | | BK 48 | 42-48 | T 1 912 0648 00-000 |
| | | | 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 |
| | | | BK 70 | 64-70 | T 1 970 6670 00-000 |
| C-Type rail | T 19 0000 0000-000 | rail adaptor system | | | |



| | | | | | |
|---------------------------|---|---------------------|---------|---------------------|--|
| Cable clamper | | | | | |
| Direct installation yokes |  | SKT3-8SC | 3-8 | T 3 9200 308 01-000 | |
| | | 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 | |
| Direct rail mounting |  | SKTP3-8SC | 3-8 | T 3 9300 308 01-000 | |
| | | SKTP4-13SC | 4-13.5 | T 3 9300 413 01-000 | |
| | | SKTP10-20SC | 10-20 | T 3 9301 020 01-000 | |
| Mounting rails |  | SKTP15-32SC | 15-32 | T 3 9301 532 01-000 | |
| | | SKT2-6 | 2-6 | T 3 9100 206 01-000 | |
| | | SKT3-8 | 3-8 | T 3 9100 308 01-000 | |
| Quick installation yokes |  | SKT4-13.5 | 4-13.5 | T 3 9100 413 01-000 | |
| | | SKT10-20 | 10-20 | T 3 9101 020 01-000 | |
| | | SKT15-32 | 15-32 | T 3 9101 532 01-000 | |
| | | QSKT 1-6 | 1.5-6.5 | T 3 9300 106 00-000 | |
| | | QSKT 5-11 | 5-11 | T 3 9300 511 00-000 | |
| QSKT 10-17 | 10-17 | T 3 9301 017 00-000 | | | |

| | | Type | Dimension | Type | Part Number |
|--|--|--------|-----------|---------|---------------------|
| Clips | | | | | |
|  <p>Material: Stainless steel Temperature range: -40°C ~ +105°C</p> | | AD10 | 10 | Clip-06 | T 3 310 0100 00-000 |
| | | 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 |
| | | AD54.5 | 54 | Clip-48 | T 3 310 0540 00-000 |
| | | AD80 | 79 | Clip-70 | T 3 310 0790 00-000 |
| | | AD106 | 105 | Clip-95 | T 3 310 1050 00-000 |

Cable fittings and accessories

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

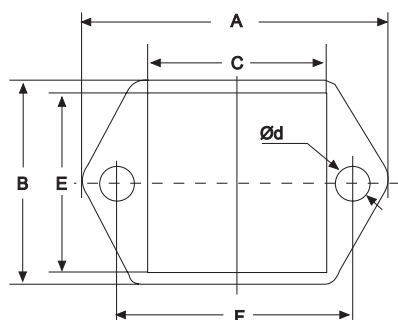
Cable fittings and accessories

| | Metr. | PG | Clamp range | Type | Part Number | |
|---|-----------|-----------|-------------|-----------|---------------------|---------------------|
| Metal cable gland | | | | | | |
|  <p>Material: Nickel plated brass Seal material: NBR Temperature range: -30°C ~ +100°C Protection: IP55</p> | | PG7 | 6-8 | VSM-7-MS | T 3 105 0701 01-000 | |
| | | | 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 |
| | | | 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 |
| | | M12 X 1.5 | | 4.5-7 | VSM-12-M | T 3 105 1200 21-000 |
| | | M16 X 1.5 | | 6.5-9 | VSM-16-M | T 3 105 1600 21-000 |
| | | M20 X 1.5 | | 6.5-9 | VSM-20-M | T 3 105 2000 21-000 |
| | | 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 | | | | | | |
|  <p>Material: Nickel plated brass Temperature range: -40°C ~ +100°C</p> | | 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 |
| | | | 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 |
| | | M25 X 1.5 | | | STUD-M25 | T 3 333 2525 11-000 |
| | | 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 |

