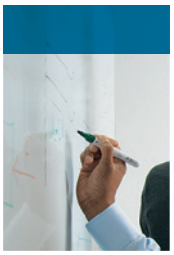

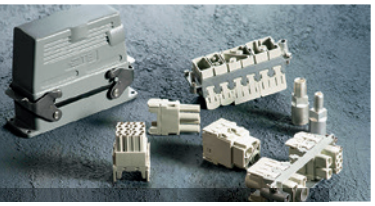

# HEAVY DUTY CONNECTORS

# Contents


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# TE Heavy Duty Connectors – Applications

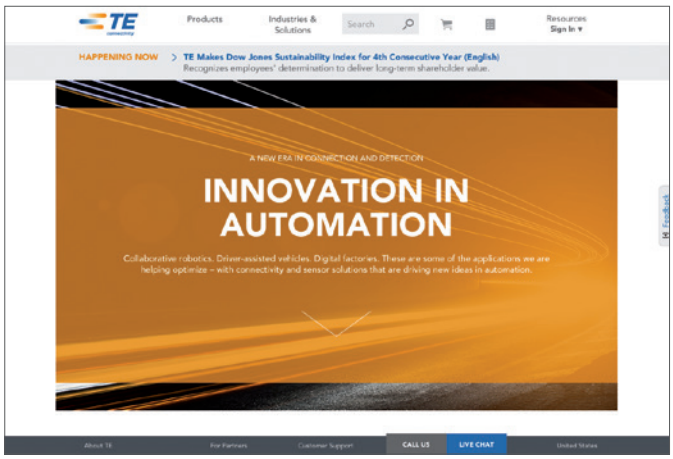
## Rolling Stock

## Machinery

## Factory Automation

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

# TE CONNECTIVITY AT YOUR SERVICE




## TE Connectivity Online

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

## Product Information Centers

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

- Email us
- Call us
- Chat with us

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

## Internet

te.com



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

## Restriction on the Use of Hazardous Substances (RoHS)

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

### ROHS COMPLIANT

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

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

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

### NON-ROHS COMPLIANT

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

### 5 OF 6 COMPLIANT

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

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

### GETTING THE INFORMATION YOU NEED

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

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

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

RoHS Customer Support Center

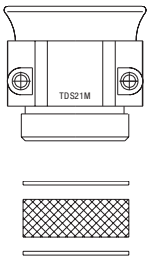
## General overview of heavy duty connectors

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



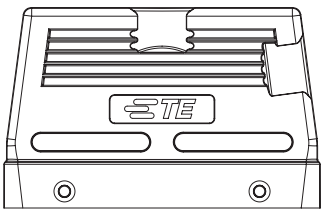
All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

## Connector components




### CABLE FITTING

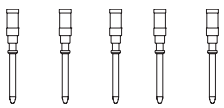
Special cable fittings for protection up to IP69K and for electro-magnetic compatibility available



### HOOD

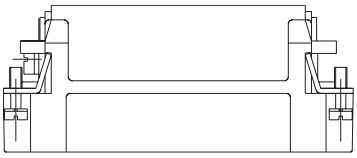
Standard and corrosion-resistant connector hoods:

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



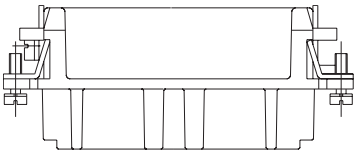
### CONTACTS

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



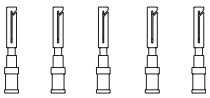
### MALE INSERT

Screw, Spring clamp or crimp terminal



### FEMALE INSERT

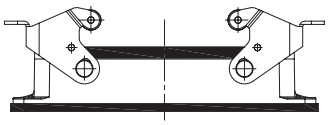
Screw, Spring clamp or crimp terminal



### 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

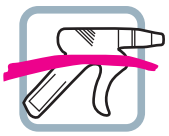


## Terminal types

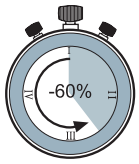
| Screw dimensions and tightening torque for screw terminals | | | | | | |
|---|---|---|---|---|---|---|
| **Wire gauge (mm²)** | 1.5 | 2.5 | 4.0 | 6.0 | 10 | 16 |
| **Screw thread** | M3 | M3 | M3.5 | M4 | M4 | M6 |
| **Test moment of torque (Nm)** | 0.5 | 0.5 | 0.8 | 1.2 | 1.2 | 1.2 |
| **Min. pull-out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

### Spring terminal

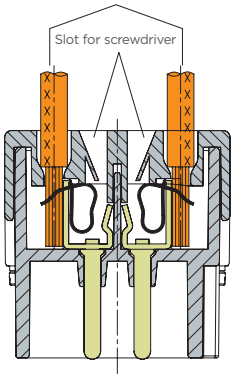
No special tools

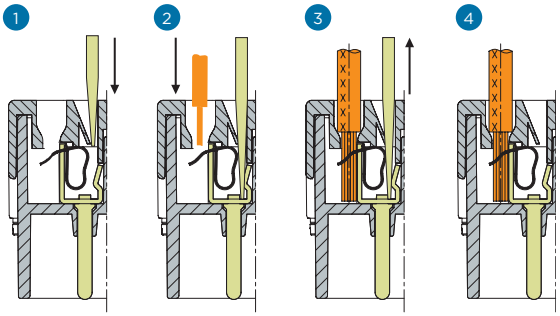


60% faster




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.

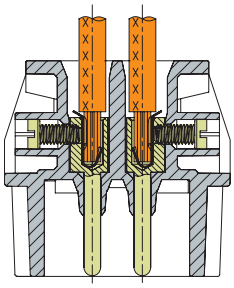


All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

## Terminal types

### SCREW TERMINAL

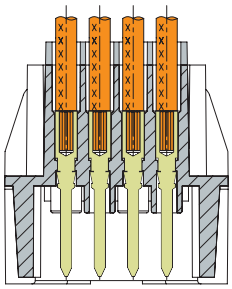
HA series
HE, HVE series
HSB series
HK series
HWK series
HEAV series



| Inserts | Max. wire gauge | | Stripping length L (mm) |
|---|---|---|---|
| | mm² | 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 |

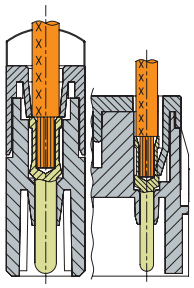
### CRIMP TERMINAL

HD series
HDD series



| Inserts | Max. wire gauge | | Stripping length L (mm) |
|---|---|---|---|
| | mm² | AWG | |
| HD<br>HDD<br>HMN(10A)<br>HQ(10A)<br>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 |

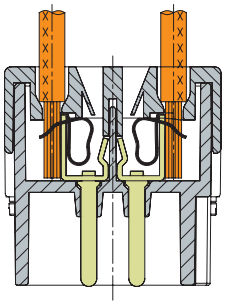
HAC, HEC series
HEEE, HEE series
HMN(16A/40A) series
HQ(16A/40A) series
HK(16A/40A) series



| Inserts | Max. wire gauge | | Stripping length L (mm) | |
|---|---|---|---|---|
| | mm² | AWG | 16A | 40A |
| HAC<br>HEC<br>HEE/HEEE<br>HMN(16A/40A)<br>HQ(16A/40A)<br>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) |
|---|---|---|---|
| | mm² | 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



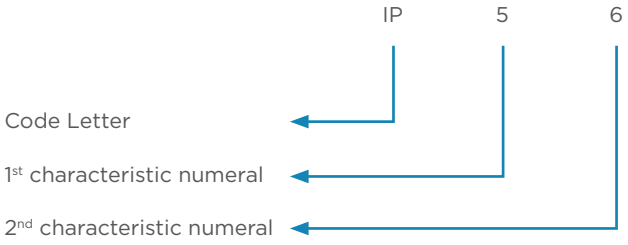
All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

## 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.

| **1st numeral** | **Protection against solid objects and against access to hazardous parts** | |
|---|---|---|
| | short description | definition |
| 0 | No protection | |
| 1 | • protection against solid foreign bodies of Ø 50mm<br>• protection against access to hazardous parts with the back of a hand | A sphere of Ø 50mm, must not intrude |
| 2 | • protection against solid foreign bodies of Ø 12mm<br>• protection against access to hazardous parts with the finger | A sphere of Ø 12mm diameter, must not intrude |
| 3 | • protection against solid foreign bodies of 2.5mm diameter and bigger<br>• protection against access to hazardous parts with a tool | A sphere of Ø 2.5mm diameter, must not intrude |
| 4 | • protection against solid foreign bodies of 1.0mm diameter and bigger<br>• 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.

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



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

# Standards

## SPECIFICATIONS

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

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

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

**Include some contents:**

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

## OVER-VOLTAGE CATEGORIES

### 1. Over-voltage category I

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

### 2. Over-voltage category II

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

### 3. Over-voltage category III

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

# Insulation Coordination for Electrical Connectors in Low Voltage Plants

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

## INSULATION COORDINATION

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

Air distances are measured according to the outer or inner power surge expected. The four power surge classes (power surge categories I to IV) take the different use of the connector into account. Depending on the homogeneity of the field between the electrodes (case A – 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 tonorm DIN VDE 0110 for surge category III and severity of pollution 3.

## SURGE CATEGORY I TO IV

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

## POLLUTION DEGREE 1 TO 4

DIN VDE 0110 defines the pollution degrees as follows:

**Pollution Degree 1:**
There is no or only dry, non-conductive pollution. The pollution is without influence.
**Pollution Degree 2:**
There is only non-conductive pollution. Occasional momentary conductivity due to condensation.
**Pollution Degree 3:**
There is conductive pollution or dry non-conductive pollution, which becomes conductive due to condensation.
**Pollution Degree 4:**
There is a continuous conductivity due to conductive dust, rain or moisture.

**Insulation Material**
The insulation materials are divided into the following four groups depending on their comparative tracking index (CTI):
Insulation material I: ..... 600 ≤ CTI
Insulation material II: ..... 400 ≤ CTI < 600
Insulation material III a: ..... 175 ≤ CTI < 400



All specifications subject to change. Consult TE Connectivity for latest design specifications.
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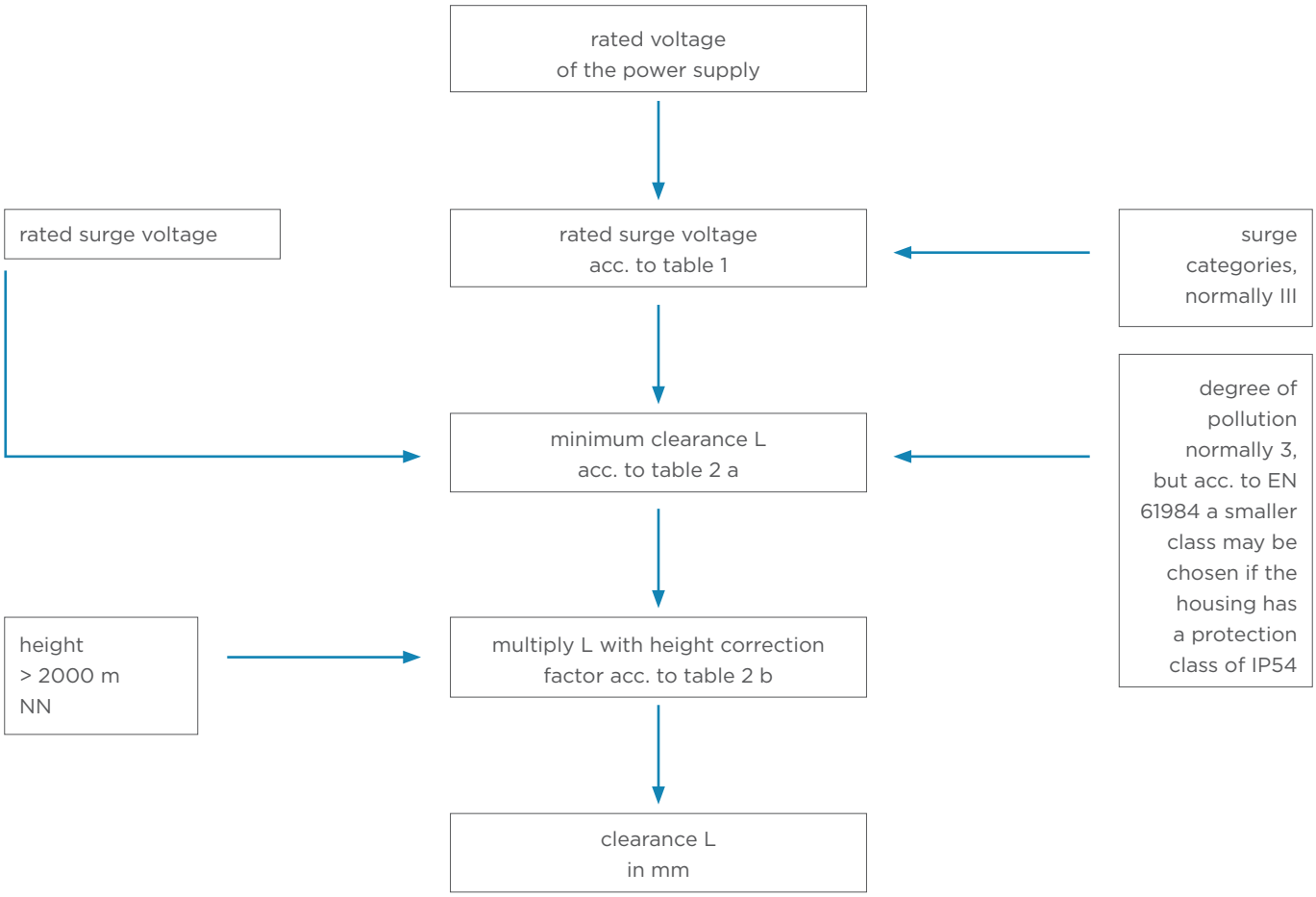
## Measurement of Clearances

### 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 | _) | | | 0.01 | _) | | |
| 0.40 | 0.02 | | | | 0.02 | | | |
| 0.5 _) | 0.04 | | | | 0.04 | | | |
| 0.60 | 0.06 | | | | 0.06 | | | |
| 0.80 _) | 0.10 | 0.2 | 0.80 | | 0.10 | 0.2 | 0.8 | |
| 1.0 | 0.15 | | | 1.6 | 0.15 | | | 1.6 |
| 1.2 | 0.25 | 0.25 | | | 0.2 | | | |
| 1.5 _) | 0.5 | 0.5 | | | 0.3 | 0.3 | | |
| 2.0 | 1.0 | 1.0 | 1.0 | | 0.45 | 0.5 | | |
| 2.5 _) | 1.5 | 1.5 | 1.5 | | 0.6 | 0.6 | | |
| 3.0 | 2 | 2 | 2 | 2 | 0.8 | 0.8 | | |
| 4.0 _) | 3 | 3 | 3 | 3 | 1.2 | 1.2 | 1.2 | |
| 5.0 | 4 | 4 | 4 | 4 | 1.5 | 1.5 | 1.5 | |
| 6.0 _) | 5.5 | 5.5 | 5.5 | 5.5 | 2 | 2 | 2 | 2 |
| 8.0 _) | 8 | 8 | 8 | 8 | 3 | 3 | 3 | 3 |
| 10 | 11 | 11 | 11 | 11 | 3.5 | 3.5 | 3.5 | 3.5 |
| 12 _) | 14 | 14 | 14 | 14 | 4.5 | 4.5 | 4.5 | 4.5 |
| 15 | 18 | 18 | 18 | 18 | 5.5 | 5.5 | 5.5 | 5.5 |
| 20 | 25 | 25 | 25 | 25 | 8 | 8 | 8 | 8 |
| 25 | 33 | 33 | 33 | 33 | 10 | 10 | 10 | 10 |
| 30 | 40 | 40 | 40 | 40 | 12.5 | 12.5 | 12.5 | 12.5 |
| 40 | 60 | 60 | 60 | 60 | 17 | 17 | 17 | 17 |
| 50 | 75 | 75 | 75 | 75 | 22 | 22 | 22 | 22 |
| 60 | 90 | 90 | 90 | 90 | 27 | 27 | 27 | 27 |
| 80 | 130 | 130 | 130 | 130 | 35 | 35 | 35 | 35 |
| 100 | 170 | 170 | 170 | 170 | 45 | 45 | 45 | 45 |

1) This voltage is
- for functional insulation: the maximum impulse voltage expected to occur across the clearance
- for basic insulation directly exposed by transient overvoltages
- for other basic insulation

_) Preferred values

## FACTORS FOR HEIGHT CORRECTION

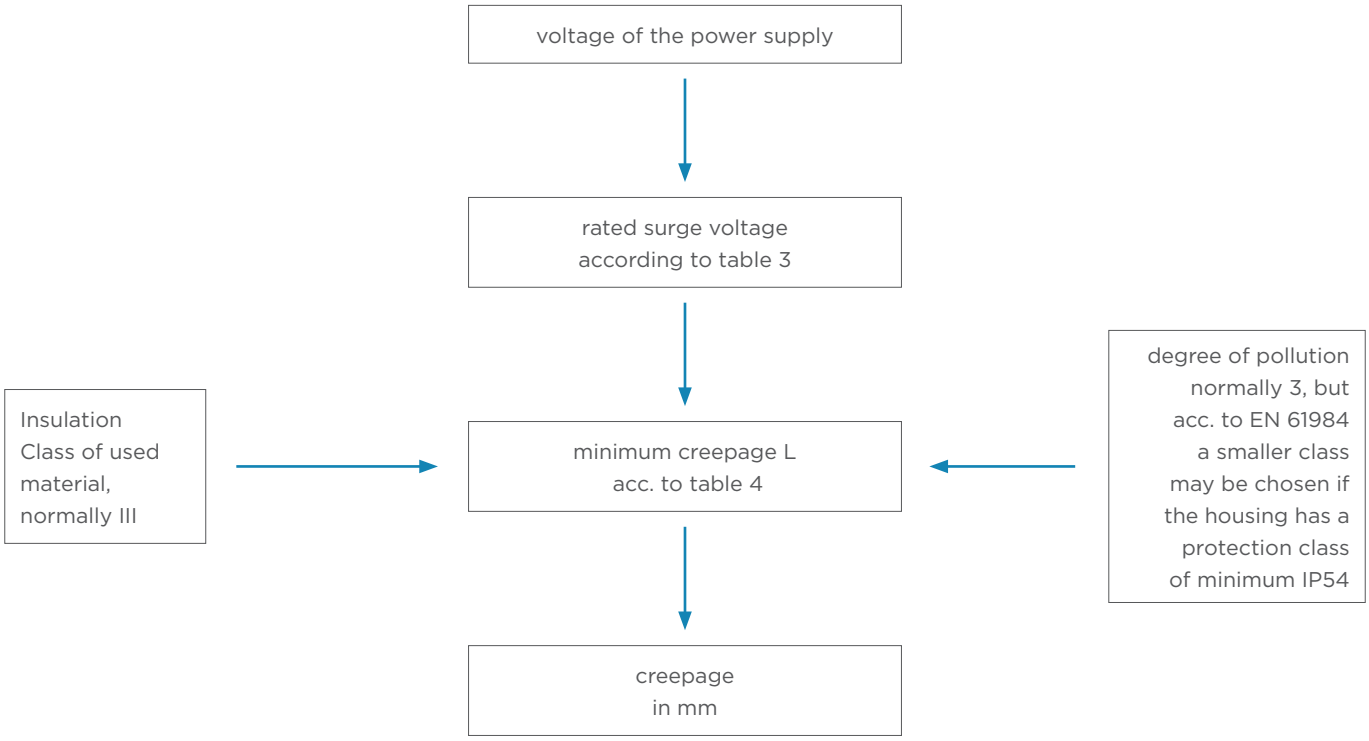
| height in m | normal air pressure in kPa | multiplication factor for distances |
|---|---|---|
| 2000 | 80.0 | 1.00 |
| 3000 | 70.0 | 1.14 |
| 4000 | 62.0 | 1.29 |
| 5000 | 54.0 | 1.48 |
| 6000 | 47.0 | 1.70 |
| 7000 | 41.0 | 1.95 |
| 8000 | 35.5 | 2.25 |
| 9000 | 30.5 | 2.62 |
| 10000 | 26.5 | 3.02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



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

## Measurement of creepage

### DIAGRAM FOR THE DETERMINATION OF CREEPAGE



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

Table 3

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

## CREEPAGES IN [MM] FOR ELECTRICAL EQUIPMENTS

| rated 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

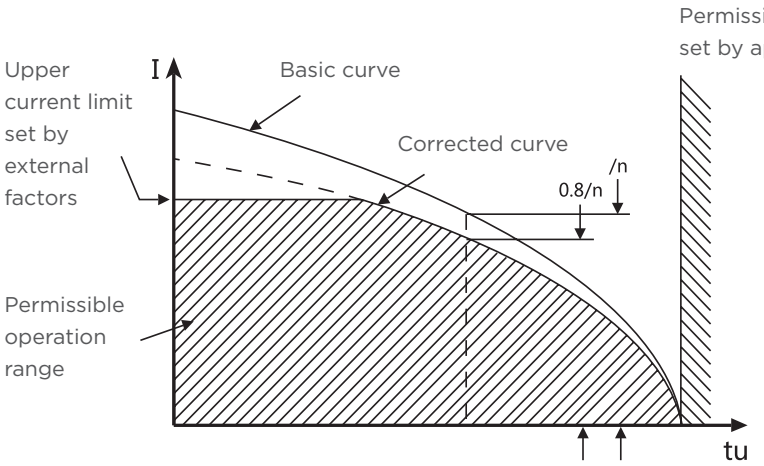


All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

## Standards

### CURRENT CARRYING CAPACITY

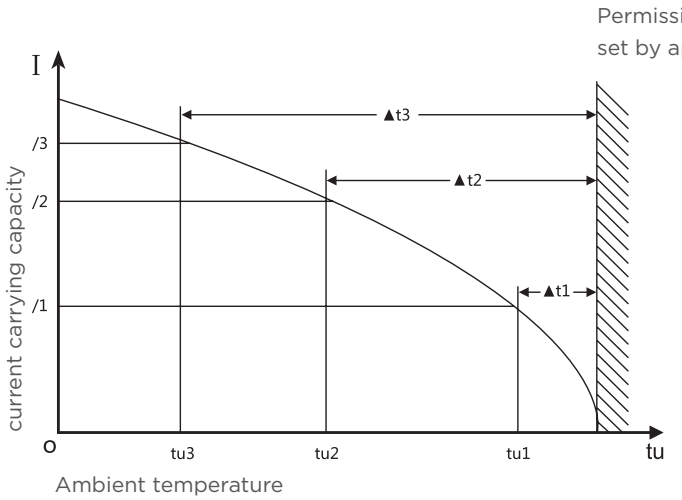
The current carrying capacity is determined in tests which are conducted on the basis of the DIN IEC 60 512 part 3. The current carrying capacity is limited by the thermal properties of materials which are used for inserts as well as by the insulating materials. These components have a maximum temperature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