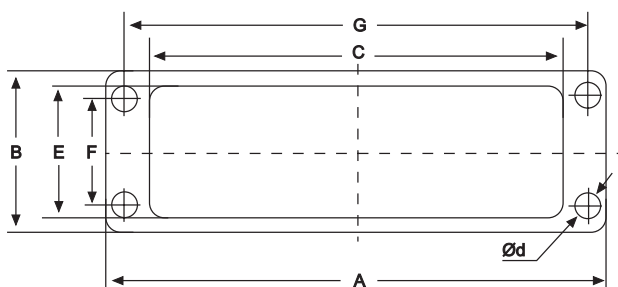
Cable fittings and accessories

| | Metr. | PG | Type | Part Number | |
|---|-----------|------|-----------|---------------------|---------------------|
| Inside and outside thread adapter | | | | | |
|  <p>Material: Nickel plated brass Temperature range: -40°C ~ +100°C</p> | | 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 | |
| Cable gland clamps | | | | | |
|  <p>Material: Nickel plated brass Temperature range: -30°C ~ +100°C Protection: IP65</p> | | | 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 | |

Housings mounting dimensions



H3A housing



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

| Shell type | Mounted type | Dimensions (mm) | | | | | | |
|------------|--------------|-----------------|------|-------|------|------|-----|-----|
| | | A | B | C | E | F | G | Ød |
| H3A | Bulkhead | 40 | 28 | 21 | 21 | 30 | - | 3.2 |
| | Surface | 40 | 28 | - | - | 30 | - | 3.2 |
| H10A | Bulkhead | 81 | 29.5 | 57.5 | 24 | 17.5 | 70 | 3.4 |
| | Surface | 80 | 50 | - | - | 40 | 48 | 4.5 |
| H16A | Bulkhead | 96 | 29.5 | 73.7 | 24 | 17.5 | 86 | 3.4 |
| | Surface | 96 | 50 | - | - | 40 | 64 | 4.5 |
| H32A | Bulkhead | 102 | 56 | 74.2 | 48.4 | 42 | 92 | 4.4 |
| | Surface | 106 | 57 | - | - | 46 | 94 | 5.5 |
| H6B | Bulkhead | 80 | 43 | 52.2 | 35 | 32 | 70 | 4.4 |
| | Surface | 82 | 52 | - | - | 40 | 70 | 5.5 |
| H10B | Bulkhead | 93 | 43 | 65.2 | 35 | 32 | 83 | 4.3 |
| | Surface | 94 | 52 | - | - | 40 | 82 | 5.5 |
| H16B | Bulkhead | 113 | 43 | 85.5 | 35 | 32 | 103 | 4.3 |
| | Surface | 117 | 57 | - | - | 45 | 105 | 5.5 |
| H24B | Bulkhead | 140 | 43 | 112.2 | 35 | 32 | 130 | 4.3 |
| | Surface | 144 | 57 | - | - | 45 | 132 | 5.5 |
| H32B | Bulkhead | 124 | 79 | 85.5 | 71 | 65 | 110 | 5.4 |
| | Surface | 124.5 | 81 | - | - | 67 | 112 | 5.4 |
| H48B | Bulkhead | 165 | 90 | 124 | 82 | 70 | 148 | 6.4 |
| | Surface | 132 | 120 | - | - | 106 | 111 | 6.5 |

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| 0-0164160-4 | 111 | 0-1102839-2 | 273 | 0-1103092-1 | 195 |
| 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 |
| 0-1102192-1 | 268 | 0-1102839-3 | 295 | 0-1103092-9 | 195 |
| 0-1102192-1 | 273 | 0-1102839-4 | 100 | 0-1106258-3 | 296 |
| 0-1102192-1 | 295 | 0-1102839-4 | 153 | 0-1106258-4 | 296 |
| 0-1102192-2 | 100 | 0-1102839-4 | 268 | 0-1106259-3 | 296 |
| 0-1102192-2 | 153 | 0-1102839-4 | 295 | 0-1106259-4 | 296 |
| 0-1102192-2 | 268 | 0-1102839-4 | 273 | 0-1106401-2 | 36 |
| 0-1102192-2 | 273 | 0-1102839-5 | 273 | 0-1106401-2 | 59 |
| 0-1102192-2 | 295 | 0-1102839-6 | 273 | 0-1106401-2 | 188 |
| 0-1102792-1 | 99 | 0-1102840-1 | 100 | 0-1106401-3 | 36 |
| 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 |
| 0-1102836-1 | 100 | 0-1102840-1 | 295 | 0-1106401-4 | 59 |
| 0-1102836-1 | 153 | 0-1102840-2 | 100 | 0-1106401-4 | 188 |
| 0-1102836-1 | 268 | 0-1102840-2 | 153 | 0-1106402-2 | 35 |
| 0-1102836-1 | 273 | 0-1102840-2 | 268 | 0-1106402-2 | 58 |
| 0-1102836-1 | 295 | 0-1102840-2 | 273 | 0-1106402-2 | 187 |
| 0-1102836-2 | 100 | 0-1102840-2 | 295 | 0-1106402-3 | 35 |
| 0-1102836-2 | 153 | 0-1102840-3 | 100 | 0-1106402-3 | 58 |
| 0-1102836-2 | 268 | 0-1102840-3 | 153 | 0-1106402-3 | 187 |
| 0-1102836-2 | 273 | 0-1102840-3 | 268 | 0-1106407-1 | 36 |
| 0-1102836-2 | 295 | 0-1102840-3 | 273 | 0-1106407-1 | 59 |
| 0-1102837-1 | 100 | 0-1102840-3 | 295 | 0-1106407-1 | 188 |
| 0-1102837-1 | 153 | 0-1102840-4 | 100 | 0-1106407-2 | 36 |
| 0-1102837-1 | 268 | 0-1102840-4 | 153 | 0-1106407-2 | 59 |
| 0-1102837-1 | 273 | 0-1102840-4 | 268 | 0-1106407-2 | 188 |
| 0-1102837-1 | 295 | 0-1102840-4 | 273 | 0-1106408-1 | 35 |
| 0-1102837-2 | 100 | 0-1102840-4 | 295 | 0-1106408-1 | 58 |
| 0-1102837-2 | 153 | 0-1102855-1 | 111 | 0-1106408-1 | 187 |
| 0-1102837-2 | 268 | 0-1102855-6 | 111 | 0-1106408-2 | 35 |
| 0-1102837-2 | 273 | 0-1102877-1 | 44 | 0-1106408-2 | 58 |
| 0-1102837-2 | 295 | 0-1102877-2 | 44 | 0-1106408-2 | 187 |
| 0-1102838-1 | 100 | 0-1102879-1 | 45 | 0-1106408-3 | 35 |
| 0-1102838-1 | 153 | 0-1102879-2 | 45 | 0-1106408-3 | 58 |
| 0-1102838-1 | 268 | 0-1102942-1 | 123 | 0-1106408-3 | 187 |
| 0-1102838-1 | 273 | 0-1102983-1 | 99 | 0-1106413-3 | 123 |
| 0-1102838-1 | 295 | 0-1102983-1 | 152 | 0-1106415-2 | 123 |
| 0-1102838-2 | 100 | 0-1102983-1 | 266 | 0-1106416-3 | 73 |
| 0-1102838-2 | 153 | 0-1102983-1 | 293 | 0-1106416-3 | 122 |
| 0-1102838-2 | 268 | 0-1103072-1 | 194 | 0-1106416-4 | 73 |
| 0-1102838-2 | 273 | 0-1103072-2 | 194 | 0-1106416-4 | 122 |
| 0-1102838-2 | 295 | 0-1103073-3 | 193 | 0-1106424-1 | 123 |
| 0-1102839-1 | 100 | 0-1103073-4 | 193 | 0-1106424-2 | 123 |
| 0-1102839-1 | 153 | 0-1103074-1 | 196 | 0-1106425-1 | 73 |
| 0-1102839-1 | 268 | 0-1103074-2 | 196 | 0-1106425-1 | 122 |
| 0-1102839-1 | 273 | 0-1103074-3 | 196 | 0-1106425-2 | 73 |
| 0-1102839-1 | 295 | 0-1103074-4 | 196 | 0-1106425-2 | 122 |
| 0-1102839-2 | 100 | 0-1103074-5 | 196 | 0-1106425-3 | 73 |
| 0-1102839-2 | 153 | 0-1103074-6 | 196 | 0-1106425-3 | 122 |