Example of a current capacity curve

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

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



# Standards

## TIGHTENING TORQUE OF TERMINAL BLOCK SCREWS

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

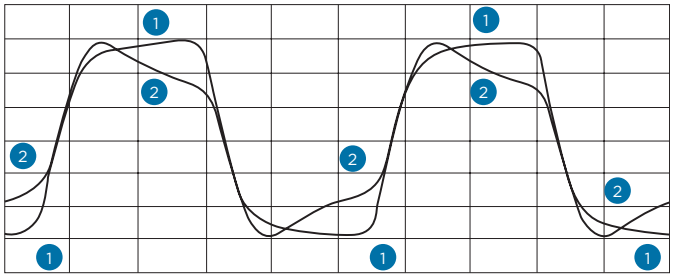
**Extract from IEC 60 947-1/EN 60 947, Table 4**

The torque according to IEC, EN

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

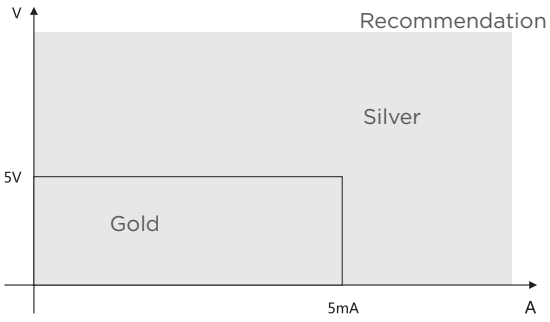
## LOW CURRENTS AND VOLTAGES

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



1 New contact
2 After ageing

Changes to the transmitted signal after artifical ageing




Left is a table derived from actual experiences



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

## 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)<br>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<br>crimp<br>spring | CEM/F(16A)<br>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)<br>DEM/F(16A) | H3A |
| | HQ-007 | 7+PE | 10A | 400V | | CDM/F(10A)<br>DDM/F(10A) | H3A |
| | HQ-008 | 8+PE | 16A | 500V | | CEM/F(16A)<br>DEM/F(16A) | H8A |
| | HQ-012 | 12+PE | 10A | 400V | | CDM/F(10A)<br>DDM/F(10A) | H3A |
| | HQ-017 | 17+PE | 10A | 250V | | | H8A |
| | HQ4/2 | 4+PE+2 | 40A+10A | 600V+250V | | CDM/F(10A)<br>DDM/F(10A)<br>CMM/F(40A)<br>DMM/F(40A) | H8A |
| HEAV | HEAV-006 | 6+PE | 16A | 500V | screw<br>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)<br>DMM/F(40A) | - |
| | HMN-004 | 4 | 40A | 830V | crimp | CMM/F(40A)<br>DMM/F(40A) | - |
| | HMN-004SC | 4 | - | - | - | - | - |
| | HMN-005 | 5 | 16A | 400V | spring | - | - |
| | HMN-006 | 6 | 16A | 500V | crimp | CEM/F(16A)<br>DEM/F(16A) | - |
| | HMN-006P | 6 | 16A | 830V | crimp | | - |



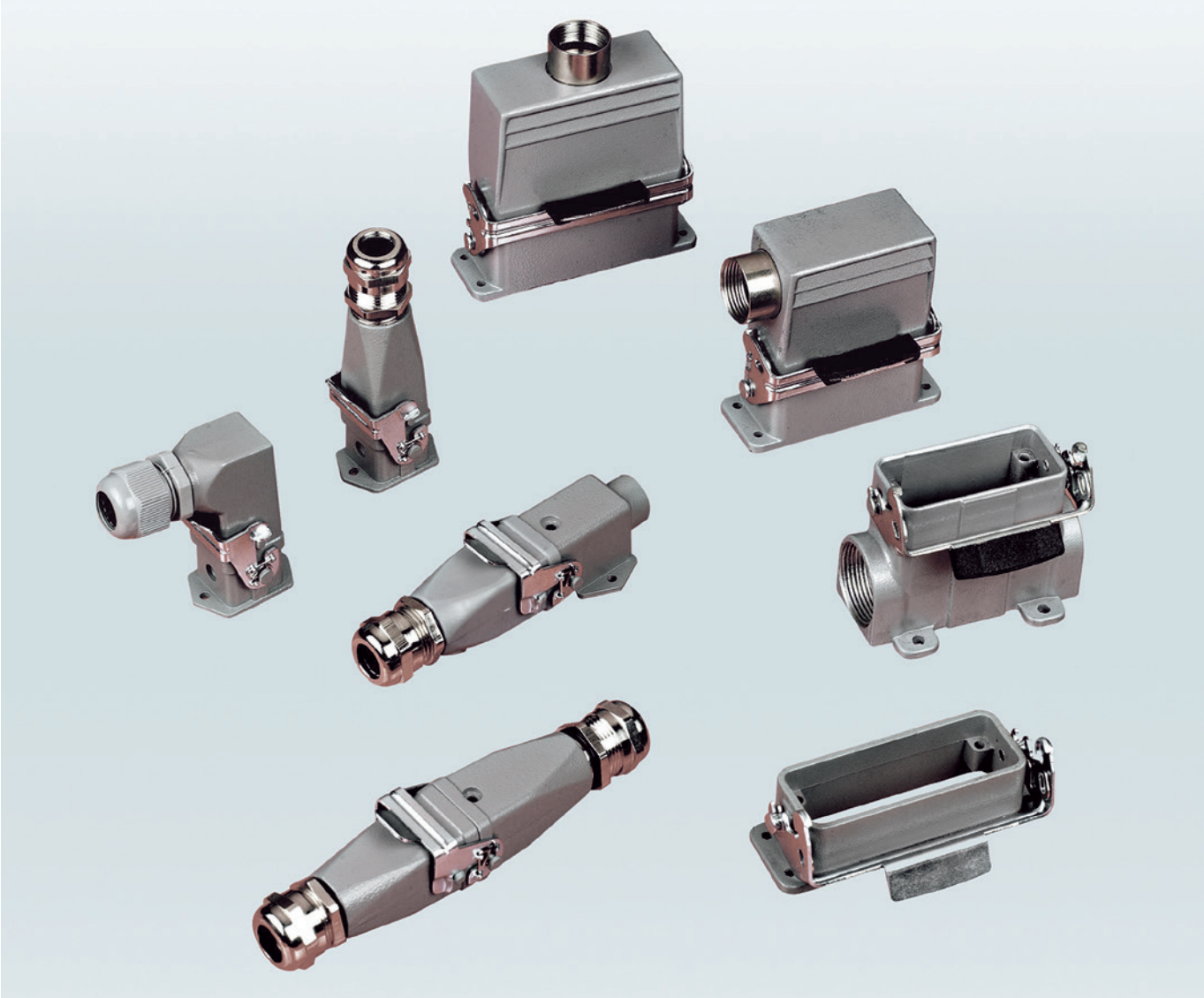
All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

## Selection guide

### TECHNICAL INFORMATION OF INSERTS

| Insert | Type | Poles | Current | Voltage | Terminal | Contacts | Shells |
|---|---|---|---|---|---|---|---|
| HMN | HMN-008 | 8 | 16A | 400V | crimp | CEM/F(16A)<br>DEM/F(16A) | - |
| | HMN-012 | 12 | 10A | 250V | crimp | CDM/F(10A)<br>DDM/F(10A) | - |
| | HMN-017 | 17 | 10A | 160V | crimp | CDM/F(10A)<br>DDM/F(10A) | - |
| | HMN-020 | 20 | 16A | 500V | crimp | CEM/F(16A)<br>DEM/F(16A) | - |
| | HMN-025 | 25 | 5A | 50V | crimp | CAM/F(5A)<br>DAM/F(5A) | - |
| | HMN-009 | 9 | 5A | 50V | crimp | CAM/F(5A)<br>DAM/F(5A) | - |
| | HMN-RJ45 | 8 | 1A | 50V | crimp | - | - |
| | HMN-Q1 | 1+1 | 16A | 50V | crimp | CEM/F(16A)<br>DEM/F(16A) | - |
| | HMN-Q2 | 4+4 | 10A | 50V | crimp | CDM/F(10A)<br>DDM/F(10A) | - |
| | HMN-Q3 | 8+8 | 5A | 50V | crimp | CAM/F(5A)<br>DAM/F(5A) | - |
| | PIN-Q1 | 1 | 16A | 50V | crimp | CEM/F(16A)<br>DEM/F(16A) | - |
| | PIN-Q2 | 4 | 10A | 50V | crimp | CDM/F(10A)<br>DDM/F(10A | - |
| | PIN-Q3 | 8 | 5A | 50V | crimp | CAM/F(5A)<br>DAM/F(5A) | - |
| | HMN-DM | - | - | - | - | - | - |
| HK/<br>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)<br>DMM/F(40A)<br>CDM/F(10A)<br>DDM/F(10A) | H16B |
| | HK6/36 | 6+PE+36 | 40A+10A | 690V+160V | crimp | CMM/F(40A)<br>DMM/F(40A)<br>CDM/F(10A)<br>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)<br>DEM/F(16A)<br>CDM/F(10A)<br>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/<br>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



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

# 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

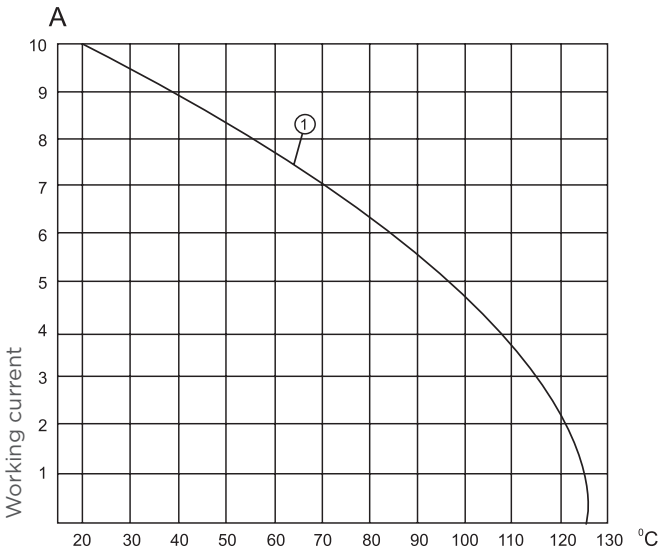
Material ..... Copper alloy
Surface ..... Hard silver-plated
..... Hard gold-plated
Contact resistance ..... ≤3mΩ
Terminal ..... Crimp terminal
..... Rolled terminal
- $mm^2$ ..... 0.15-2.5$mm^2$
- AWG ..... 26-14

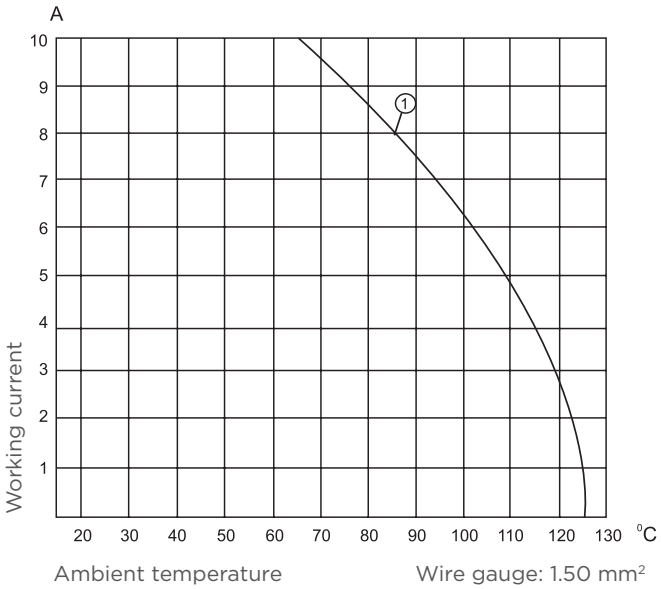
## HOODS, HOUSINGS

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.



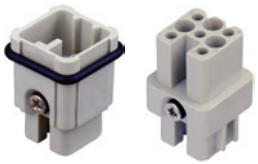
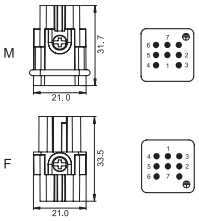
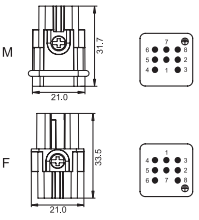

1 HD-007

## HD-007/008 inserts

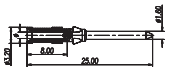
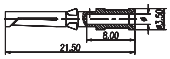
INSERTS FOR H3A HOOD/HOUSING

250V/50V 10A

7+⏚
8

| Dimensions (mm) | Contact arrangement view from termination side | Part Number | | Type |
|---|---|---|---|---|
| | | Male insert | Female insert | |
| 250V/10A  |   | T2020072101-000 | | HD-007-M |
| | | | T2020072201-000 | HD-007-F |
| 50V/10A |   | T2020082101-000 | | HD-008-M |
| | | | T2020082201-000 | HD-008-F |

### 10A Contact

| Tech data<br>**Material:**<br>copper alloy<br>**Contact resistance:** ≤3mΩ<br>**Terminal:**<br>crimp connection | 10A Male crimp contacts  | Wire gauge | | Strip-ping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|---|---|---|---|---|---|---|
| | | mm² | AWG | mm | Type | Part Number | Type | Part Number |
| **CDM/Male** | | 0.14-0.37 | 26-22 | 8.0 | CDM-0.14 | T2020001002-000 | DDM-0.14 | T2020011002-000 |
| | | 0.5 | 20 | 8.0 | CDM-0.5 | T2020001005-000 | DDM-0.5 | T2020011005-000 |
| | | 0.75 | 18 | 8.0 | CDM-0.75 | T2020001008-000 | DDM-0.75 | T2020011008-000 |
| | | 1.0 | 18 | 8.0 | CDM-1.0 | T2020001010-000 | DDM-1.0 | T2020011010-000 |
| | | 1.5 | 16 | 8.0 | CDM-1.5 | T2020001015-000 | DDM-1.5 | T2020011015-000 |
| | | 2.5 | 14 | 6.0 | CDM-2.5 | T2020001025-000 | DDM-2.5 | T2020011025-000 |
| **CDF/Female** | 10A Female crimp contacts  | 0.14-0.37 | 26-22 | 8.0 | CDF-0.14 | T2020002002-000 | DDF-0.14 | T2020012002-000 |
| | | 0.5 | 20 | 8.0 | CDF-0.5 | T2020002005-000 | DDF-0.5 | T2020012005-000 |
| | | 0.75 | 18 | 8.0 | CDF-0.75 | T2020002008-000 | DDF-0.75 | T2020012008-000 |
| | | 1.0 | 18 | 8.0 | CDF-1.0 | T2020002010-000 | DDF-1.0 | T2020012010-000 |
| | | 1.5 | 16 | 8.0 | CDF-1.5 | T2020002015-000 | DDF-1.5 | T2020012015-000 |
| | | 2.5 | 14 | 6.0 | CDF-2.5 | T2020002025-000 | DDF-2.5 | T2020012025-000 |



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

# HA technical characteristics

Specifications ..... DIN EN 60 664-1
..... DIN EN 61984
Number of contacts ..... 3,4,10,16,32(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-004 ..... 2.5KV
Pollution degree ..... 2
Insulation resistance ..... ≥$10^{10}\Omega$
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

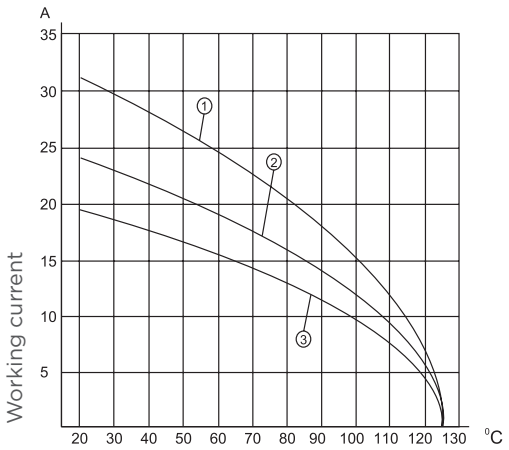
Material ..... Copper alloy
Surface ..... Hard silver-plated
..... Hard gold-xplated
Contact resistance ..... ≤1mΩ
Terminal ..... Screw terminal
..... Crimp terminal
..... Spring terminal
- $mm^2$ ..... 0.5-2.5$mm^2$ /0.14-4.0$mm^2$/0.5-2.5$mm^2$
- AWG ..... 20-14/26-14/20-14
- Tightening/test torque.....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

## HOODS, HOUSINGS

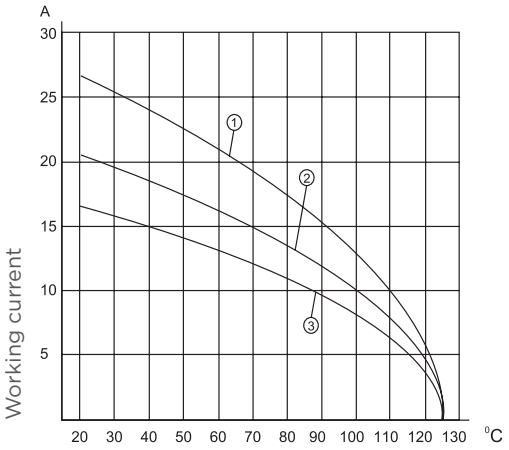
Material ..... Die cast zinc
Surface ..... Powder-coated (RAL 7037)
Locking element ..... Stainless steel, steel-zinc plated
Temperature range ..... -40°C... +100°C/125°C
Degree of protection acc. to DIN40 050 ..... IP65

## CURRENT CARRYING CAPACITY

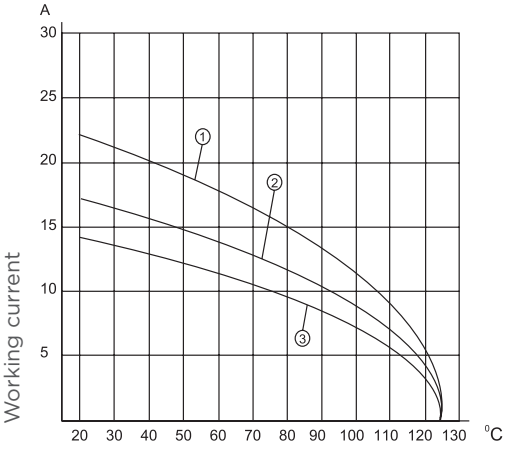
The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals. Control and test procedures according to DIN IEC 60512-3.




HA-003/HA-004




HA-010




HA-016/HA-032

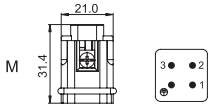
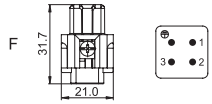
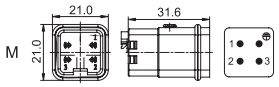
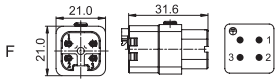
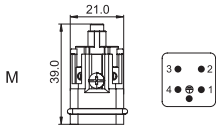
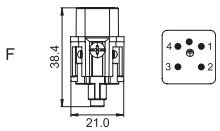
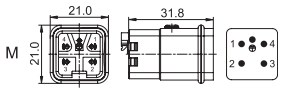
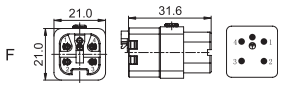
1 Wire gauge: 2.5$mm^2$
2 Wire gauge: 1.5$mm^2$
3 Wire gauge: 1.0$mm^2$

## 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 | M  F  | T2010032101-000 | | HA-003-M |
| | | | T2010032201-000 | HA-003-F |
| Spring terminal | | | | |
| 400V/10A | M  F  | T2010033101-000 | | HA-003-MS |
| | | | T2010033201-000 | HA-003-FS |
| Screw terminal | | | | |
| 250V/10A | M  F  | T2010042101-000 | | HA-004-M |
| | | | T2010042201-000 | HA-004-F |
| Spring terminal | | | | |
| 400V/10A | M  F  | T2010043101-000 | | HA-004-MS |
| | | | T2010043201-000 | HA-004-FS |



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

# HQ technical characteristics

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

## INSERTS

Working current
HQ-005,008..... 16A max
HQ-007,012,017 ..... 10A max
Working voltage
HQ-005,007,012..... 400V
HQ-008..... 500V
HQ-017..... 250V
Test voltage urms
HQ-005,017 ..... 4KV
HQ-007,008,012 ..... 6KV
Pollution degree ..... 3
Insulation resistance ..... ≥$10^{10}\Omega$
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 ..... ≤1mΩ
Terminal ..... Crimp terminal
- $mm^2$ ..... 0.14-4.0/0.14-2.5/1.5-6$mm^2$
- 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

## CURRENT CARRYING CAPACITY

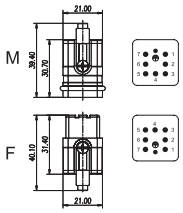
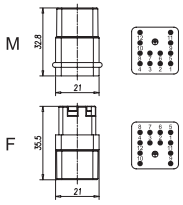
The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals. Control and test procedures according to DIN IEC 60512-3.