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| 0-1106425-4 | 122 | 0-1106446-3 | 256 | 0-1106473-4 | 266 |
| 0-1106425-6 | 73 | 0-1106446-4 | 89 | 0-1106473-4 | 293 |
| 0-1106425-6 | 122 | 0-1106446-4 | 141 | 0-1106474-1 | 99 |
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| 0-1106427-4 | 274 | 0-1106454-2 | 141 | 0-1108533-1 | 151 |
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| 0-1106436-5 | 242 | 0-1106462-2 | 152 | 0-1110950-2 | 272 |
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| 0-1106443-1 | 90 | 0-1106472-1 | 151 | 0-1110953-5 | 275 |
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| 0-1106443-1 | 177 | 0-1106472-2 | 98 | 0-1110953-7 | 275 |
| 0-1106443-1 | 257 | 0-1106472-2 | 151 | 0-1110953-8 | 275 |
| 0-1106444-1 | 89 | 0-1106472-2 | 294 | 0-1110953-9 | 275 |
| 0-1106444-1 | 141 | 0-1106473-1 | 99 | 0-1110955-1 | 272 |
| 0-1106444-1 | 176 | 0-1106473-1 | 152 | 0-1110955-2 | 272 |
| 0-1106444-1 | 256 | 0-1106473-1 | 266 | 0-1110955-3 | 272 |
| 0-1106444-2 | 89 | 0-1106473-1 | 293 | 0-1110955-4 | 272 |
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| 1-1102600-5 | 187 | 1-1102631-5 | 122 | 1-1102665-5 | 98 |
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| 1-1102601-5 | 59 | 1-1102635-5 | 122 | 1-1102665-5 | 294 |
| 1-1102601-5 | 188 | 1-1102638-5 | 73 | 1-1103092-0 | 195 |
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| 1-1102603-5 | 35 | 1-1102640-5 | 242 | 1-1103416-1 | 43 |
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| 1-1102603-5 | 187 | 1-1102642-5 | 131 | 1-1103416-8 | 43 |
| 1-1102604-5 | 123 | 1-1102642-5 | 242 | 1-1103416-9 | 46 |
| 1-1102605-5 | 123 | 1-1102644-5 | 80 | 1-1103416-7 | 43 |
| 1-1102606-5 | 73 | 1-1102644-5 | 131 | 1-1103416-8 | 43 |
| 1-1102606-5 | 122 | 1-1102644-5 | 242 | 1-1103417-1 | 43 |
| 1-1102610-5 | 81 | 1-1102646-5 | 80 | 1-1103417-1 | 46 |
| 1-1102610-5 | 132 | 1-1102646-5 | 131 | 1-1103417-7 | 43 |
| 1-1102610-5 | 243 | 1-1102646-5 | 242 | 1-1103417-7 | 46 |
| 1-1102610-5 | 267 | 1-1102647-5 | 80 | 1-1103417-8 | 43 |
| 1-1102611-5 | 81 | 1-1102647-5 | 131 | 1-1103417-8 | 46 |
| 1-1102611-5 | 132 | 1-1102647-5 | 242 | 1-1103417-9 | 46 |
| 1-1102611-5 | 243 | 1-1102649-5 | 89 | 1-1105000-2 | 111 |
| 1-1102611-5 | 267 | 1-1102649-5 | 141 | 1-1105000-3 | 111 |
| 1-1102612-5 | 81 | 1-1102649-5 | 176 | 1-1105001-2 | 111 |
| 1-1102612-5 | 132 | 1-1102649-5 | 256 | 1-1105001-3 | 111 |
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| T 1 62 024 3221-000 | 150 | T 1 62 910 1216-000 | 62 | T 1 65 010 3225-000 | 241 |
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| T 1 62 032 0129-000 | 159 | T 1 62 910 1225-000 | 62 | T 1 65 010 3232-000 | 241 |
| T 1 62 032 0129-000 | 180 | T 1 62 916 1116-000 | 40 | T 1 65 016 3121-000 | 88 |
| T 1 62 032 0132-000 | 105 | T 1 62 916 1116-000 | 65 | T 1 65 016 3121-000 | 140 |
| T 1 62 032 0132-000 | 159 | T 1 62 916 1120-000 | 40 | T 1 65 016 3121-000 | 175 |
| T 1 62 032 0132-000 | 180 | T 1 62 916 1120-000 | 65 | T 1 65 016 3121-000 | 255 |
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