## HQ-007/012 inserts

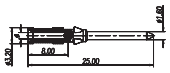
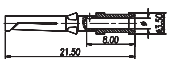
INSERTS FOR H3A HOOD/HOUSING

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) | | | | |
| |  | T2080072101-000 | | HQ-007-M |
| | | | T2080072201-000 | HQ-007-F |
| |  | T2080122101-000 | | HQ-012-M |
| | | | T2080122201-000 | HQ-012-F |

### 10A Contact

| Tech data<br>**Material:**<br>copper alloy<br>**Contact resistance:** ≤3mΩ<br>**Terminal:**<br>crimp connection<br>**CDM/Male**<br> | 10A Male crimp contacts<br>  | Wire gauge | | Strip-ping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|---|---|---|---|---|---|---|
| | | mm² | AWG | mm | Type | Part Number | Type | Part Number |
| | | 0.14-0.37 | 26-22 | 8.0 | CDM-0.14 | T2020001002-000 | DDM-0.14 | T2020011002-000 |
| | | 0.5 | 20 | 8.0 | CDM-0.5 | T2020001005-000 | DDM-0.5 | T2020011005-000 |
| | | 0.75 | 18 | 8.0 | CDM-0.75 | T2020001008-000 | DDM-0.75 | T2020011008-000 |
| | | 1.0 | 18 | 8.0 | CDM-1.0 | T2020001010-000 | DDM-1.0 | T2020011010-000 |
| | | 1.5 | 16 | 8.0 | CDM-1.5 | T2020001015-000 | DDM-1.5 | T2020011015-000 |
| | | 2.5 | 14 | 6.0 | CDM-2.5 | T2020001025-000 | DDM-2.5 | T2020011025-000 |
| **CDF/Female**<br> | 10A Female crimp contacts<br>  | 0.14-0.37 | 26-22 | 8.0 | CDF-0.14 | T2020002002-000 | DDF-0.14 | T2020012002-000 |
| | | 0.5 | 20 | 8.0 | CDF-0.5 | T2020002005-000 | DDF-0.5 | T2020012005-000 |
| | | 0.75 | 18 | 8.0 | CDF-0.75 | T2020002008-000 | DDF-0.75 | T2020012008-000 |
| | | 1.0 | 18 | 8.0 | CDF-1.0 | T2020002010-000 | DDF-1.0 | T2020012010-000 |
| | | 1.5 | 16 | 8.0 | CDF-1.5 | T2020002015-000 | DDF-1.5 | T2020012015-000 |
| | | 2.5 | 14 | 6.0 | CDF-2.5 | T2020002025-000 | DDF-2.5 | T2020012025-000 |



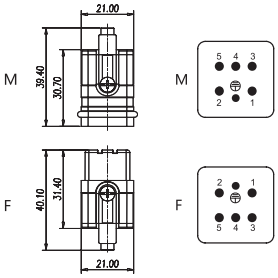
All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

## HQ-005 inserts

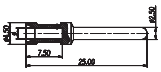
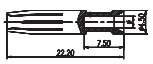
INSERTS FOR H3A HOOD/HOUSING

400V MAX. 16A

5+⏚

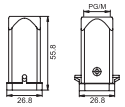
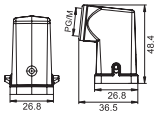
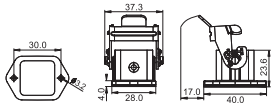
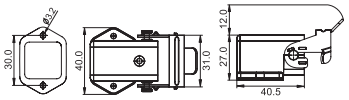
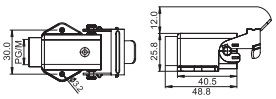
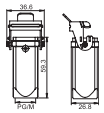
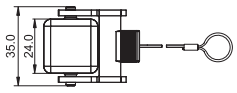
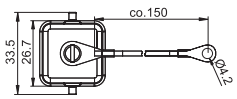
| Dimensions (mm) | Contact arrangement view from termination side | Part Number | | Type |
|---|---|---|---|---|
| | | Male insert | Female insert | |
| Crimp terminal (Order crimp contacts separately) | | | | |
| |  | T2080052101-000 | | HQ-005-M |
| | | | T2080052201-000 | HQ-005-F |

### 16A Contact

| Tech data | 16A Male crimp contacts | Wire gauge | | Strip-ping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|---|---|---|---|---|---|---|
| | | mm² | AWG | mm | Type | Part Number | Type | Part Number |
| **Material:** copper alloy<br>**Contact resistance:** ≤1mΩ<br>**Terminal:** crimp connection<br>**CEM/Male** |  | 0.14-0.37 | 26-22 | 7.5 | CEM-0.3 | T2030001002-000 | DEM-0.3 | T2030011002-000 |
| | | 0.5 | 20 | 7.5 | CEM-0.5 | T2030001005-000 | DEM-0.5 | T2030011005-000 |
| | | 0.75 | 18 | 7.5 | CEM-0.75 | T2030001008-000 | DEM-0.75 | T2030011008-000 |
| | | 1.0 | 18 | 7.5 | CEM-1.0 | T2030001010-000 | DEM-1.0 | T2030011010-000 |
| | | 1.5 | 16 | 7.5 | CEM-1.5 | T2030001015-000 | DEM-1.5 | T2030011015-000 |
| | | 2.5 | 14 | 7.5 | CEM-2.5 | T2030001025-000 | DEM-2.5 | T2030011025-000 |
| | | 4.0 | 12 | 7.5 | CEM-4.0 | T2030001040-000 | DEM-4.0 | T2030011040-000 |
| **CEF/Female** | **16A Female crimp contacts**  | 0.14-0.37 | 26-22 | 7.5 | CEF-0.3 | T2030002002-000 | DEF-0.3 | T2030012002-000 |
| | | 0.5 | 20 | 7.5 | CEF-0.5 | T2030002005-000 | DEF-0.5 | T2030012005-000 |
| | | 0.75 | 18 | 7.5 | CEF-0.75 | T2030002008-000 | DEF-0.75 | T2030012008-000 |
| | | 1.0 | 18 | 7.5 | CEF-1.0 | T2030002010-000 | DEF-1.0 | T2030012010-000 |
| | | 1.5 | 16 | 7.5 | CEF-1.5 | T2030002015-000 | DEF-1.5 | T2030012015-000 |
| | | 2.5 | 14 | 7.5 | CEF-2.5 | T2030002025-000 | DEF-2.5 | T2030012025-000 |
| | | 4.0 | 12 | 7.5 | CEF-4.0 | T2030002040-000 | DEF-4.0 | T2030012040-000 |

## H3A metal hoods/housings

POWDER-COATED, RAL 7037

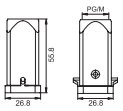
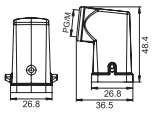
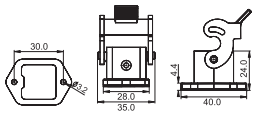
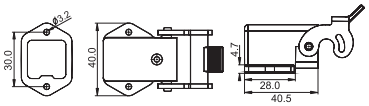
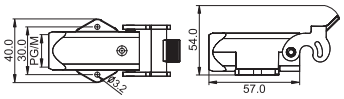
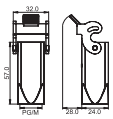
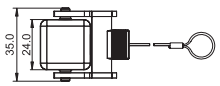
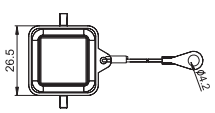
| Dimensions (mm) | | | Metr. | PG | Type | Part Number |
|---|---|---|---|---|---|---|
| Top entry | | | | | | |
| |  | | M20 | PG11 | H3A-MTG-PG11<br>H3A-MTG-M20 | T1329030111-000<br>T1329030120-000 |
| Side entry | | | | | | |
| |  | | M20 | PG11 | H3A-MTS-PG11<br>H3A-MTS-M20 | T1319030111-000<br>T1319030120-000 |
| Bulkhead mounting: Bottom entry | | | | | | |
| |  | | | | H3A-MAG | T1509030000-000 |
| Bulkhead mounting: Side entry | | | | | | |
| |  | | | | H3A-MAGS | T1549030000-000 |
| Surface mounting: Side entry | | | | | | |
| |  | | M16<br>M20 | PG11 | H3A-MAGSV-PG11<br>H3A-MAGSV-M16<br>H3A-MAGSV-M20 | T1619030111-000<br>T1619030116-000<br>T1619030120-000 |
| Cable-to-cable hood: | | | | | | |
| |  | | M20 | PG11 | H3A-MTGVB-PG11<br>H3A-MTGVB-M20 | T1739030111-000<br>T1739030120-000 |
| Protection covers for hoods (thermoplastic) | | | | | | |
| | Note: For mounted male insert and hood |  | | | H3A-KDTP | T1010031100-000 |
| Metal protection covers for hoods | | | | | | |
| | Note: For mounted female insert and hood |  | | | H3A-KDB | T1010033100-000 |



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

# H3A thermoplastic hoods/housings

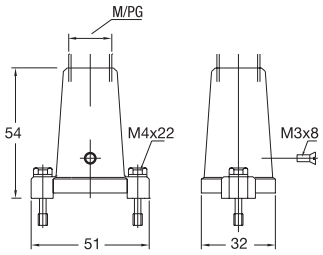
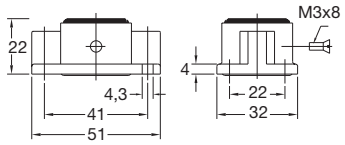
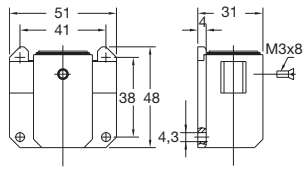
## THERMOPLASTIC HOODS, HOUSINGS

| Dimensions (mm) | | | Metr. | PG | Type | Part Number |
|---|---|---|---|---|---|---|
| Top entry | | | | | | |
| |  | | M20 | PG11 | H3A-TG-PG11<br>H3A-TG-M20 | T1329031111-000<br>T1329031120-000 |
| Side entry | | | | | | |
| |  | | M20 | PG11 | H3A-TS-PG11<br>H3A-TS-M20 | T1319031111-000<br>T1319031120-000 |
| Bulkhead mounting: Bottom entry | | | | | | |
| |  | | | | H3A-AG | T1509031100-000 |
| Bulkhead mounting: Side entry | | | | | | |
| |  | | | | H3A-AGS | T1509031111-000 |
| Surface mounting: Side entry | | | | | | |
| |  | | M16<br>M20 | PG11 | H3A-AGSV-PG11<br>H3A-AGSV-M16<br>H3A-AGSV-M20 | T1619031111-000<br>T1619031116-000<br>T1619031120-000 |
| Cable-to-cable hood: | | | | | | |
| |  | | M20 | PG11 | H3A-TGVB-PG11<br>H3A-TGVB-M20 | T1739031111-000<br>T1739031120-000 |
| Protection covers for hoods (thermoplastic) | | | | | | |
| | Note: For mounted male insert and hood |  | | | H3A-KDTP | T1010031100-000 |
| Protection covers for hoods | | | | | | |
| <br>White Grey | Note: For mounted female insert and hood |  | | | H3A-KDBP (White)<br>H3A-KDBPG (Grey) | T1010032100-000<br>T1010032300-000 |
| Covers without sealing type | | | | | | |
| | | | | | H3A-KDBP (White)<br>H3A-KDBP (Grey) | T1010033200-000<br>T1010032200-000 |

## 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 | | | | | |
| |  | | | **HIP** | |
| | | | 11 | HIP.3/4.ST0.1.11.G | 1-1102600-5 |
| | | M16 | | HIP.3/4.ST0.1.M16.G | 0-1106408-1 |
| | | | | **HIP-K** | |
| | | | 11 | HIP-K.3/4.ST0.1.11.G | 2-1102600-5 |
| | | M16 | | HIP-K.3/4.ST0.1.M16.G | 0-1106408-2 |
| | | M20 | | HIP-K.3/4.ST0.1.M20.G | 0-1106408-3 |
| | | | | **EMV-K** | |
| | | | 11 | EMV-K.3/4.ST0.1.11.G | 4-1102700-5 |
| | | M16 | | EMV-K.3/4.ST0.1.M16.G | 0-1106402-2 |
| | | M20 | | EMV-K.3/4.ST0.1.M20.G | 0-1106402-3 |
| **Surface mounted housing:** Bottom entry | | | | | |
| |  <br>Panel cut-out 21 x 21 | | | **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) | | | | | |
| |  <br>Panel cut-out ø 20 | | | **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 |

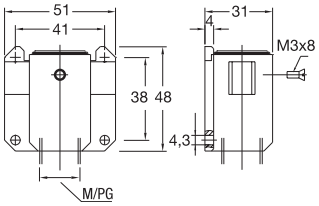
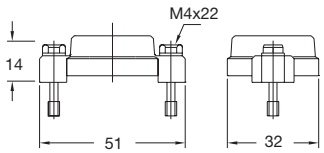


All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

## 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**

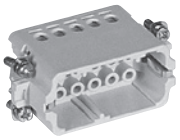
| Description | | Metr. | PG | Type | Part Number |
|---|---|---|---|---|---|
| **Surface mounted housing:** Side entry | | | | | |
| |  | | | **HIP** | |
| | | | PG11 | HIP.3/4.SG.1.11.G | 1-1102601-5 |
| | | M16 | | HIP.3/4.SG.1.M16.G | 0-1106407-1 |
| | | M20 | | HIP.3/4.SG.1.M20.G | 0-1106401-4 |
| | | | | **HIP-K** | |
| | | | PG11 | HIP-K.3/4.SG.1.11.G | 2-1102601-5 |
| | | M16 | | HIP-K.3/4.SG.1.M16.G | 0-1106407-2 |
| | | | | **EMV-K** | |
| | | | PG11 | EMV-K.3/4.SG.1.11.G | 4-1102701-5 |
| | | M16 | | EMV-K.3/4.SG.1.M16.G | 0-1106401-2 |
| | | M20 | | EMV-K.3/4.SG.1.M20.G | 0-1106401-3 |
| **Protective 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

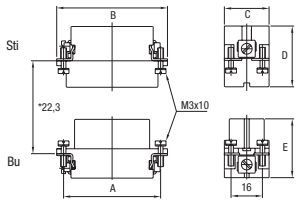
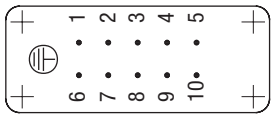
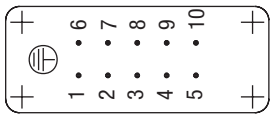
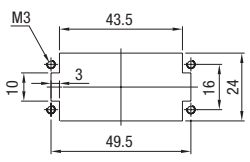
250V 16A

10+⏚

| Description | | Type | Part Number | |
|---|---|---|---|---|
| Male insert | Female insert | | Male insert | Female insert |
| Screw terminal | | | | |
| | | HA-010-M | T2010102101-000 | |
| | | HA-010-F | | T2010102201-000 |
| 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**

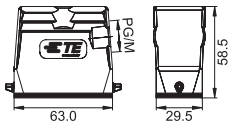
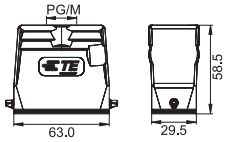
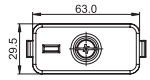
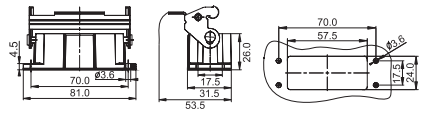
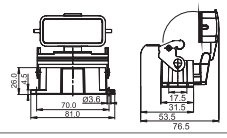
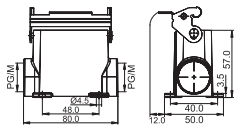
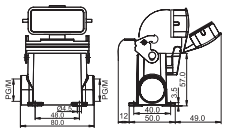
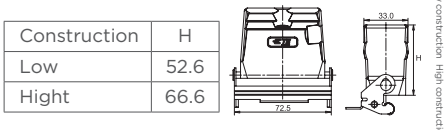
| Dimensions (mm) | Contact arrangement | | Panel cut-out |
|---|---|---|---|
| | Male insert | Female insert | |
|  |  |  |  |



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

# H10A metal hoods/housings

## POWDER-COATED, RAL 7037

| Dimensions (mm) | | Metr. | PG | Type | Part Number |
|---|---|---|---|---|---|
| Hood: Side entry | | | | | |
| |  | M20<br>M25 | PG16<br>PG21 | H10A-TS-PG16<br>H10A-TS-PG21<br>H10A-TS-M20<br>H10A-TS-M25 | T1319100116-000<br>T1319100121-000<br>T1319100120-000<br>T1319100125-000 |
| Hood: Top entry | | | | | |
| |  | M20<br>M25 | PG16<br>PG21 | H10A-TG-PG16<br>H10A-TG-PG21<br>H10A-TG-M20<br>H10A-TG-M25 | T1329100116-000<br>T1329100121-000<br>T1329100120-000<br>T1329100125-000 |
| Protection covers for hoods | | | | | |
| |  | With plastic rope | | H10A-KDT | T1019101101-000<br>T1019101201-000 |
| Bulkhead mounted | | | | | |
| |  | | | H10A-AGS<br>H10A-ADMS | T1509101000-000<br>T1519101000-000 |
| | With protection cover<br>  | | | H10A-ADMS | T1519101000-000 |
| Surface mounted: Side entry | | | | | |
| |  1 Side entry 2 Side entry | M20<br>M25<br><br><br>M20<br>M25 | PG16<br>PG21<br><br><br>PG16<br>PG21 | H10A-SGRS-PG16<br>H10A-SGRS-PG21<br>H10A-SGRS-M20<br>H10A-SGRS-M25<br>H10A-SGRS-2PG16<br>H10A-SGRS-2PG21<br>H10A-SGRS-2M20<br>H10A-SGRS-2M25 | T1619101116-000<br>T1619101121-000<br>T1619101120-000<br>T1619101125-000<br>T1619101216-000<br>T1619101221-000<br>T1619101220-000<br>T1619101225-000 |
| | With protection cover<br>  1 Side entry 2 Side entry | M20<br>M25<br><br><br>M20<br>M25 | PG16<br>PG21<br><br><br>PG16<br>PG21 | H10A-SDRMS-PG16<br>H10A-SDRMS-PG21<br>H10A-SDRMS-M20<br>H10A-SDRMS-M25<br>H10A-SDRMS-2PG16<br>H10A-SDRMS-2PG21<br>H10A-SDRMS-2M20<br>H10A-SDRMS-2M25 | T1629101116-000<br>T1629101121-000<br>T1629101120-000<br>T1629101125-000<br>T1629101216-000<br>T1629101221-000<br>T1629101220-000<br>T1629101225-000 |
| Cable-to-cable hood | | | | | |
| |  Low construction High construction<br>Construction / H<br>Low / 52.6<br>Hight / 66.6 | M20<br>M25<br><br>M25 | PG16<br><br><br>PG21 | H10A-TBFS-PG16<br>H10A-TBFS-M20<br>H10A-TBFS-M25<br>H10A-TBFHS-PG21<br>H10A-TBFHS-M25 | T1739101116-000<br>T1739101120-000<br>T1739101125-000<br>T1779101121-000<br>T1779101125-000 |

## HA.16 contact inserts

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

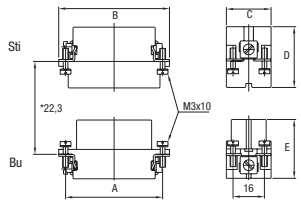
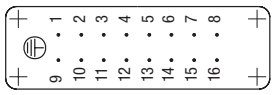
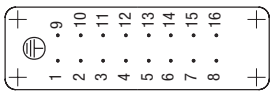
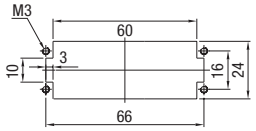
250V 16A

16+ ⏚

| Description | | Type | Part Number | |
|---|---|---|---|---|
| Male insert | Female insert | | Male insert | Female insert |
| Screw terminal | | | | |
| | | HA-016-M | T2010162101-000 | |
| | | HA-016-F | | T2010162201-000 |
| 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 | T2010164101-000 | |
| | | HA-016-FC | | T2010164201-000 |

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

**Suitable crimp contacts and crimping tools: see page 48**

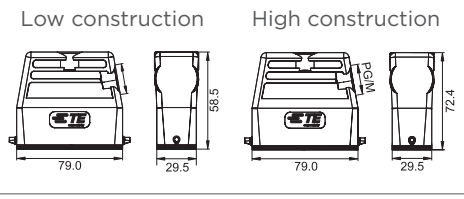
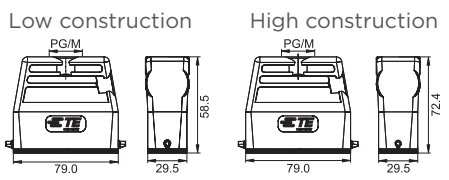
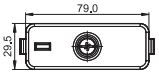
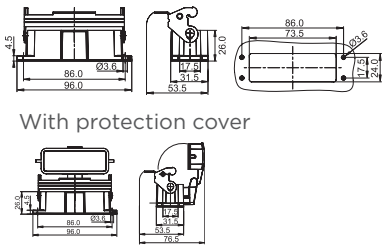
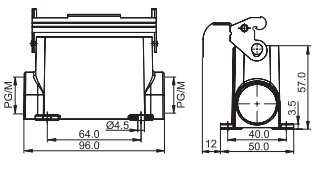
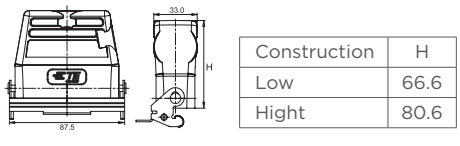
| Dimensions (mm) | Contact arrangement | | Panel cut-out |
|---|---|---|---|
| | Male insert | Female insert | |
|  |  |  |  |



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

## H16A metal hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | Metr. | PG | Type | Part Number |
|---|---|---|---|---|
| **Hood: Side entry** | | | | |
|   | M20<br>M25<br><br><br>M25 | PG16<br>PG21<br><br><br>PG21<br><br>M25 | H16A-TS-PG16<br>H16A-TS-PG21<br>H16A-TS-M20<br>H16A-TS-M25<br><br>H16A-TSH-PG21<br>H16A-TSH-M25 | T1319160116-000<br>T1319160121-000<br>T1319160120-000<br>T1319160125-000<br><br>T1339160121-000<br>T1339160125-000 |
| **Hood: Top entry** | | | | |
|   | M20<br>M25<br><br><br>M25 | PG16<br>PG21<br><br><br>PG21<br><br>M25 | H16A-TG-PG16<br>H16A-TG-PG21<br>H16A-TG-M20<br>H16A-TG-M25<br><br>H16A-TGH-PG21<br>H16A-TGH-M25 | T1329160116-000<br>T1329160121-000<br>T1329160120-000<br>T1329160125-000<br><br>T1349160121-000<br>T1349160125-000 |
| **Protection covers for hoods** | | | | |
|   | with plastic rope | | H16A-KDT | T1019161101-000<br>T1019161201-000 |
| **Bulkhead mounted** | | | | |
|   | | | H16A-AGS<br><br>H16A-ADS<br>H16A-ADMS | T1509161000-000<br><br>T1519162000-000<br>T1519161000-000 |
| **Surface mounted: Side entry** | | | | |
|   | M20<br>M25<br><br><br>M20<br>M25<br><br><br>M20<br>M25 | PG16<br>PG21<br><br><br>PG16<br>PG21<br><br><br>PG16<br>PG21<br><br><br>PG16<br>PG21 | H16A-SGRS-PG16<br>H16A-SGRS-PG21<br>H16A-SGRS-M20<br>H16A-SGRS-M25<br>H16A-SGRS-2PG16<br>H16A-SGRS-2PG21<br>H16A-SGRS-2M20<br>H16A-SGRS-2M25<br><br>H16A-SDRMS-PG16<br>H16A-SDRMS-PG21<br>H16A-SDRMS-M20<br>H16A-SDRMS-M25<br>H16A-SDRMS-2PG16<br>H16A-SDRMS-2PG21<br>H16A-SDRMS-2M20<br>H16A-SDRMS-2M25 | T1619161116-000<br>T1619161121-000<br>T1619161120-000<br>T1619161125-000<br>T1619161216-000<br>T1619161221-000<br>T1619161220-000<br>T1619161225-000<br><br>T1629161116-000<br>T1629161121-000<br>T1629161120-000<br>T1629161125-000<br>T1629161216-000<br>T1629161221-000<br>T1629161220-000<br>T1629161225-000 |
| **Cable-to-cable hood** | | | | |
|   | M20<br>M25<br><br>M25 | PG16<br><br><br>PG21<br><br>M25 | H16A-TBFS-PG16<br>H16A-TBFS-M20<br>H16A-TBFS-M25<br>H16A-TBFHS-PG21<br>H16A-TBFHS-M25 | T1739161116-000<br>T1739161120-000<br>T1739161125-000<br>T1779161121-000<br>T1779161125-000 |

| Construction | H |
|---|---|
| Low | 66.6 |
| Hight | 80.6 |

## HA.32 contact inserts

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

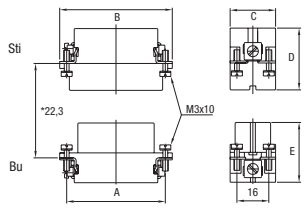
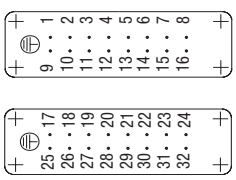
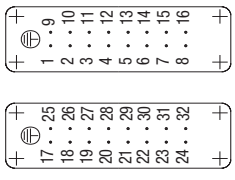
250V 16A

(2x16) 32+⏚

| Description | | Type | Part Number | |
|---|---|---|---|---|
| Male insert | Female insert | | Male insert | Female insert |
| Screw terminal | | | | |
| | | HA-016-M(1-16)<br>HA-016-M(17-32) | T2010162101-000<br>T2010322101-000 | |
| | | HA-016-F(1-16)<br>HA-016-F(17-32) | | T2010162201-000<br>T2010322201-000 |
| Spring Clamp terminal | | | | |
| | | HA.16.Sti.SC.B 1-16<br>HA.16.Sti.SC.B 17-32 | 7-1103416-1<br>7-1103416-7 | |
| | | HA.16.Bu.SC.B 1-16<br>HA.16.Bu.SC.B 17-32 | | 7-1103417-1<br>7-1103417-7 |
| Crimp terminal | | | | |
| | | HA-016-MC(1-16)<br>HA-016-MC(17-32) | T2010164101-000<br>T2010324101-000 | |
| | | HA-016-FC(1-16)<br>HA-016-FC(17-32) | | T2010164201-000<br>T2010324201-000 |

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

**Suitable crimp contacts and crimping tools: see page 48**

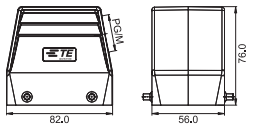
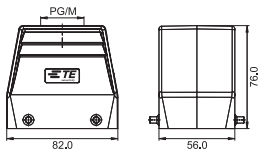
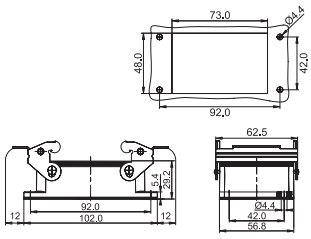
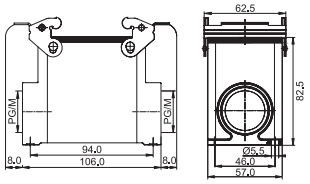
| Dimensions (mm) | Contact arrangement | |
|---|---|---|
| | Male insert | Female insert |
|  |  |  |



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

## H32A metal hoods/housings

POWDER-COATED, RAL 7037

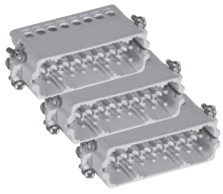
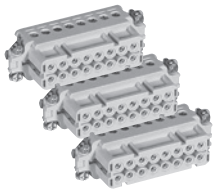
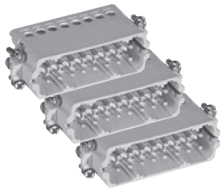
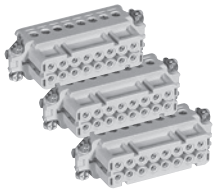
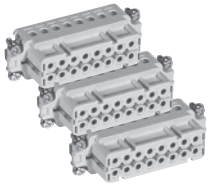
| Dimensions (mm) | | Metr. | PG | Type | Part Number |
|---|---|---|---|---|---|
| Hood: Side entry | | | | | |
| |  | <br><br><br>M25<br>M32<br>M40 | PG21<br>PG29<br>PG36 | H32A-TS-PG21<br>H32A-TS-PG29<br>H32A-TS-PG36<br>H32A-TS-M25<br>H32A-TS-M32<br>H32A-TS-M40 | T1319320121-000<br>T1319320129-000<br>T1319320136-000<br>T1319320125-000<br>T1319320132-000<br>T1319320140-000 |
| Hood: Top entry | | | | | |
| |  | <br><br><br>M25<br>M32<br>M40 | PG21<br>PG29<br>PG36 | H32A-TG-PG21<br>H32A-TG-PG29<br>H32A-TG-PG36<br>H32A-TG-M25<br>H32A-TG-M32<br>H32A-TG-M40 | T1329320121-000<br>T1329320129-000<br>T1329320136-000<br>T1329320125-000<br>T1329320132-000<br>T1329320140-000 |
| Bulkhead mounted | | | | | |
| |  | | | H32A-AG | T1419320000-000 |
| Surface mounted: Side entry | | | | | |
| |  | <br><br>M25<br>M32<br><br><br>M25<br>M32 | PG21<br>PG29<br><br><br>PG21<br>PG29<br><br> | H32A-SGR-PG21<br>H32A-SGR-PG29<br>H32A-SGR-M25<br>H32A-SGR-M32<br>H32A-SGR-2PG21<br>H32A-SGR-2PG29<br>H32A-SGR-2M25<br>H32A-SGR-2M32 | T1449320121-000<br>T1449320129-000<br>T1449320125-000<br>T1449320132-000<br>T1449320221-000<br>T1449320229-000<br>T1449320225-000<br>T1449320232-000 |

## HA.48 contact inserts

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

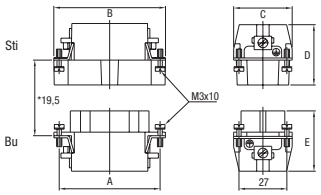
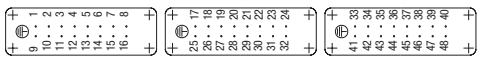
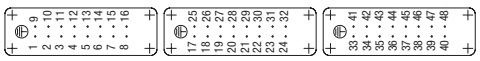
250V 16A

(3x16) 48+ ⏚

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

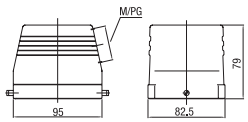
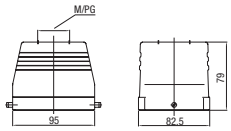
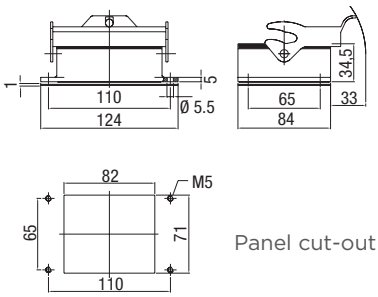
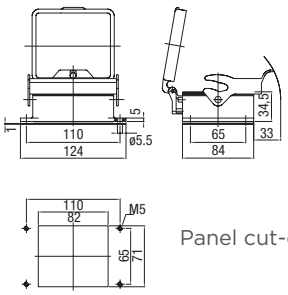


All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

## HA.48 housings

POWDER-COATED, SILVER-GREY

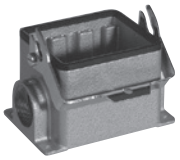
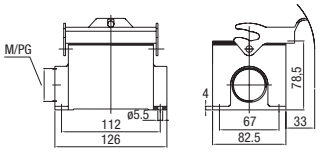
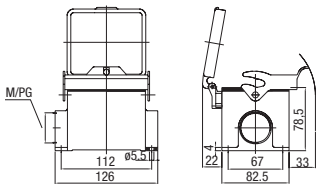
**Side clip at housing bottom** **IP 65**

| Description | | Metr. | PG | Type | Part Number |
|---|---|---|---|---|---|
| Hood: Side entry, Standard construction | | | | | |
| |   | M32 | 29 | HA.48.STS-GR.1.29.G<br>HA.48.STS-GR.1.M32.G | 1-1102172-7<br>0-1102877-1 |
| Hood: Top entry, Standard construction | | | | | |
| |   | M32 | 29 | HA.48.STO-GR.1.29.G<br>HA.48.STO-GR.1.M32.G | 1-1102175-7<br>0-1102877-2 |
| Surface mounted housing: Bottom entry | | | | | |
| |   Panel cut-out | | | HA.48.AG-LB | 1-1102176-2 |
| Surface mounted housing with covers: Bottom entry | | | | | |
| |   Panel cut-out | | | 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<br>2x29 | HA.48.SG-LB.1.29.Z<br>HA.48.SG-LB.2.29.Z | 1-1102179-2<br>1-1102181-2 |
| Surface mounted housing: Side entry, Standard construction | | | | | |
| |  | M32<br>2xM32 | 29<br>2x29 | HA.48.SGD-LB.1.29.Z<br>HA.48.SGD-LB.2.29.Z<br>HA.48.SGD-LB.1.M32.G<br>HA.48.SGD-LB.2.M32.G | 1-1102183-2<br>1-1102185-2<br>0-1102879-1<br>0-1102879-2 |



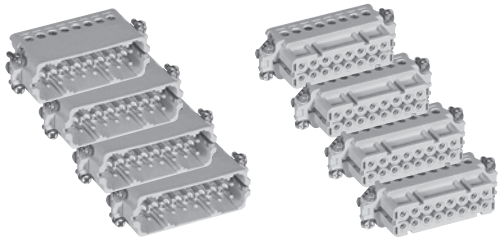
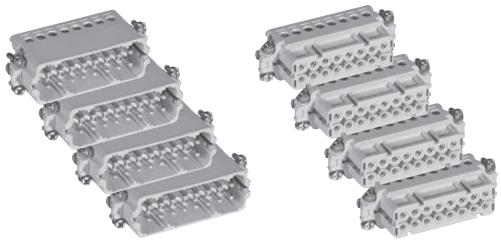
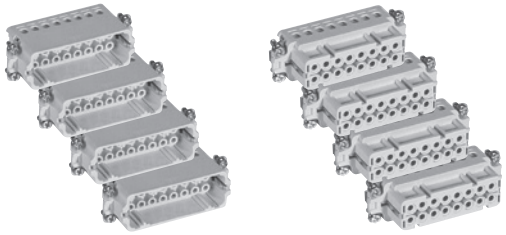
All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

# HA.64 contact inserts

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

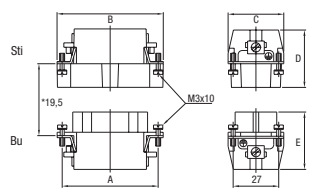
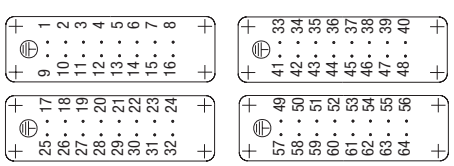
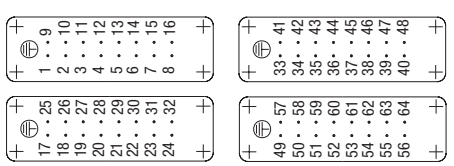
250V 16A

(4x16) 64+ ⏚

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

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

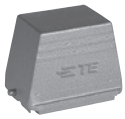
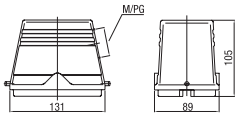
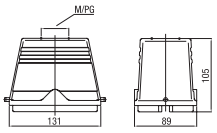
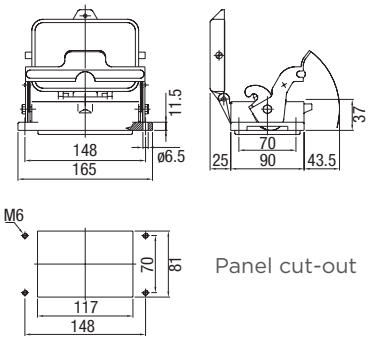
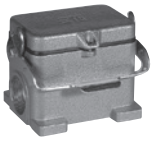
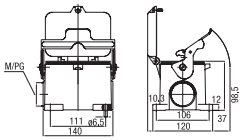
**Suitable crimp contacts and crimping tools: see page 48**

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

## HA.64 housings

POWDER-COATED, SILVER-GREY

**Side clip at housing bottom** **IP 65**

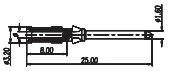
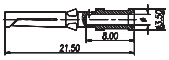
| Description | Metr. | PG | Type | Part Number |
|---|---|---|---|---|
| Hood: Side entry, Standard construction | | | | |
|    | M50 | 29<br>36<br>42 | HA.64.STS-GR.1.29.G<br>HA.64.STS-GR.1.36.G<br>HA.64.STS-GR.1.42.G<br>HA.64.STS-GR.1.M50.G | 1-1102002-7<br>1-1102005-7<br>1-1102008-7<br>0-1106480-2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



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

## Crimp contacts HN.D series

### 10A Contact

| Tech data<br>**Material:**<br>copper alloy<br>**Contact resistance:** ≤3mΩ<br>**Terminal:**<br>crimp connection<br>**CDM/Male**<br> | 10A Male crimp contacts<br>  | Wire gauge | | Stripping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|---|---|---|---|---|---|---|
| | | mm² | AWG | mm | Type | Part Number | Type | Part Number |
| | | 0.14-0.37 | 26-22 | 8.0 | CDM-0.14 | T2020001002-000 | DDM-0.14 | T2020011002-000 |
| | | 0.5 | 20 | 8.0 | CDM-0.5 | T2020001005-000 | DDM-0.5 | T2020011005-000 |
| | | 0.75 | 18 | 8.0 | CDM-0.75 | T2020001008-000 | DDM-0.75 | T2020011008-000 |
| | | 1.0 | 18 | 8.0 | CDM-1.0 | T2020001010-000 | DDM-1.0 | T2020011010-000 |
| | | 1.5 | 16 | 8.0 | CDM-1.5 | T2020001015-000 | DDM-1.5 | T2020011015-000 |
| | | 2.5 | 14 | 6.0 | CDM-2.5 | T2020001025-000 | DDM-2.5 | T2020011025-000 |
| **CDF/Female**<br> | 10A Female crimp contacts<br>  | 0.14-0.37 | 26-22 | 8.0 | CDF-0.14 | T2020002002-000 | DDF-0.14 | T2020012002-000 |
| | | 0.5 | 20 | 8.0 | CDF-0.5 | T2020002005-000 | DDF-0.5 | T2020012005-000 |
| | | 0.75 | 18 | 8.0 | CDF-0.75 | T2020002008-000 | DDF-0.75 | T2020012008-000 |
| | | 1.0 | 18 | 8.0 | CDF-1.0 | T2020002010-000 | DDF-1.0 | T2020012010-000 |
| | | 1.5 | 16 | 8.0 | CDF-1.5 | T2020002015-000 | DDF-1.5 | T2020012015-000 |
| | | 2.5 | 14 | 6.0 | CDF-2.5 | T2020002025-000 | DDF-2.5 | T2020012025-000 |

## Crimping tools HN.D series

| Description | | Type | Part Number |
|---|---|---|---|
| **Crimp tool**<br>Wire range: 0.5-4.0mm²<br>Suitable for CDM/CDF and CEM/CEF contacts | | CRIMPBOX-0.5/4 | T3100000001-000 |
| **Crimp tool**<br>Wire range: 0.14-4.0mm²<br>Suitable for CDM/CDF and CEM/CEF contacts with locator and die | | RSZ.HE-HN.D-HVT | 1-1105851-8 |
| **Removal tools**<br>Used for CDM/CDF contact series | | REMOV-HD | T3100000003-000 |
| **M3 screw driver**<br>Used for HA/HE inserts | | SCREWD-M3 | T3100000009-000 |

## Crimp contacts HE/HA series

### 16A Contact

| Tech data<br>**Material:**<br>copper alloy<br>**Contact resistance:** ≤1mΩ<br>**Terminal:**<br>crimp connection<br>**CEM/Male** | 16A Male crimp contacts | Wire gauge | | Stripping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|---|---|---|---|---|---|---|
| | | mm² | AWG | mm | Type | Part Number | Type | Part Number |
| | | 0.14-0.37 | 26-22 | 7.5 | CEM-0.3 | T2030001002-000 | DEM-0.3 | T2030011002-000 |
| | | 0.5 | 20 | 7.5 | CEM-0.5 | T2030001005-000 | DEM-0.5 | T2030011005-000 |
| | | 0.75 | 18 | 7.5 | CEM-0.75 | T2030001008-000 | DEM-0.75 | T2030011008-000 |
| | | 1.0 | 18 | 7.5 | CEM-1.0 | T2030001010-000 | DEM-1.0 | T2030011010-000 |
| | | 1.5 | 16 | 7.5 | CEM-1.5 | T2030001015-000 | DEM-1.5 | T2030011015-000 |
| | | 2.5 | 14 | 7.5 | CEM-2.5 | T2030001025-000 | DEM-2.5 | T2030011025-000 |
| | | 4.0 | 12 | 7.5 | CEM-4.0 | T2030001040-000 | DEM-4.0 | T2030011040-000 |
| **CEF/Female** | **16A Female crimp contacts** | 0.14-0.37 | 26-22 | 7.5 | CEF-0.3 | T2030002002-000 | DEF-0.3 | T2030012002-000 |
| | | 0.5 | 20 | 7.5 | CEF-0.5 | T2030002005-000 | DEF-0.5 | T2030012005-000 |
| | | 0.75 | 18 | 7.5 | CEF-0.75 | T2030002008-000 | DEF-0.75 | T2030012008-000 |
| | | 1.0 | 18 | 7.5 | CEF-1.0 | T2030002010-000 | DEF-1.0 | T2030012010-000 |
| | | 1.5 | 16 | 7.5 | CEF-1.5 | T2030002015-000 | DEF-1.5 | T2030012015-000 |
| | | 2.5 | 14 | 7.5 | CEF-2.5 | T2030002025-000 | DEF-2.5 | T2030012025-000 |
| | | 4.0 | 12 | 7.5 | CEF-4.0 | T2030002040-000 | DEF-4.0 | T2030012040-000 |

## Crimping tools HE/HA series

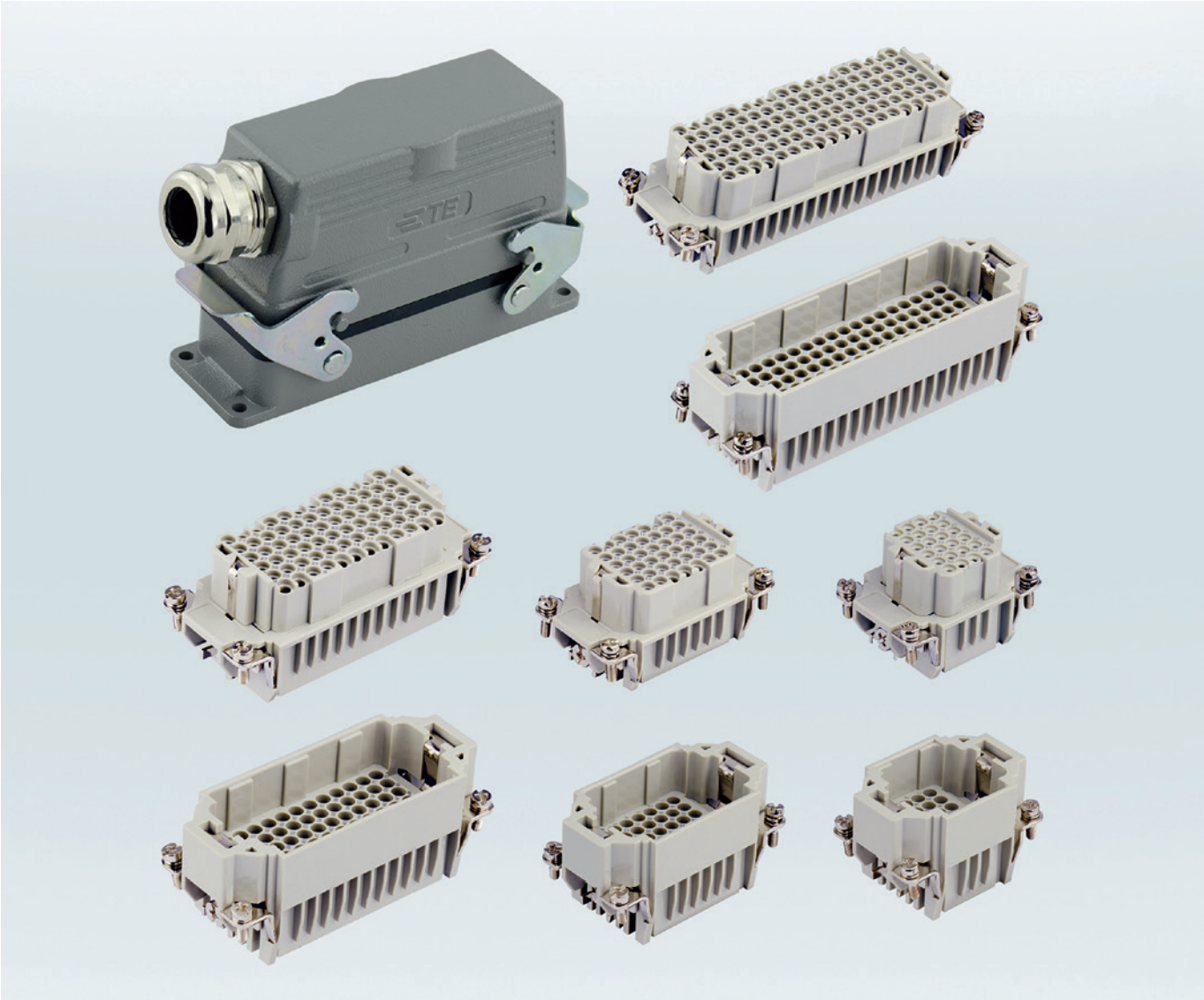
| Description | | Type | Part Number |
|---|---|---|---|
| **Crimp tool**<br>Wire range: 0.5-4.0mm²<br>Suitable for CDM/CDF and CEM/CEF contacts | | CRIMPBOX-0.5/4 | T3100000001-000 |
| **Crimp tool**<br>Wire range: 0.14-4.0mm²<br>Suitable for CDM/CDF and CEM/CEF contacts with locator and die | | RSZ.HE-HN.D-HVT | 1-1105851-8 |
| **Removal tools**<br>Used for CEM/CEF contact series | | REMOV-HEE | T3100000002-000 |
| **M3 screw driver**<br>Used for HA/HE inserts | | SCREWD-M3 | T3100000009-000 |



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

## 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



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

# 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

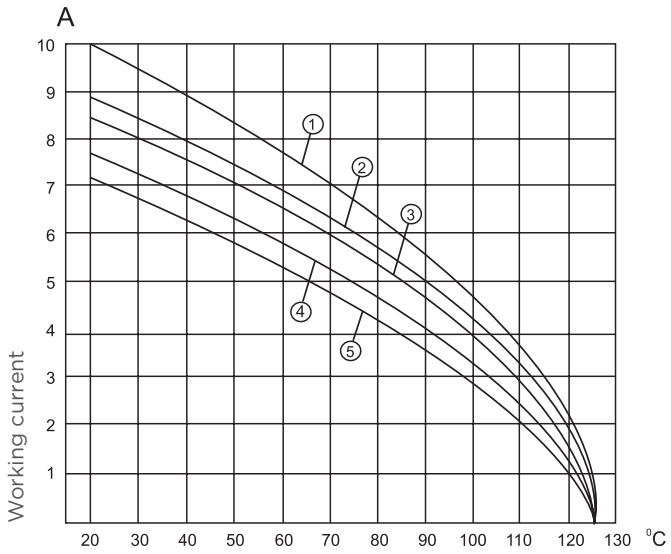
Material ..... Copper alloy
Surface ..... Hard silver-plated
..... Hard gold-plated
Contact resistance ..... ≤3mΩ
Terminal ..... Crimp terminal
..... Rolled terminal
- $mm^2$ ..... 0.15-2.5$mm^2$
- AWG ..... 26-14

## HOODS/HOUSINGS

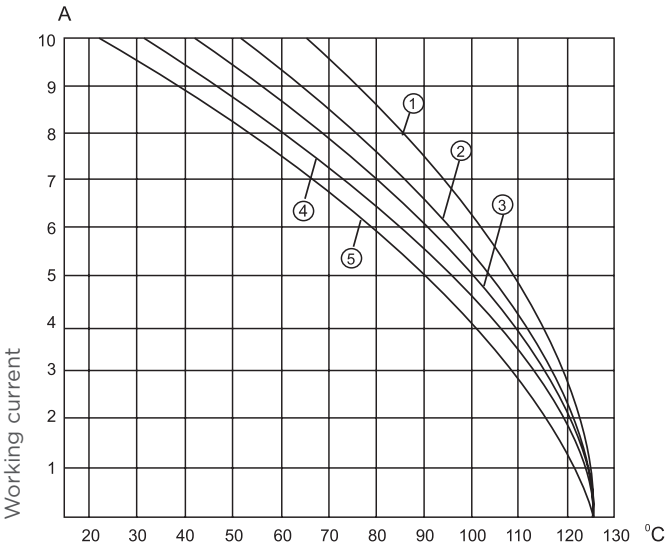
Material ..... Die cast aluminium
Surface ..... Powder-coated (RAL 7037)
Locking element ..... Stainless steel, steel-zinc plated
Temperature range ..... -40°C... +125°C
Degree of protection acc. to DIN40 050 ..... IP65

## 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.




Ambient temperature Wire gauge: 0.75 $mm^2$




Ambient temperature Wire gauge: 1.50 $mm^2$

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

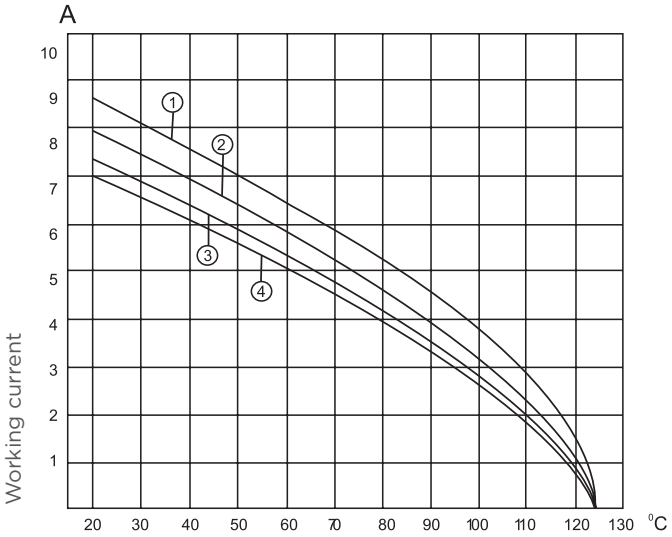
Material ..... Copper alloy
Surface ..... Hard silver-plated
..... Hard gold-plated
Contact resistance ..... ≤3mΩ
Terminal ..... Crimp terminal
..... Rolled terminal
- $mm^2$ ..... 0.14-2.5$mm^2$
- AWG ..... 26-14

### HOODS/HOUSINGS

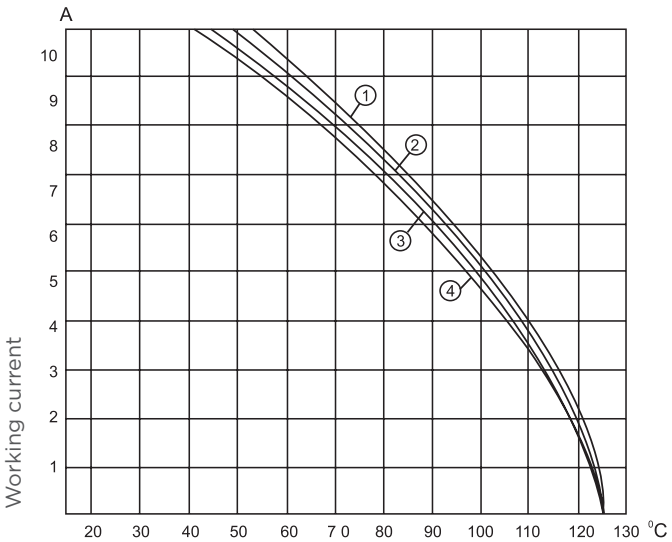
Material ..... Die cast aluminium
Surface ..... Powder-coated (RAL 7037)
Locking element ..... Stainless steel, steel-zinc plated
Temperature range ..... -40°C... +125°C
Degree of protection acc. to DIN40 050 ..... IP65

### 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.




Ambient temperature Wire gauge: 0.75 $mm^2$




Ambient temperature Wire gauge: 1.50 $mm^2$

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

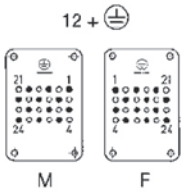
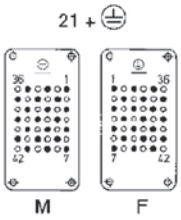
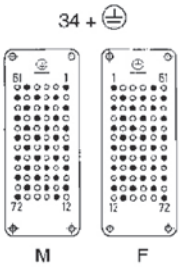
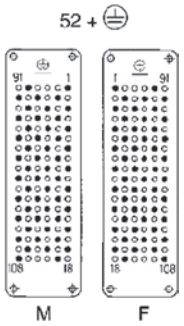
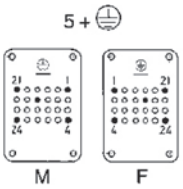
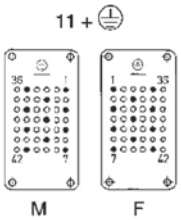
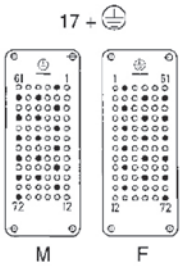
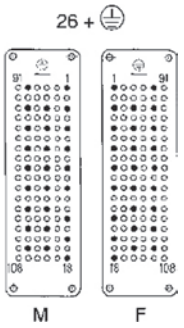
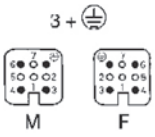
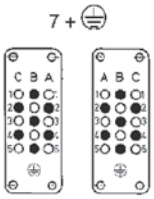
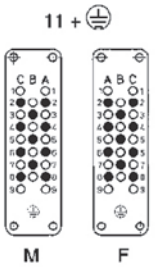
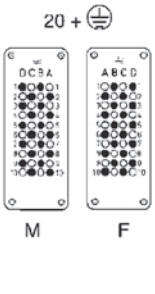
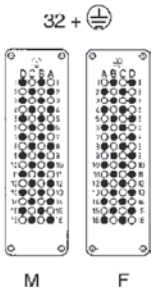


All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

## 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.

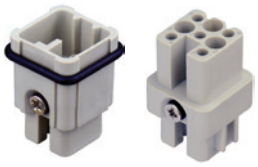
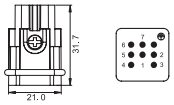
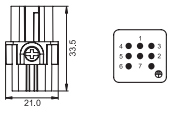
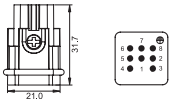
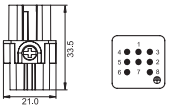
| | Contact arrangement view from termination side | | | |
|---|---|---|---|---|
| | **Working contact** | **Without contact** | **Male insert** | **Female insert** |
| Series HDD<br>380V~Insulation group C |  |  |  |  |
| 500V~Insulation group C |  |  |  |  |
| Series HD<br>500V ~ Pollution degree 3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

## HD-007/008 inserts

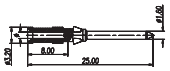
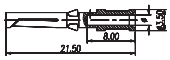
INSERTS FOR H3A HOOD/HOUSING

250V/50V 10A

7+⏚
8

| Dimensions (mm) | Contact arrangement view from termination side | Part Number | | Type |
|---|---|---|---|---|
| | | Male insert | Female insert | |
| 250V/10A  | M  | T2020072101-000 | | HD-007-M |
| | F  | | T2020072201-000 | HD-007-F |
| 50V/10A | M  | T2020082101-000 | | HD-008-M |
| | F  | | T2020082201-000 | HD-008-F |

### 10A Contact

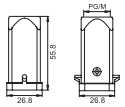
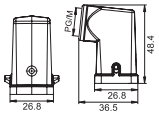
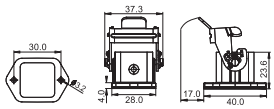
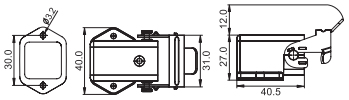
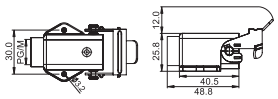
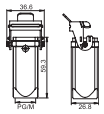
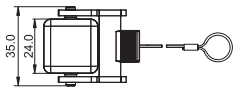
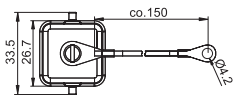
| Tech data | 10A Male crimp contacts | Wire gauge | | Strip-ping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|---|---|---|---|---|---|---|
| | | mm² | AWG | mm | Type | Part Number | Type | Part Number |
| **Material:** copper alloy **Contact resistance:** ≤3mΩ **Terminal:** crimp connection **CDM/Male** |  | 0.14-0.37 | 26-22 | 8.0 | CDM-0.14 | T2020001002-000 | DDM-0.14 | T2020011002-000 |
| | | 0.5 | 20 | 8.0 | CDM-0.5 | T2020001005-000 | DDM-0.5 | T2020011005-000 |
| | | 0.75 | 18 | 8.0 | CDM-0.75 | T2020001008-000 | DDM-0.75 | T2020011008-000 |
| | | 1.0 | 18 | 8.0 | CDM-1.0 | T2020001010-000 | DDM-1.0 | T2020011010-000 |
| | | 1.5 | 16 | 8.0 | CDM-1.5 | T2020001015-000 | DDM-1.5 | T2020011015-000 |
| | | 2.5 | 14 | 6.0 | CDM-2.5 | T2020001025-000 | DDM-2.5 | T2020011025-000 |
| **CDF/Female** | **10A Female crimp contacts**  | 0.14-0.37 | 26-22 | 8.0 | CDF-0.14 | T2020002002-000 | DDF-0.14 | T2020012002-000 |
| | | 0.5 | 20 | 8.0 | CDF-0.5 | T2020002005-000 | DDF-0.5 | T2020012005-000 |
| | | 0.75 | 18 | 8.0 | CDF-0.75 | T2020002008-000 | DDF-0.75 | T2020012008-000 |
| | | 1.0 | 18 | 8.0 | CDF-1.0 | T2020002010-000 | DDF-1.0 | T2020012010-000 |
| | | 1.5 | 16 | 8.0 | CDF-1.5 | T2020002015-000 | DDF-1.5 | T2020012015-000 |
| | | 2.5 | 14 | 6.0 | CDF-2.5 | T2020002025-000 | DDF-2.5 | T2020012025-000 |



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

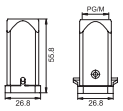
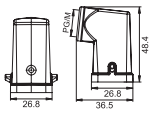
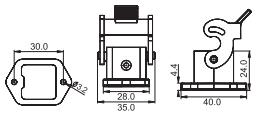
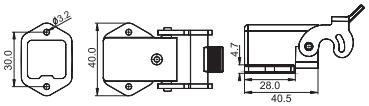
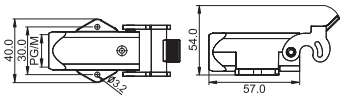
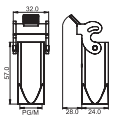
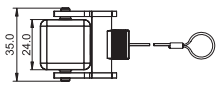
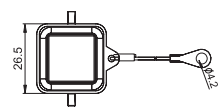
## H3A metal hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | | | Metr. | PG | Type | Part Number |
|---|---|---|---|---|---|---|
| Top entry | | | | | | |
| |  | | M20 | PG11 | H3A-MTG-PG11<br>H3A-MTG-M20 | T1329030111-000<br>T1329030120-000 |
| Side entry | | | | | | |
| |  | | M20 | PG11 | H3A-MTS-PG11<br>H3A-MTS-M20 | T1319030111-000<br>T1319030120-000 |
| Bulkhead mounting: Bottom entry | | | | | | |
| |  | | | | H3A-MAG | T1509030000-000 |
| Bulkhead mounting: Side entry | | | | | | |
| |  | | | | H3A-MAGS | T1549030000-000 |
| Surface mounting: Side entry | | | | | | |
| |  | | M16<br>M20 | PG11 | H3A-MAGSV-PG11<br>H3A-MAGSV-M16<br>H3A-MAGSV-M20 | T1619030111-000<br>T1619030116-000<br>T1619030120-000 |
| Cable-to-cable hood: | | | | | | |
| |  | | M20 | PG11 | H3A-MTGVB-PG11<br>H3A-MTGVB-M20 | T1739030111-000<br>T1739030120-000 |
| Protection covers for hoods (thermoplastic) | | | | | | |
| | Note: For mounted male insert and hood |  | | | H3A-KDTP | T1010031100-000 |
| Metal protection covers for hoods | | | | | | |
| | Note: For mounted female insert and hood |  | | | H3A-KDB | T1010033100-000 |

# H3A thermoplastic hoods/housings

## THERMOPLASTIC HOODS, HOUSINGS

| Dimensions (mm) | | | Metr. | PG | Type | Part Number |
|---|---|---|---|---|---|---|
| Top entry | | | | | | |
| |  | | M20 | PG11 | H3A-TG-PG11<br>H3A-TG-M20 | T1329031111-000<br>T1329031120-000 |
| Side entry | | | | | | |
| |  | | M20 | PG11 | H3A-TS-PG11<br>H3A-TS-M20 | T1319031111-000<br>T1319031120-000 |
| Bulkhead mounting: Bottom entry | | | | | | |
| |  | | | | H3A-AG | T1509031100-000 |
| Bulkhead mounting: Side entry | | | | | | |
| |  | | | | H3A-AGS | T1509031111-000 |
| Surface mounting: Side entry | | | | | | |
| |  | | M16<br>M20 | PG11 | H3A-AGSV-PG11<br>H3A-AGSV-M16<br>H3A-AGSV-M20 | T1619031111-000<br>T1619031116-000<br>T1619031120-000 |
| Cable-to-cable hood: | | | | | | |
| |  | | M20 | PG11 | H3A-TGVB-PG11<br>H3A-TGVB-M20 | T1739031111-000<br>T1739031120-000 |
| Protection covers for hoods (thermoplastic) | | | | | | |
| | Note: For mounted male insert and hood |  | | | H3A-KDTP | T1010031100-000 |
| Protection covers for hoods | | | | | | |
| <br>White Grey | Note: For mounted female insert and hood |  | | | H3A-KDBP (White)<br>H3A-KDBPG (Grey) | T1010032100-000<br>T1010032300-000 |
| Covers without sealing type | | | | | | |
| | | | | | H3A-KDBP (White)<br>H3A-KDBP (Grey) | T1010033200-000<br>T1010032200-000 |

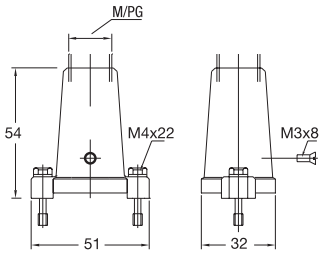
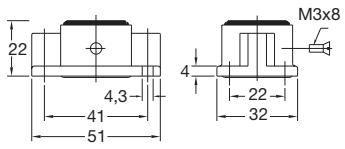
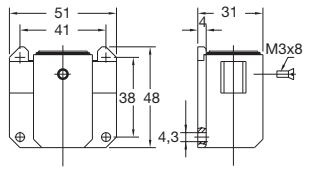


All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

## 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

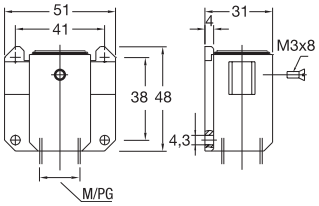
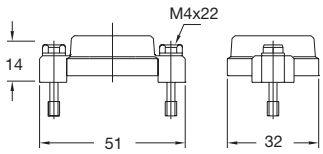
**Screw lock on hood** **IP 68 / IP 69 K**

| Description | Metr. | PG | Type | Part Number |
|---|---|---|---|---|
| **Hood:** Top entry | | | | |
|   | | | **HIP** | |
| | | 11 | HIP.3/4.ST0.1.11.G | 1-1102600-5 |
| | M16 | | HIP.3/4.ST0.1.M16.G | 0-1106408-1 |
| | | | **HIP-K** | |
| | | 11 | HIP-K.3/4.ST0.1.11.G | 2-1102600-5 |
| | M16 | | HIP-K.3/4.ST0.1.M16.G | 0-1106408-2 |
| | M20 | | HIP-K.3/4.ST0.1.M20.G | 0-1106408-3 |
| | | | **EMV-K** | |
| | | 11 | EMV-K.3/4.ST0.1.11.G | 4-1102700-5 |
| | M16 | | EMV-K.3/4.ST0.1.M16.G | 0-1106402-2 |
| | M20 | | EMV-K.3/4.ST0.1.M20.G | 0-1106402-3 |
| **Surface mounted housing:** Bottom entry | | | | |
|   Panel cut-out 21 x 21 | | | **HIP** HIP.3/4.AG<br>**HIP-K** HIP-K.3/4.AG<br>**EMV-K** EMV-K.3/4.AG | 1-1102603-5<br>2-1102603-5<br>4-1102703-5 |
| **Surface mounted housing:** Bottom entry (by panel cut-out) | | | | |
|   Panel cut-out ø 20 | | | **HIP** HIP.3/4.SGF<br>**HIP-K** HIP-K.3/4.SGF<br>**EMV-K** EMV-K.3/4.SGF | 1-1102602-5<br>2-1102602-5<br>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 | | | | | |
| |  | | | **HIP** | |
| | | | PG11 | HIP.3/4.SG.1.11.G | 1-1102601-5 |
| | | M16 | | HIP.3/4.SG.1.M16.G | 0-1106407-1 |
| | | M20 | | HIP.3/4.SG.1.M20.G | 0-1106401-4 |
| | | | | **HIP-K** | |
| | | | PG11 | HIP-K.3/4.SG.1.11.G | 2-1102601-5 |
| | | M16 | | HIP-K.3/4.SG.1.M16.G | 0-1106407-2 |
| | | | | **EMV-K** | |
| | | | PG11 | EMV-K.3/4.SG.1.11.G | 4-1102701-5 |
| | | M16 | | EMV-K.3/4.SG.1.M16.G | 0-1106401-2 |
| | | M20 | | EMV-K.3/4.SG.1.M20.G | 0-1106401-3 |
| **Protective 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 |

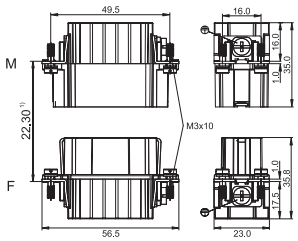
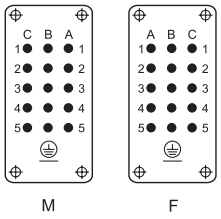
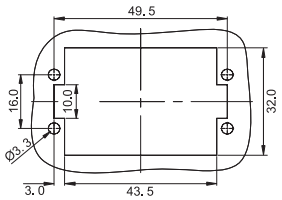


All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

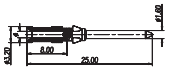
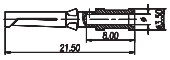
## HD-015 inserts

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 | T2020152101-000 | |
| | | HD-015-F | | T2020152201-000 |
| Contact arrangement view from termination side | Panel cut out for inserts for use without hoods/housings | | | |
|   |   | | | |

### 10A Contact

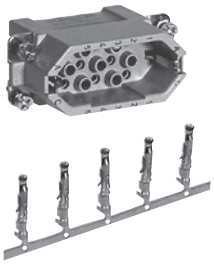
| Tech data<br>**Material:**<br>copper alloy<br>**Contact resistance:** ≤3mΩ<br>**Terminal:**<br>crimp connection | 10A Male crimp contacts | Wire gauge | | Stripping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|---|---|---|---|---|---|---|
| | | mm² | AWG | mm | Type | Part Number | Type | Part Number |
| **CDM/Male** |  | 0.14-0.37 | 26-22 | 8.0 | CDM-0.14 | T2020001002-000 | DDM-0.14 | T2020011002-000 |
| | | 0.5 | 20 | 8.0 | CDM-0.5 | T2020001005-000 | DDM-0.5 | T2020011005-000 |
| | | 0.75 | 18 | 8.0 | CDM-0.75 | T2020001008-000 | DDM-0.75 | T2020011008-000 |
| | | 1.0 | 18 | 8.0 | CDM-1.0 | T2020001010-000 | DDM-1.0 | T2020011010-000 |
| | | 1.5 | 16 | 8.0 | CDM-1.5 | T2020001015-000 | DDM-1.5 | T2020011015-000 |
| | | 2.5 | 14 | 6.0 | CDM-2.5 | T2020001025-000 | DDM-2.5 | T2020011025-000 |
| **CDF/Female** | 10A Female crimp contacts  | 0.14-0.37 | 26-22 | 8.0 | CDF-0.14 | T2020002002-000 | DDF-0.14 | T2020012002-000 |
| | | 0.5 | 20 | 8.0 | CDF-0.5 | T2020002005-000 | DDF-0.5 | T2020012005-000 |
| | | 0.75 | 18 | 8.0 | CDF-0.75 | T2020002008-000 | DDF-0.75 | T2020012008-000 |
| | | 1.0 | 18 | 8.0 | CDF-1.0 | T2020002010-000 | DDF-1.0 | T2020012010-000 |
| | | 1.5 | 16 | 8.0 | CDF-1.5 | T2020002015-000 | DDF-1.5 | T2020012015-000 |
| | | 2.5 | 14 | 6.0 | CDF-2.5 | T2020002025-000 | DDF-2.5 | T2020012025-000 |

## HD-015 inserts

INSERTS FOR H10A HOOD/HOUSING

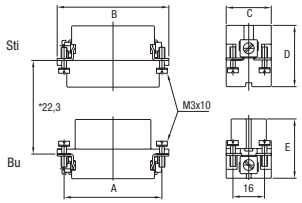
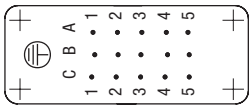
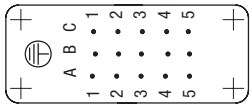
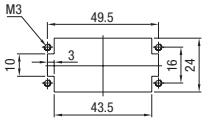
250V 10A

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**

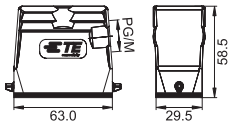
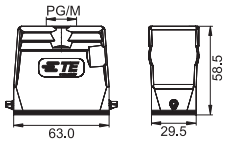
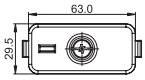
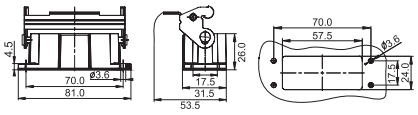
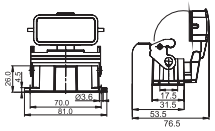
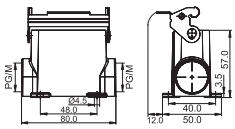
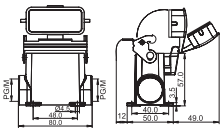
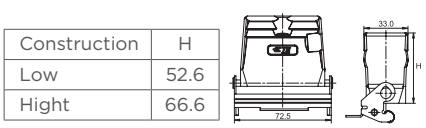
| Dimensions (mm) | Contact arrangement | | Panel cut-out |
|---|---|---|---|
| | Male insert | Female insert | |
|   |   |   |   |



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

# H10A metal hoods/housings

## POWDER-COATED, RAL 7037

| Dimensions (mm) | | Metr. | PG | Type | Part Number |
|---|---|---|---|---|---|
| Hood: Side entry | | | | | |
| |   | M20<br>M25 | PG16<br>PG21 | H10A-TS-PG16<br>H10A-TS-PG21<br>H10A-TS-M20<br>H10A-TS-M25 | T1319100116-000<br>T1319100121-000<br>T1319100120-000<br>T1319100125-000 |
| Hood: Top entry | | | | | |
| |   | M20<br>M25 | PG16<br>PG21 | H10A-TG-PG16<br>H10A-TG-PG21<br>H10A-TG-M20<br>H10A-TG-M25 | T1329100116-000<br>T1329100121-000<br>T1329100120-000<br>T1329100125-000 |
| Protection covers for hoods | | | | | |
| |   | With plastic rope | | H10A-KDT | T1019101101-000<br>T1019101201-000 |
| Bulkhead mounted | | | | | |
| |   | | | H10A-AGS<br>H10A-ADMS | T1509101000-000<br>T1519101000-000 |
| | With protection cover   | | | H10A-ADMS | T1519101000-000 |
| Surface mounted: Side entry | | | | | |
| |   | M20<br>M25<br><br><br>M20<br>M25 | PG16<br>PG21<br><br><br>PG16<br>PG21 | H10A-SGRS-PG16<br>H10A-SGRS-PG21<br>H10A-SGRS-M20<br>H10A-SGRS-M25<br>H10A-SGRS-2PG16<br>H10A-SGRS-2PG21<br>H10A-SGRS-2M20<br>H10A-SGRS-2M25 | T1619101116-000<br>T1619101121-000<br>T1619101120-000<br>T1619101125-000<br>T1619101216-000<br>T1619101221-000<br>T1619101220-000<br>T1619101225-000 |
| | With protection cover   | M20<br>M25<br><br><br>M20<br>M25 | PG16<br>PG21<br><br><br>PG16<br>PG21 | H10A-SDRMS-PG16<br>H10A-SDRMS-PG21<br>H10A-SDRMS-M20<br>H10A-SDRMS-M25<br>H10A-SDRMS-2PG16<br>H10A-SDRMS-2PG21<br>H10A-SDRMS-2M20<br>H10A-SDRMS-2M25 | T1629101116-000<br>T1629101121-000<br>T1629101120-000<br>T1629101125-000<br>T1629101216-000<br>T1629101221-000<br>T1629101220-000<br>T1629101225-000 |
| Cable-to-cable hood | | | | | |
| |   | M20<br>M25<br><br>M25 | PG16<br><br>PG21 | H10A-TBFS-PG16<br>H10A-TBFS-M20<br>H10A-TBFS-M25<br>H10A-TBFHS-PG21<br>H10A-TBFHS-M25 | T1739101116-000<br>T1739101120-000<br>T1739101125-000<br>T1779101121-000<br>T1779101125-000 |

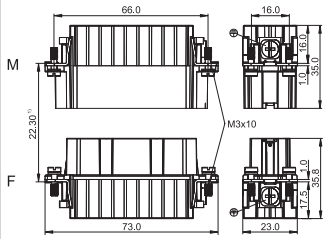
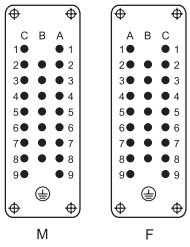
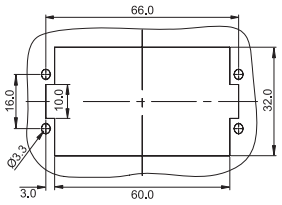
| Construction | H |
|---|---|
| Low | 52.6 |
| Hight | 66.6 |

## HD-025 inserts

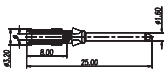
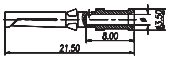
INSERTS FOR H16A HOOD/HOUSING

250V 10A

25+⏚ (machined contacts)

| Dimensions (mm) | | Type | Part Number | |
|---|---|---|---|---|
| | | | Male insert | Female insert |
| Crimp terminal (order crimp contacts separately) | | | | |
| |  | HD-025-M | T2020252101-000 | |
| | | HD-025-F | | T2020252201-000 |
| 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 | |
|---|---|---|---|---|---|---|---|---|
| **Material:** copper alloy<br>**Contact resistance:** ≤3mΩ<br>**Terminal:** crimp connection<br>**CDM/Male** |  | mm² | AWG | mm | Type | Part Number | Type | Part Number |
| | | 0.14-0.37 | 26-22 | 8.0 | CDM-0.14 | T2020001002-000 | DDM-0.14 | T2020011002-000 |
| | | 0.5 | 20 | 8.0 | CDM-0.5 | T2020001005-000 | DDM-0.5 | T2020011005-000 |
| | | 0.75 | 18 | 8.0 | CDM-0.75 | T2020001008-000 | DDM-0.75 | T2020011008-000 |
| | | 1.0 | 18 | 8.0 | CDM-1.0 | T2020001010-000 | DDM-1.0 | T2020011010-000 |
| | | 1.5 | 16 | 8.0 | CDM-1.5 | T2020001015-000 | DDM-1.5 | T2020011015-000 |
| | | 2.5 | 14 | 6.0 | CDM-2.5 | T2020001025-000 | DDM-2.5 | T2020011025-000 |
| **CDF/Female** | **10A Female crimp contacts**  | 0.14-0.37 | 26-22 | 8.0 | CDF-0.14 | T2020002002-000 | DDF-0.14 | T2020012002-000 |
| | | 0.5 | 20 | 8.0 | CDF-0.5 | T2020002005-000 | DDF-0.5 | T2020012005-000 |
| | | 0.75 | 18 | 8.0 | CDF-0.75 | T2020002008-000 | DDF-0.75 | T2020012008-000 |
| | | 1.0 | 18 | 8.0 | CDF-1.0 | T2020002010-000 | DDF-1.0 | T2020012010-000 |
| | | 1.5 | 16 | 8.0 | CDF-1.5 | T2020002015-000 | DDF-1.5 | T2020012015-000 |
| | | 2.5 | 14 | 6.0 | CDF-2.5 | T2020002025-000 | DDF-2.5 | T2020012025-000 |



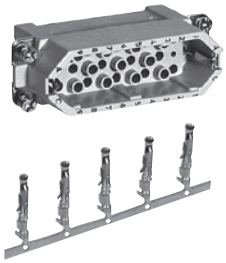
All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

## HD-025 inserts

INSERTS FOR H16A HOOD/HOUSING

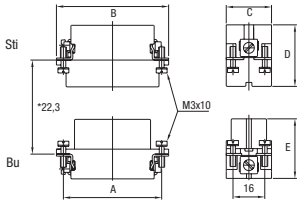
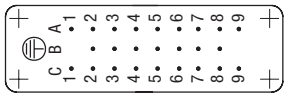
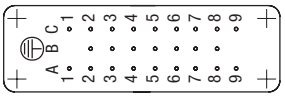
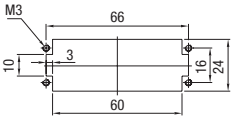
250V 10A

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 |

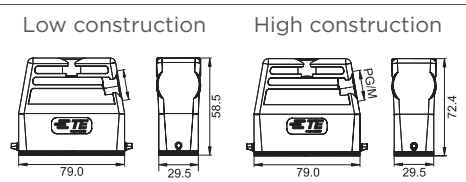
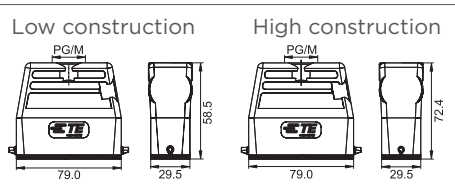
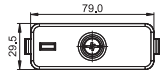
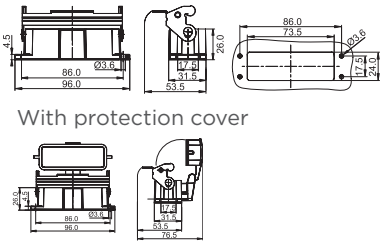
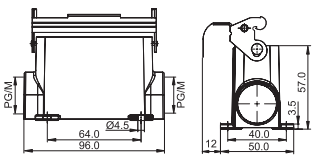
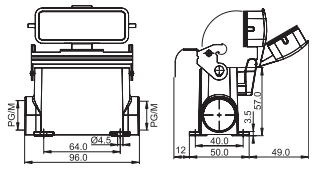
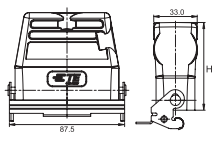
| Dimensions | A | B | C | D | E |
|---|---|---|---|---|---|
| mm | 66 | 73 | 23 | 35 | 35 |

**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** | | | | |
|   | M20<br>M25<br><br><br>M25 | PG16<br>PG21<br><br><br>PG21<br><br>M25 | H16A-TS-PG16<br>H16A-TS-PG21<br>H16A-TS-M20<br>H16A-TS-M25<br><br>H16A-TSH-PG21<br>H16A-TSH-M25 | T1319160116-000<br>T1319160121-000<br>T1319160120-000<br>T1319160125-000<br><br>T1339160121-000<br>T1339160125-000 |
| **Hood: Top entry** | | | | |
|   | M20<br>M25<br><br><br>M25 | PG16<br>PG21<br><br><br>PG21<br><br>M25 | H16A-TG-PG16<br>H16A-TG-PG21<br>H16A-TG-M20<br>H16A-TG-M25<br><br>H16A-TGH-PG21<br>H16A-TGH-M25 | T1329160116-000<br>T1329160121-000<br>T1329160120-000<br>T1329160125-000<br><br>T1349160121-000<br>T1349160125-000 |
| **Protection covers for hoods** | | | | |
|   | with plastic rope | | H16A-KDT | T1019161101-000<br>T1019161201-000 |
| **Bulkhead mounted** | | | | |
|   | | | H16A-AGS<br><br>H16A-ADS<br>H16A-ADMS | T1509161000-000<br><br>T1519162000-000<br>T1519161000-000 |
| **Surface mounted: Side entry** | | | | |
|    | M20<br>M25<br><br><br>M20<br>M25<br><br><br>M20<br>M25 | PG16<br>PG21<br><br><br>PG16<br>PG21<br><br><br>PG16<br>PG21<br><br><br>PG16<br>PG21 | H16A-SGRS-PG16<br>H16A-SGRS-PG21<br>H16A-SGRS-M20<br>H16A-SGRS-M25<br>H16A-SGRS-2PG16<br>H16A-SGRS-2PG21<br>H16A-SGRS-2M20<br>H16A-SGRS-2M25<br><br>H16A-SDRMS-PG16<br>H16A-SDRMS-PG21<br>H16A-SDRMS-M20<br>H16A-SDRMS-M25<br>H16A-SDRMS-2PG16<br>H16A-SDRMS-2PG21<br>H16A-SDRMS-2M20<br>H16A-SDRMS-2M25 | T1619161116-000<br>T1619161121-000<br>T1619161120-000<br>T1619161125-000<br>T1619161216-000<br>T1619161221-000<br>T1619161220-000<br>T1619161225-000<br><br>T1629161116-000<br>T1629161121-000<br>T1629161120-000<br>T1629161125-000<br>T1629161216-000<br>T1629161221-000<br>T1629161220-000<br>T1629161225-000 |
| **Cable-to-cable hood** | | | | |
|   | M20<br>M25<br><br>M25 | PG16<br><br><br>PG21<br><br>M25 | H16A-TBFS-PG16<br>H16A-TBFS-M20<br>H16A-TBFS-M25<br>H16A-TBFHS-PG21<br>H16A-TBFHS-M25 | T1739161116-000<br>T1739161120-000<br>T1739161125-000<br>T1779161121-000<br>T1779161125-000 |

| Construction | H |
|---|---|
| Low | 66.6 |
| Hight | 80.6 |

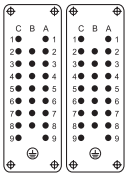
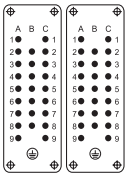


All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

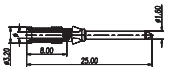
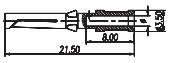
## HD-050 inserts

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) | | | | |
| |  M | HD-025-M(1-25)<br>HD-025-M(26-50) | T2020252101-000<br>T2020502101-000 | |
| |  F | HD-025-F(1-25)<br>HD-025-F(26-50) | | T2020252201-000<br>T2020502201-000 |

### 10A Contact

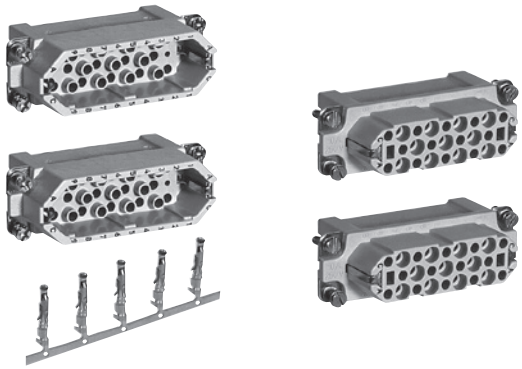
| Tech data<br>**Material:**<br>copper alloy<br>**Contact resistance:** ≤3mΩ<br>**Terminal:**<br>crimp connection<br>**CDM/Male**<br> | 10A Male crimp contacts<br>  | Wire gauge | | Stripping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|---|---|---|---|---|---|---|
| | | mm² | AWG | mm | Type | Part Number | Type | Part Number |
| | | 0.14-0.37 | 26-22 | 8.0 | CDM-0.14 | T2020001002-000 | DDM-0.14 | T2020011002-000 |
| | | 0.5 | 20 | 8.0 | CDM-0.5 | T2020001005-000 | DDM-0.5 | T2020011005-000 |
| | | 0.75 | 18 | 8.0 | CDM-0.75 | T2020001008-000 | DDM-0.75 | T2020011008-000 |
| | | 1.0 | 18 | 8.0 | CDM-1.0 | T2020001010-000 | DDM-1.0 | T2020011010-000 |
| | | 1.5 | 16 | 8.0 | CDM-1.5 | T2020001015-000 | DDM-1.5 | T2020011015-000 |
| | | 2.5 | 14 | 6.0 | CDM-2.5 | T2020001025-000 | DDM-2.5 | T2020011025-000 |
| **CDF/Female**<br> | 10A Female crimp contacts<br>  | 0.14-0.37 | 26-22 | 8.0 | CDF-0.14 | T2020002002-000 | DDF-0.14 | T2020012002-000 |
| | | 0.5 | 20 | 8.0 | CDF-0.5 | T2020002005-000 | DDF-0.5 | T2020012005-000 |
| | | 0.75 | 18 | 8.0 | CDF-0.75 | T2020002008-000 | DDF-0.75 | T2020012008-000 |
| | | 1.0 | 18 | 8.0 | CDF-1.0 | T2020002010-000 | DDF-1.0 | T2020012010-000 |
| | | 1.5 | 16 | 8.0 | CDF-1.5 | T2020002015-000 | DDF-1.5 | T2020012015-000 |
| | | 2.5 | 14 | 6.0 | CDF-2.5 | T2020002025-000 | DDF-2.5 | T2020012025-000 |

## HD-050 inserts

INSERTS FOR H32A HOOD/HOUSING

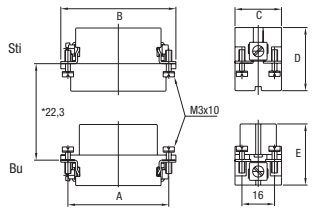
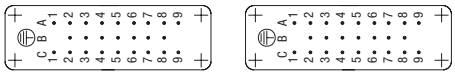
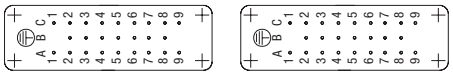
250V 10A

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 |
|  |  |  |

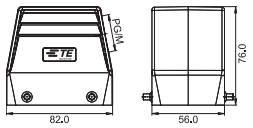
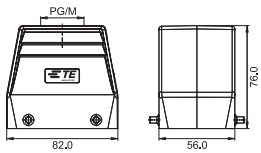
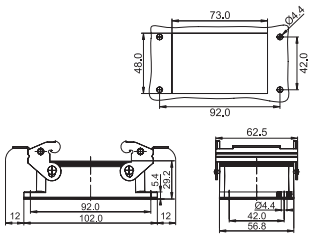
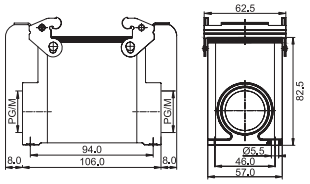




All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

## H32A metal hoods/housings

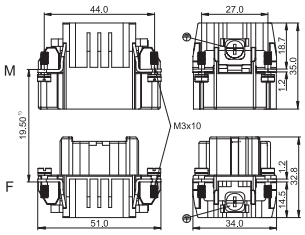
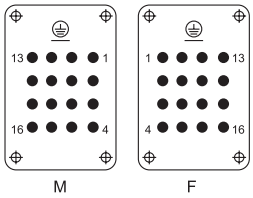
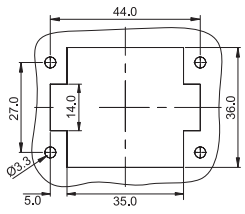
POWDER-COATED, RAL 7037

| Dimensions (mm) | | Metr. | PG | Type | Part Number |
|---|---|---|---|---|---|
| Hood: Side entry | | | | | |
| |  | <br><br><br>M25<br>M32<br>M40 | PG21<br>PG29<br>PG36 | H32A-TS-PG21<br>H32A-TS-PG29<br>H32A-TS-PG36<br>H32A-TS-M25<br>H32A-TS-M32<br>H32A-TS-M40 | T1319320121-000<br>T1319320129-000<br>T1319320136-000<br>T1319320125-000<br>T1319320132-000<br>T1319320140-000 |
| Hood: Top entry | | | | | |
| |  | <br><br><br>M25<br>M32<br>M40 | PG21<br>PG29<br>PG36 | H32A-TG-PG21<br>H32A-TG-PG29<br>H32A-TG-PG36<br>H32A-TG-M25<br>H32A-TG-M32<br>H32A-TG-M40 | T1329320121-000<br>T1329320129-000<br>T1329320136-000<br>T1329320125-000<br>T1329320132-000<br>T1329320140-000 |
| Bulkhead mounted | | | | | |
| |  | | | H32A-AG | T1419320000-000 |
| Surface mounted: Side entry | | | | | |
| |  | <br><br>M25<br>M32<br><br><br>M25<br>M32 | PG21<br>PG29<br><br><br>PG21<br>PG29<br><br> | H32A-SGR-PG21<br>H32A-SGR-PG29<br>H32A-SGR-M25<br>H32A-SGR-M32<br>H32A-SGR-2PG21<br>H32A-SGR-2PG29<br>H32A-SGR-2M25<br>H32A-SGR-2M32 | T1449320121-000<br>T1449320129-000<br>T1449320125-000<br>T1449320132-000<br>T1449320221-000<br>T1449320229-000<br>T1449320225-000<br>T1449320232-000 |

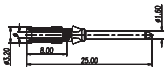
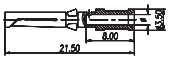
## HDD-016 inserts

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 | T2030162101-000 | |
| | | HDD-016-F | | T2030162201-000 |
| 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 | |
|---|---|---|---|---|---|---|---|---|
| | | mm² | AWG | mm | 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 | T2020001002-000 | DDM-0.14 | T2020011002-000 |
| | | 0.5 | 20 | 8.0 | CDM-0.5 | T2020001005-000 | DDM-0.5 | T2020011005-000 |
| | | 0.75 | 18 | 8.0 | CDM-0.75 | T2020001008-000 | DDM-0.75 | T2020011008-000 |
| | | 1.0 | 18 | 8.0 | CDM-1.0 | T2020001010-000 | DDM-1.0 | T2020011010-000 |
| | | 1.5 | 16 | 8.0 | CDM-1.5 | T2020001015-000 | DDM-1.5 | T2020011015-000 |
| | | 2.5 | 14 | 6.0 | CDM-2.5 | T2020001025-000 | DDM-2.5 | T2020011025-000 |
| **CDF/Female** | **10A Female crimp contacts**  | 0.14-0.37 | 26-22 | 8.0 | CDF-0.14 | T2020002002-000 | DDF-0.14 | T2020012002-000 |
| | | 0.5 | 20 | 8.0 | CDF-0.5 | T2020002005-000 | DDF-0.5 | T2020012005-000 |
| | | 0.75 | 18 | 8.0 | CDF-0.75 | T2020002008-000 | DDF-0.75 | T2020012008-000 |
| | | 1.0 | 18 | 8.0 | CDF-1.0 | T2020002010-000 | DDF-1.0 | T2020012010-000 |
| | | 1.5 | 16 | 8.0 | CDF-1.5 | T2020002015-000 | DDF-1.5 | T2020012015-000 |
| | | 2.5 | 14 | 6.0 | CDF-2.5 | T2020002025-000 | DDF-2.5 | T2020012025-000 |

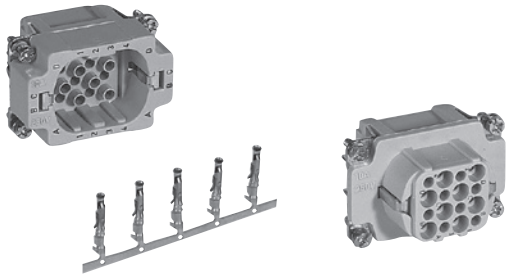


All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

## HDD-016 inserts

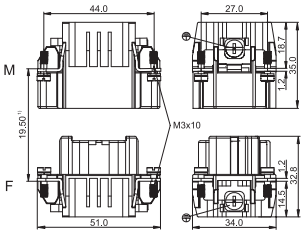
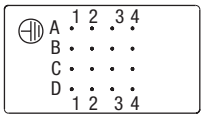
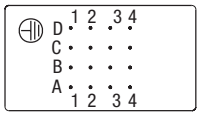
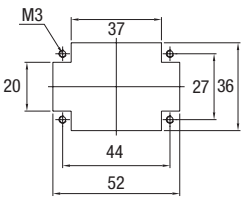
INSERTS FOR H6B HOOD/HOUSING 250V 10A

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 |

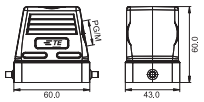
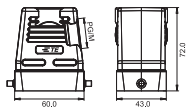
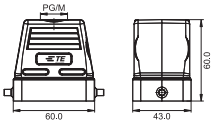
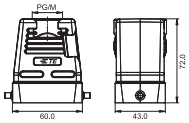
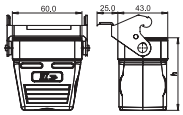
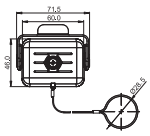
| Dimensions | A | B | C | D | E |
|---|---|---|---|---|---|
| mm | 44 | 51 | 33 | 35 | 35 |

**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

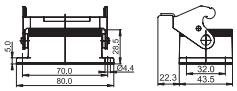
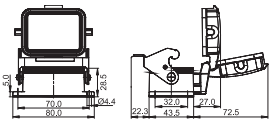
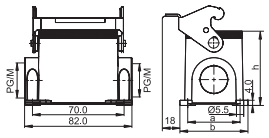
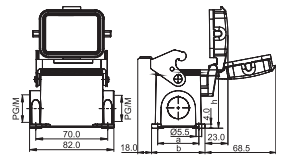
| Dimensions (mm) | | Metr. | PG | Type | Part Number |
|---|---|---|---|---|---|
| Hood: Side entry | | | | | |
| | Low construction  | M20<br>M25 | PG16<br>PG21 | H6B-TS-PG16<br>H6B-TS-PG21<br>H6B-TS-M20<br>H6B-TS-M25 | T1310060116-000<br>T1310060121-000<br>T1310060120-000<br>T1310060125-000 |
| | High construction  | M20<br>M25<br>M32 | PG21<br>PG29 | H6B-TSH-PG21<br>H6B-TSH-PG29<br>H6B-TSH-M20<br>H6B-TSH-M25<br>H6B-TSH-M32 | T1330060121-000<br>T1330060129-000<br>T1330060120-000<br>T1330060125-000<br>T1330060132-000 |
| Hood: Top entry | | | | | |
| | Low construction  | M20<br>M25 | PG16<br>PG21 | H6B-TG-PG16<br>H6B-TG-PG21<br>H6B-TG-M20<br>H6B-TG-M25 | T1320060116-000<br>T1320060121-000<br>T1320060120-000<br>T1320060125-000 |
| | High construction  | M20<br>M25<br>M32 | PG21<br>PG29 | H6B-TGH-PG21<br>H6B-TGH-PG29<br>H6B-TGH-M20<br>H6B-TGH-M25<br>H6B-TGH-M32 | T1340060121-000<br>T1340060129-000<br>T1340060120-000<br>T1340060125-000<br>T1340060132-000 |
| Cable-to-cable hood | | | | | |
| |  Low construction High construction<br>Construction / H<br>Low / 62.5<br>Hight / 74.5 | M20<br>M25<br><br><br>M20<br>M25<br>M32 | PG16<br><br><br>PG21<br>PG29 | H6B-TBFS-PG16<br>H6B-TBFS-M20<br>H6B-TBFS-M25<br>H6B-TBFHS-PG21<br>H6B-TBFHS-PG29<br>H6B-TBFHS-M20<br>H6B-TBFHS-M25<br>H6B-TBFHS-M32 | T1730062116-000<br>T1730062120-000<br>T1730062125-000<br>T1770062121-000<br>T1770062129-000<br>T1770062120-000<br>T1770062125-000<br>T1770062132-000 |
| Protection covers for hoods | | | | | |
| |  | | | H6B-KDTP | T1010061400-000 |



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

## H6B with 1 lever on the hoods/housings

POWDER-COATED, RAL 7037

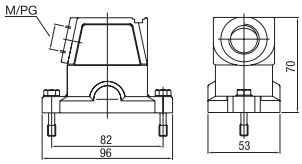
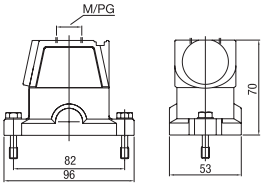
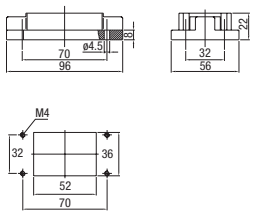
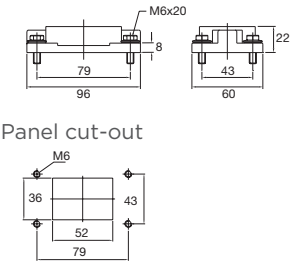
| Dimensions (mm) | Metr. | PG | Type | Part Number |
|---|---|---|---|---|
| Bulkhead mounted | | | | |
|  | | | H6B-AGS | T1500062000-000 |
| With protection cover  | | | H6B-ADS | T1510062100-000 |
| Surface mounted: Side entry | | | | |
|   | M20<br>M25<br><br><br>M20<br>M25<br><br><br>M25<br>M32<br><br><br>M25<br>M32 | PG16<br>PG21<br>H6B-SGRS-M20<br>H6B-SGRS-M25<br>PG16<br>PG21<br>H6B-SGRS-2M20<br>H6B-SGRS-2M25<br>PG21<br>PG29<br>H6B-SGRHS-M25<br>H6B-SGRHS-M32<br>PG21<br>PG29<br>H6B-SGRHS-2M25<br>H6B-SGRHS-2M32 | H6B-SGRS-PG16<br>H6B-SGRS-PG21<br>T1610062120-000<br>T1610062125-000<br>H6B-SGRS-2PG16<br>H6B-SGRS-2PG21<br>T1610062220-000<br>T1610062225-000<br>H6B-SGRHS-PG21<br>H6B-SGRHS-PG29<br>T1650062125-000<br>T1650062132-000<br>H6B-SGRHS-2PG21<br>H6B-SGRHS-2PG29<br>T1650062225-000<br>T1650062232-000 | T1610062116-000<br>T1610062121-000<br><br><br>T1610062216-000<br>T1610062221-000<br><br><br>T1650062121-000<br>T1650062129-000<br><br><br>T1650062221-000<br>T1650062229-000<br><br> |
| With protection cover  | M20<br>M25<br><br><br>M20<br>M25<br><br><br>M25<br>M32<br><br><br>M25<br>M32 | PG16<br>PG21<br>H6B-SDRS-M20<br>H6B-SDRS-M25<br>PG16<br>PG21<br>H6B-SDRS-2M20<br>H6B-SDRS-2M25<br>PG21<br>PG29<br>H6B-SDRHS-M25<br>H6B-SDRHS-M32<br>PG21<br>PG29<br>H6B-SDRHS-2M25<br>H6B-SDRHS-2M32 | H6B-SDRS-PG16<br>H6B-SDRS-PG21<br>T1620062120-000<br>T1620062125-000<br>H6B-SDRS-2PG16<br>H6B-SDRS-2PG21<br>T1620062220-000<br>T1620062225-000<br>H6B-SDRHS-PG21<br>H6B-SDRHS-PG29<br>T1660062125-000<br>T1660062132-000<br>H6B-SDRHS-2PG21<br>H6B-SDRHS-2PG29<br>T1660062225-000<br>T1660062232-000 | T1620062116-000<br>T1620062121-000<br><br><br>T1620062216-000<br>T1620062221-000<br><br><br>T1660062121-000<br>T1660062129-000<br><br><br>T1660062221-000<br>T1660062229-000<br><br> |

| Construction | A | B | H |
|---|---|---|---|
| Low | 40 | 52 | 56 |
| Hight | 45 | 57 | 74 |

## 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**<br>HIP.6/16.STS.1.16.G<br>HIP.6/16.STS.1.M25.G | 1-1102631-5<br>0-1106425-2 |
| | | | 16<br>21 | **HIP-K**<br>HIP-K.6/16.STS.1.16.G<br>HIP-K.6/16.STS.1.21.G | 2-1102631-5<br>2-1102633-5 |
| | | M25 | | HIP-K.6/16.STS.1.M25.G | 0-1106425-4 |
| | | | 16 | **EMV-K**<br>EMV-K.6/16.STS.1.16.G | 4-1102704-5 |
| | | M25 | | EMV-K.6/16.STS.1.M25.G | 0-1106416-4 |
| **Hood:** Top entry | | | | | |
| |  | M32 | 16 | **HIP**<br>HIP.6/16.STO.1.16.G<br>HIP.6/16.STO.1.M32.G | 1-1102635-5<br>0-1106425-1 |
| | | | 16<br>21 | **HIP-K**<br>HIP-K.6/16.STO.1.16.G<br>HIP-K.6/16.STO.1.21.G | 2-1102635-5<br>2-1102637-5 |
| | | M25<br>M32 | | HIP-K.6/16.STO.1.M25.G<br>HIP-K.6/16.STO.1.M32.G | 0-1106425-6<br>0-1106425-3 |
| | | | 13<br>16<br>21 | **EMV-K**<br>EMV-K.6/16.STO.1.13.G<br>EMV-K.6/16.STO.1.16.G<br>EMV-K.6/16.STO.1.21.G | 0-1108719-1<br>4-1102706-5<br>4-1102707-5 |
| | | M32 | | EMV-K.6/16.STO.1.M32.G | 0-1106416-3 |
| **Surface mounted housing:** Bottom entry | | | | | |
| |  | | | **HIP**<br>HIP.6/16.AG<br>**HIP-K**<br>HIP-K.6/16.AG<br>**EMV-K**<br>EMV-K.6/16.AG | 1-1102638-5<br>2-1102638-5<br>4-1102710-5 |
| |  | | | **HIP**<br>HIP.6/16.AG.M6<br>**HIP-K**<br>HIP-K.6/16.AG.M6<br>**EMV-K**<br>EMV-K.6/16.AG.M6 | 1-1102606-5<br>2-1102606-5<br>4-1102712-5 |



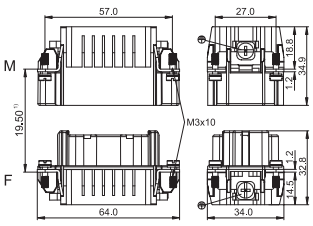
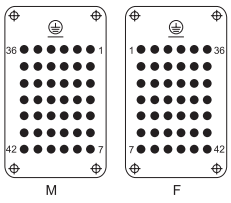
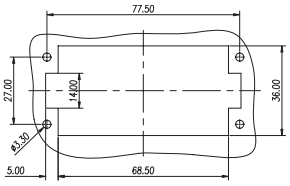
All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

# HDD-042 inserts

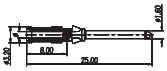
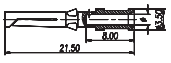
INSERTS FOR H10B HOOD/HOUSING

250V 10A

42+⏚ (machined contacts)

| Dimensions (mm) | | Type | Part Number | |
|---|---|---|---|---|
| | | | Male insert | Female insert |
| Crimp terminal (order crimp contacts separately) | | | | |
| |   | HDD-042-M | T2030422101-000 | |
| | | HDD-042-F | | T2030422201-000 |
| Contact arrangement view from termination side | Panel cut out for inserts for use without hoods/housings | | | |
|   |   | | | |

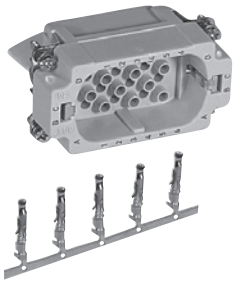
## 10A Contact

| Tech data<br>**Material:**<br>copper alloy<br>**Contact resistance:** ≤3mΩ<br>**Terminal:**<br>crimp connection<br>**CDM/Male**<br> | 10A Male crimp contacts<br>  | Wire gauge | | Stripping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|---|---|---|---|---|---|---|
| | | mm² | AWG | mm | Type | Part Number | Type | Part Number |
| | | 0.14-0.37 | 26-22 | 8.0 | CDM-0.14 | T2020001002-000 | DDM-0.14 | T2020011002-000 |
| | | 0.5 | 20 | 8.0 | CDM-0.5 | T2020001005-000 | DDM-0.5 | T2020011005-000 |
| | | 0.75 | 18 | 8.0 | CDM-0.75 | T2020001008-000 | DDM-0.75 | T2020011008-000 |
| | | 1.0 | 18 | 8.0 | CDM-1.0 | T2020001010-000 | DDM-1.0 | T2020011010-000 |
| | | 1.5 | 16 | 8.0 | CDM-1.5 | T2020001015-000 | DDM-1.5 | T2020011015-000 |
| | | 2.5 | 14 | 6.0 | CDM-2.5 | T2020001025-000 | DDM-2.5 | T2020011025-000 |
| **CDF/Female**<br> | 10A Female crimp contacts<br>  | 0.14-0.37 | 26-22 | 8.0 | CDF-0.14 | T2020002002-000 | DDF-0.14 | T2020012002-000 |
| | | 0.5 | 20 | 8.0 | CDF-0.5 | T2020002005-000 | DDF-0.5 | T2020012005-000 |
| | | 0.75 | 18 | 8.0 | CDF-0.75 | T2020002008-000 | DDF-0.75 | T2020012008-000 |
| | | 1.0 | 18 | 8.0 | CDF-1.0 | T2020002010-000 | DDF-1.0 | T2020012010-000 |
| | | 1.5 | 16 | 8.0 | CDF-1.5 | T2020002015-000 | DDF-1.5 | T2020012015-000 |
| | | 2.5 | 14 | 6.0 | CDF-2.5 | T2020002025-000 | DDF-2.5 | T2020012025-000 |

## HDD-024 inserts

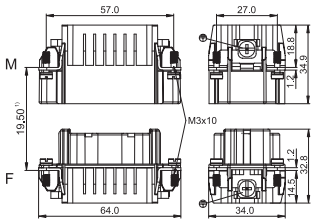
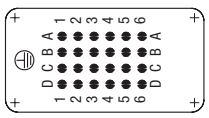
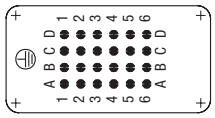
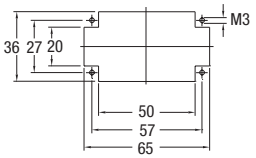
INSERTS FOR H10B HOOD/HOUSING 250V 10A

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 | |
|  |  |  |  |

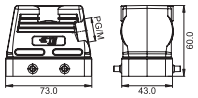
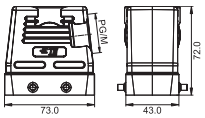
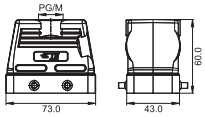
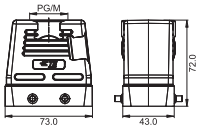
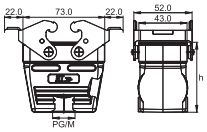
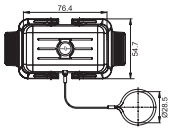
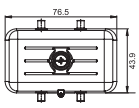




All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

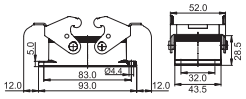
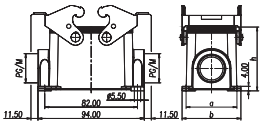
## H10B with 2 levers on the hoods/housings

POWDER-COATED, RAL 7037

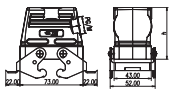
| Dimensions (mm) | | Metr. | PG | Type | Part Number |
|---|---|---|---|---|---|
| Hood: Side entry | | | | | |
| | Low construction   | M20<br>M25 | PG16<br>PG21 | H10B-TS-PG16<br>H10B-TS-PG21<br>H10B-TS-M20<br>H10B-TS-M25 | T1210100116-000<br>T1210100121-000<br>T1210100120-000<br>T1210100125-000 |
| | High construction   | M20<br>M25<br>M32 | PG21<br>PG29 | H10B-TSH-PG21<br>H10B-TSH-PG29<br>H10B-TSH-M20<br>H10B-TSH-M25<br>H10B-TSH-M32 | T1230100121-000<br>T1230100129-000<br>T1230100120-000<br>T1230100125-000<br>T1230100132-000 |
| Hood: Top entry | | | | | |
| | Low construction   | M20<br>M25 | PG16<br>PG21 | H10B-TG-PG16<br>H10B-TG-PG21<br>H10B-TG-M20<br>H10B-TG-M25 | T1220100116-000<br>T1220100121-000<br>T1220100120-000<br>T1220100125-000 |
| | High construction   | M20<br>M25<br>M32 | PG21<br>PG29 | H10B-TGH-PG21<br>H10B-TGH-PG29<br>H10B-TGH-M20<br>H10B-TGH-M25<br>H10B-TGH-M32 | T1240100121-000<br>T1240100129-000<br>T1240100120-000<br>T1240100125-000<br>T1240100132-000 |
| Cable-to-cable hood | | | | | |
| |   Low construction High construction | M20<br>M25<br><br>M25<br>M32 | PG16<br><br>PG21<br>PG29 | H10B-TBFS-PG16<br>H10B-TBFS-M20<br>H10B-TBFS-M25<br>H10B-TBFHS-PG21<br>H10B-TBFHS-PG29<br>H10B-TBFHS-M25<br>H10B-TBFHS-M32 | T1710101116-000<br>T1710101120-000<br>T1710101125-000<br>T1750101121-000<br>T1750101129-000<br>T1750101125-000<br>T1750101132-000 |
| Protection covers for hoods | | | | | |
| |   | | | H10B-KDTP | T1010101400-000 |
| Housing protection cover | | | | | |
| |   | | | H10B-KDBP | T1010102100-000 |

## H10B with 2 levers on the hoods/housings

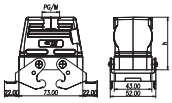
POWDER-COATED, RAL 7037

| Dimensions (mm) | Metr. | PG | Type | Part Number |
|---|---|---|---|---|
| **Bulkhead mounted** | | | | |
|  | | | H10B-AGS | T1410101000-000 |
| **Surface mounted: Side entry** | | | | |
|  | M20<br>M25<br><br><br>M20<br>M25<br><br><br>M25<br>M32<br><br><br>M25<br>M32 | PG16<br>PG21<br>PG16<br>PG21<br>PG21<br>PG29<br>PG21<br>PG29 | H10B-SGRS-PG16<br>H10B-SGRS-PG21<br>H10B-SGRS-M20<br>H10B-SGRS-M25<br>H10B-SGRS-2PG16<br>H10B-SGRS-2PG21<br>H10B-SGRS-2M20<br>H10B-SGRS-2M25<br>H10B-SGRHS-PG21<br>H10B-SGRHS-PG29<br>H10B-SGRHS-M25<br>H10B-SGRHS-M32<br>H10B-SGRHS-2PG21<br>H10B-SGRHS-2PG29<br>H10B-SGRHS-2M25<br>H10B-SGRHS-2M32 | T1440101116-000<br>T1440101121-000<br>T1440101120-000<br>T1440101125-000<br>T1440101216-000<br>T1440101221-000<br>T1440101220-000<br>T1440101225-000<br>T1470101121-000<br>T1470101129-000<br>T1470101125-000<br>T1470101132-000<br>T1470101221-000<br>T1470101229-000<br>T1470101225-000<br>T1470101232-000 |

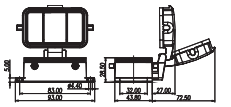
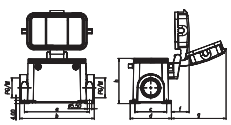
| Construction | A | B | H |
|---|---|---|---|
| Low | 40 | 52 | 56 |
| Hight | 45 | 57 | 74 |

| **Side entry housing with two levers** | | | | |
|---|---|---|---|---|
|  | M20<br>M25<br><br><br>M25<br>M32 | PG16<br>PG21<br><br><br>PG21<br>PG29 | H10B-TSBS-PG16<br>H10B-TSBS-PG21<br>H10B-TSBS-M20<br>H10B-TSBS-M25<br>H10B-TSBHS-PG21<br>H10B-TSBHS-PG29<br>H10B-TSBHS-M25<br>H10B-TSBHS-M32 | T1250103116-000<br>T1250103121-000<br>T1250103120-000<br>T1250103125-000<br>T1270103121-000<br>T1270103129-000<br>T1270103125-000<br>T1270103132-000 |

| Construction | H |
|---|---|
| Low | 60 |
| Hight | 72 |

| **Top entry housing with two levers** | | | | |
|---|---|---|---|---|
|  | M20<br>M25<br><br><br>M25<br>M32 | PG16<br>PG21<br><br><br>PG21<br>PG29 | H10B-TGBS-PG16<br>H10B-TGBS-PG21<br>H10B-TGBS-M20<br>H10B-TGBS-M25<br>H10B-TGBHS-PG21<br>H10B-TGBHS-PG29<br>H10B-TGBHS-M25<br>H10B-TGBHS-M32 | T1260103116-000<br>T1260103121-000<br>T1260103120-000<br>T1260103125-000<br>T1280103121-000<br>T1280103129-000<br>T1280103125-000<br>T1280103132-000 |

| Construction | H |
|---|---|
| Low | 60 |
| Hight | 72 |

| **Bulkhead mounted with 4 bolts** | | | | |
|---|---|---|---|---|
| With protection cover | | | H10B-AD-BO | T1430100000-000 |
|  | M20<br>M25<br><br><br>M25<br>M32 | PG16<br>PG21<br><br><br>PG21<br>PG29 | H10B-SDR-BO-PG16<br>H10B-SDR-BO-PG21<br>H10B-SDR-BO-M20<br>H10B-SDR-BO-M25<br>H10B-SDR-BO-2PG16<br>H10B-SDR-BO-2PG21<br>H10B-SDR-BO-2M20<br>H10B-SDR-BO-2M25<br>H10B-SDRH-BO-PG21<br>H10B-SDRH-BO-PG29<br>H10B-SDRH-BO-M25<br>H10B-SDRH-BO-M32<br>H10B-SDRH-BO-2PG21<br>H10B-SDRH-BO-2PG29<br>H10B-SDRH-BO-2M25<br>H10B-SDRH-BO-2M32 | T1460100116-000<br>T1460100121-000<br>T1460100120-000<br>T1460100125-000<br>T1460100216-000<br>T1460100221-000<br>T1460100220-000<br>T1460100225-000<br>T1490100121-000<br>T1490100129-000<br>T1490100125-000<br>T1490100132-000<br>T1490100221-000<br>T1490100229-000<br>T1490100225-000<br>T1490100232-000 |
|  | | | | |

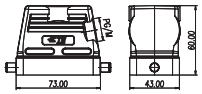
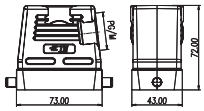
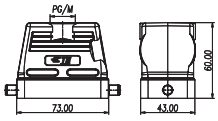
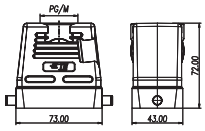
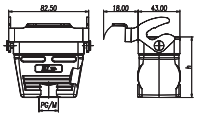
| Construction | A | B | C | D | F | G | H |
|---|---|---|---|---|---|---|---|
| Low | 82 | 94 | 40 | 52 | 22 | 67 | 54 |
| Hight | 82 | 94 | 45 | 57 | 20 | 65 | 74 |



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

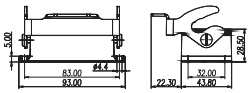
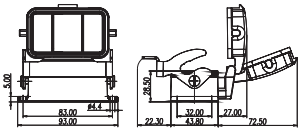
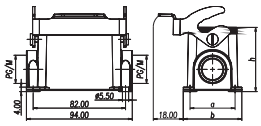
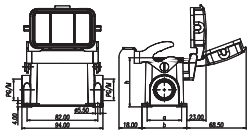
## H10B with 1 lever on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | | Metr. | PG | Type | Part Number |
|---|---|---|---|---|---|
| Hood: Side entry | | | | | |
| | Low construction  | M20<br>M25 | PG16<br>PG21 | H10B-TS-RO-PG16<br>H10B-TS-RO-PG21<br>H10B-TS-RO-M20<br>H10B-TS-RO-M25 | T1310100116-000<br>T1310100121-000<br>T1310100120-000<br>T1310100125-000 |
| | High construction  | M20<br>M25<br>M32 | PG21<br>PG29 | H10B-TSH-RO-PG21<br>H10B-TSH-RO-PG29<br>H10B-TSH-RO-M20<br>H10B-TSH-RO-M25<br>H10B-TSH-RO-M32 | T1330100121-000<br>T1330100129-000<br>T1330100120-000<br>T1330100125-000<br>T1330100132-000 |
| Hood: Top entry | | | | | |
| | Low construction  | M20<br>M25 | PG16<br>PG21 | H10B-TG-RO-PG16<br>H10B-TG-RO-PG21<br>H10B-TG-RO-M20<br>H10B-TG-RO-M25 | T1320100116-000<br>T1320100121-000<br>T1320100120-000<br>T1320100125-000 |
| | High construction  | M20<br>M25<br>M32 | PG21<br>PG29 | H10B-TGH-RO-PG21<br>H10B-TGH-RO-PG29<br>H10B-TGH-RO-M20<br>H10B-TGH-RO-M25<br>H10B-TGH-RO-M32 | T1340100121-000<br>T1340100129-000<br>T1340100120-000<br>T1340100125-000<br>T1340100132-000 |
| Cable-to-cable hood | | | | | |
| |  Low construction High construction<br>Construction / H<br>Low / 62.5<br>Hight / 74.5 | M20<br>M25<br><br>M25<br>M32 | PG16<br><br>PG21<br>PG29 | H10B-TBF-LB-PG16<br>H10B-TBF-LB-M20<br>H10B-TBF-LB-M25<br>H10B-TBFH-LB-PG21<br>H10B-TBFH-LB-PG29<br>H10B-TBFH-LB-M25<br>H10B-TBFH-LB-M32 | T1730103116-000<br>T1730103120-000<br>T1730103125-000<br>T1770103121-000<br>T1770103129-000<br>T1770103125-000<br>T1770103132-000 |
| Protection covers for hoods | | | | | |
| | | | | H10B-KDTP-LB | T1010101500-000 |

## H10B with 1 lever on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | Metr. | PG | Type | Part Number |
|---|---|---|---|---|
| **Bulkhead mounted** | | | | |
|  | | | H10B-AG-LB | T1500103000-000 |
| With protection cover  | | | H10B-AD-LB<br>H10B-ADM-LB | T1510103000-000<br>T1510103001-000 |
| **Surface mounted: Side entry** | | | | |
|  1 Side entry Low construction 2 Side entry 1 Side entry High construction 2 Side entry | M20<br>M25<br><br><br>M20<br>M25<br><br><br>M25<br>M32<br><br><br>M25<br>M32 | PG16<br>PG21<br><br><br>PG16<br>PG21<br><br><br>PG21<br>PG29<br><br><br>PG21<br>PG29<br><br><br>M25<br>M32 | H10B-SGR-LB-PG16<br>H10B-SGR-LB-PG21<br>H10B-SGR-LB-M20<br>H10B-SGR-LB-M25<br>H10B-SGR-LB-2PG16<br>H10B-SGR-LB-2PG21<br>H10B-SGR-LB-2M20<br>H10B-SGR-LB-2M25<br>H10B-SGRH-LB-PG21<br>H10B-SGRH-LB-PG29<br>H10B-SGRH-LB-M25<br>H10B-SGRH-LB-M32<br>H10B-SGRH-LB-2PG21<br>H10B-SGRH-LB-2PG29<br>H10B-SGRH-LB-2M25<br>H10B-SGRH-LB-2M32 | T1610103116-000<br>T1610103121-000<br>T1610103120-000<br>T1610103125-000<br>T1610103216-000<br>T1610103221-000<br>T1610103220-000<br>T1610103225-000<br>T1650103121-000<br>T1650103129-000<br>T1650103125-000<br>T1650103132-000<br>T1650103221-000<br>T1650103229-000<br>T1650103225-000<br>T1650103232-000 |
| With protection cover  1 Side entry Low construction 2 Side entry 1 Side entry High construction 2 Side entry | M20<br>M25<br><br><br>M20<br>M25<br><br><br>M25<br>M32<br><br><br>M25<br>M32 | PG16<br>PG21<br><br><br>PG16<br>PG21<br><br><br>PG21<br>PG29<br><br><br>PG21<br>PG29<br><br><br>M25<br>M32 | H10B-SDR-LB-PG16<br>H10B-SDR-LB-PG21<br>H10B-SDR-LB-M20<br>H10B-SDR-LB-M25<br>H10B-SDR-LB-2PG16<br>H10B-SDR-LB-2PG21<br>H10B-SDR-LB-2M20<br>H10B-SDR-LB-2M25<br>H10B-SDRH-LB-PG21<br>H10B-SDRH-LB-PG29<br>H10B-SDRH-LB-M25<br>H10B-SDRH-LB-M32<br>H10B-SDRH-LB-2PG21<br>H10B-SDRH-LB-2PG29<br>H10B-SDRH-LB-2M25<br>H10B-SDRH-LB-2M32 | T1620103116-000<br>T1620103121-000<br>T1620103120-000<br>T1620103125-000<br>T1620103216-000<br>T1620103221-000<br>T1620103220-000<br>T1620103225-000<br>T1660103121-000<br>T1660103129-000<br>T1660103125-000<br>T1660103132-000<br>T1660103221-000<br>T1660103229-000<br>T1660103225-000<br>T1660103232-000 |

| Construction | A | B | H |
|---|---|---|---|
| Low | 40 | 52 | 54 |
| Hight | 45 | 57 | 74 |

| Construction | A | B | H |
|---|---|---|---|
| Low | 40 | 52 | 54 |
| Hight | 45 | 57 | 74 |

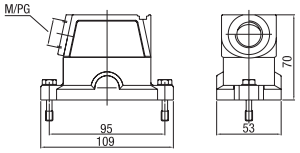
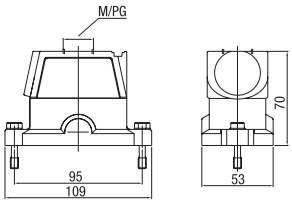
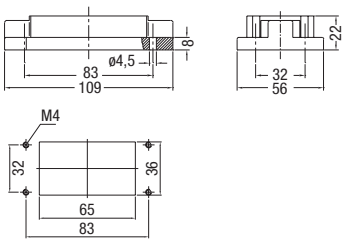


All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

## 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

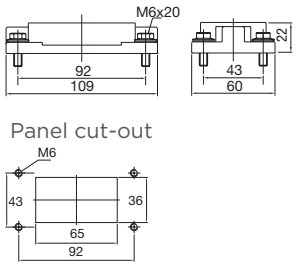
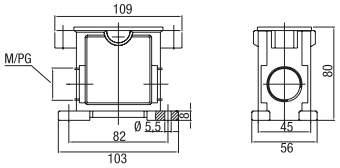
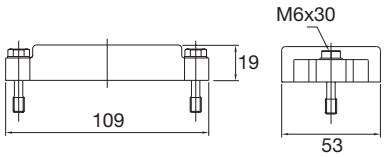
**Pressure-tight up to 5 bar** **IP 68 / IP 69 K**

| Description | | Metr. | PG | Type | Part Number |
|---|---|---|---|---|---|
| **Hood:** Side entry, Standard construction | | | | | |
| |  | M25 | | **HIP** | |
| | | | 16 | HIP.10/24.STS.1.16.G | 1-1102640-5 |
| | | | 21 | HIP.10/24.STS.1.21.G | 1-1102642-5 |
| | | | | HIP.10/24.STS.1.M25.G | 0-1106436-2 |
| | | | | **HIP-K** | |
| | | | 21 | HIP-K.10/24.STS.1.21.G | 2-1102642-5 |
| | | M25 | | HIP-K.10/24.STS.1.M25.G | 0-1106436-4 |
| | | M32 | | HIP-K.10/24.STS.1.M32.G | 0-1106436-6 |
| | | | | **EMV-K** | |
| | | | 21 | EMV-K.10/24.STS.1.21.G | 4-1102714-5 |
| | | M25 | | EMV-K.10/24.STS.1.M25.G | 0-1106427-3 |
| | | M32 | | EMV-K.10/24.STS.1.M32.G | 1-1106427-0 |
| **Hood:** Top entry | | | | | |
| |  | M25 | | **HIP** | |
| | | | 16 | HIP.10/24.STO.1.16.G | 1-1102644-5 |
| | | | 21 | HIP.10/24.STO.1.21.G | 1-1102646-5 |
| | | | | HIP.10/24.STO.1.M25.G | 0-1106436-1 |
| | | | | **HIP-K** | |
| | | | 16 | HIP-K.10/24.STO.1.16.G | 2-1102644-5 |
| | | M25 | | HIP-K.10/24.STO.1.M25.G | 0-1106436-3 |
| | | M32 | | HIP-K.10/24.STO.1.M32.G | 0-1106436-5 |
| | | | | **EMV-K** | |
| | | | 21 | EMV-K.10/24.STO.1.21.G | 4-1102715-5 |
| | | M25 | | EMV-K.10/24.STO.1.M25.G | 0-1106427-4 |
| **Surface mounted housing:** Bottom entry | | | | | |
| |  | | | **HIP**<br>HIP.10/24.AG | 1-1102647-5 |
| | | | | **HIP-K**<br>HIP-K.10/24.AG | 2-1102647-5 |
| | | | | **EMV-K**<br>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**<br>HIP.10/24.AG.M6<br><br>**HIP-K**<br>HIP-K.10/24.AG.M6<br><br>**EMV-K**<br>EMV-K.10/24.AG.M6 | <br>1-1102612-5<br><br><br>2-1102612-5<br><br><br>4-1102720-5 |
| **Surface mounted housing:** Side entry | | | | | |
| |  | 2xM32<br><br><br><br><br><br><br><br>2xM32 | 21<br>2x21<br><br><br><br>21<br>2x21<br><br>21<br>2x21 | **HIP**<br>HIP.10/24.SG.1.21.G<br>HIP.10/24.SG.2.21.G<br>HIP.10/24.SG.2.M32.G<br><br>**HIP-K**<br>HIP-K.10/24.SG.1.21.G<br>HIP-K.10/24.SG.2.21.G<br><br>**EMV-K**<br>EMV-K.10/24.SG.1.21.G<br>EMV-K.10/24.SG.2.21.G<br>EMV-K.10/24.SG.2.M32.G | <br>1-1102610-5<br>1-1102611-5<br>0-1106435-1<br><br><br>5-1102610-5<br>2-1102611-5<br><br><br>5-1102716-5<br>4-1102717-5<br>0-1106426-2 |
| **Protective covers for hoods and housing** | | | | | |
| |  | | | **HIP**<br>HIP/EMV.10/24.SKB<br><br>**HIP-K/EMV-K**<br>HIP-K/EMV-K.10/24.SKB | <br>3-1106202-5<br><br><br>4-1106202-5 |



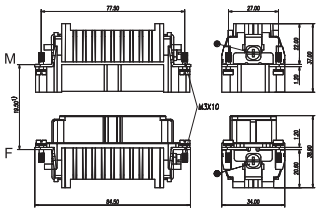
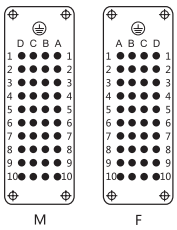
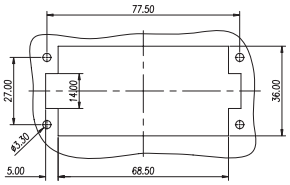
All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

## HD-040 inserts

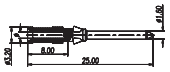
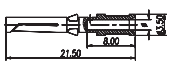
INSERTS FOR H16B HOOD/HOUSING

250V 10A

40+⏚ (machined contacts)

| Dimensions (mm) | | Type | Part Number | |
|---|---|---|---|---|
| | | | Male insert | Female insert |
| Crimp terminal (order crimp contacts separately) | | | | |
| |  | HD-040-M | T2020402101-000 | |
| | | HD-040-F | | T2020402201-000 |
| Contact arrangement view from termination side | Panel cut out for inserts for use without hoods/housings | | | |
|  |  | | | |

### 10A Contact

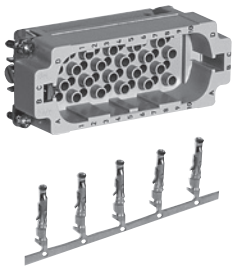
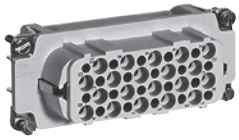
| Tech data<br>**Material:**<br>copper alloy<br>**Contact resistance:** ≤3mΩ<br>**Terminal:**<br>crimp connection | 10A Male crimp contacts | Wire gauge | | Stripping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|---|---|---|---|---|---|---|
| | | mm² | AWG | mm | Type | Part Number | Type | Part Number |
| **CDM/Male** |  | 0.14-0.37 | 26-22 | 8.0 | CDM-0.14 | T2020001002-000 | DDM-0.14 | T2020011002-000 |
| | | 0.5 | 20 | 8.0 | CDM-0.5 | T2020001005-000 | DDM-0.5 | T2020011005-000 |
| | | 0.75 | 18 | 8.0 | CDM-0.75 | T2020001008-000 | DDM-0.75 | T2020011008-000 |
| | | 1.0 | 18 | 8.0 | CDM-1.0 | T2020001010-000 | DDM-1.0 | T2020011010-000 |
| | | 1.5 | 16 | 8.0 | CDM-1.5 | T2020001015-000 | DDM-1.5 | T2020011015-000 |
| | | 2.5 | 14 | 6.0 | CDM-2.5 | T2020001025-000 | DDM-2.5 | T2020011025-000 |
| **CDF/Female** | **10A Female crimp contacts**  | 0.14-0.37 | 26-22 | 8.0 | CDF-0.14 | T2020002002-000 | DDF-0.14 | T2020012002-000 |
| | | 0.5 | 20 | 8.0 | CDF-0.5 | T2020002005-000 | DDF-0.5 | T2020012005-000 |
| | | 0.75 | 18 | 8.0 | CDF-0.75 | T2020002008-000 | DDF-0.75 | T2020012008-000 |
| | | 1.0 | 18 | 8.0 | CDF-1.0 | T2020002010-000 | DDF-1.0 | T2020012010-000 |
| | | 1.5 | 16 | 8.0 | CDF-1.5 | T2020002015-000 | DDF-1.5 | T2020012015-000 |
| | | 2.5 | 14 | 6.0 | CDF-2.5 | T2020002025-000 | DDF-2.5 | T2020012025-000 |

## HD-040 inserts

INSERTS FOR H16B HOOD/HOUSING

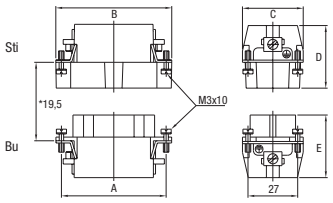
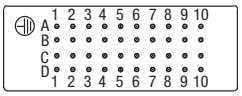
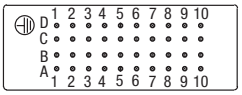
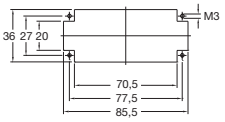
250V 10A

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 | |
|  |  |  |  |





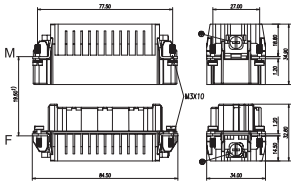
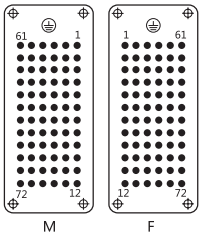
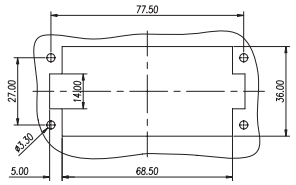
All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

## HDD-072 inserts

INSERTS FOR H16B HOOD/HOUSING

250V 10A

72+⏚ (machined contacts)

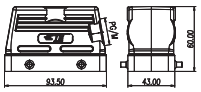
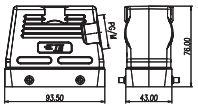
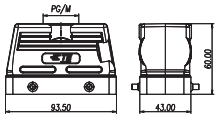
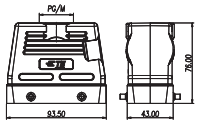
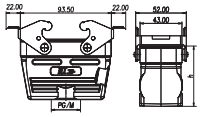
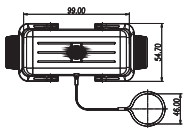
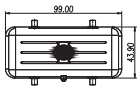
| Dimensions (mm) | | Type | Part Number | |
|---|---|---|---|---|
| | | | Male insert | Female insert |
| Crimp terminal (order crimp contacts separately) | | | | |
| |  | HDD-072-M | T2030722101-000 | |
| | | HDD-072-F | | T2030722201-000 |
| Contact arrangement view from termination side | Panel cut out for inserts for use without hoods/housings | | | |
|  |  | | | |

### 10A Contact

| Tech data<br>**Material:**<br>copper alloy<br>**Contact resistance:** ≤3mΩ<br>**Terminal:**<br>crimp connection | 10A Male crimp contacts | Wire gauge | | Strip-ping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|---|---|---|---|---|---|---|
| | | mm² | AWG | mm | Type | Part Number | Type | Part Number |
| | | 0.14-0.37 | 26-22 | 8.0 | CDM-0.14 | T2020001002-000 | DDM-0.14 | T2020011002-000 |
| | | 0.5 | 20 | 8.0 | CDM-0.5 | T2020001005-000 | DDM-0.5 | T2020011005-000 |
| | | 0.75 | 18 | 8.0 | CDM-0.75 | T2020001008-000 | DDM-0.75 | T2020011008-000 |
| | | 1.0 | 18 | 8.0 | CDM-1.0 | T2020001010-000 | DDM-1.0 | T2020011010-000 |
| | | 1.5 | 16 | 8.0 | CDM-1.5 | T2020001015-000 | DDM-1.5 | T2020011015-000 |
| | | 2.5 | 14 | 6.0 | CDM-2.5 | T2020001025-000 | DDM-2.5 | T2020011025-000 |
| **CDF/Female** | **10A Female crimp contacts** | | | | | | | |
| | | 0.14-0.37 | 26-22 | 8.0 | CDF-0.14 | T2020002002-000 | DDF-0.14 | T2020012002-000 |
| | | 0.5 | 20 | 8.0 | CDF-0.5 | T2020002005-000 | DDF-0.5 | T2020012005-000 |
| | | 0.75 | 18 | 8.0 | CDF-0.75 | T2020002008-000 | DDF-0.75 | T2020012008-000 |
| | | 1.0 | 18 | 8.0 | CDF-1.0 | T2020002010-000 | DDF-1.0 | T2020012010-000 |
| | | 1.5 | 16 | 8.0 | CDF-1.5 | T2020002015-000 | DDF-1.5 | T2020012015-000 |
| | | 2.5 | 14 | 6.0 | CDF-2.5 | T2020002025-000 | DDF-2.5 | T2020012025-000 |

## 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<br>M25<br>M32 | PG16<br>PG21 | H16B-TS-PG16<br>H16B-TS-PG21<br>H16B-TS-M20<br>H16B-TS-M25<br>H16B-TS-M32 | T1210160116-000<br>T1210160121-000<br>T1210160120-000<br>T1210160125-000<br>T1210160132-000 |
| | High construction  | M25<br>M32<br>M40 | PG21<br>PG29 | H16B-TSH-PG21<br>H16B-TSH-PG29<br>H16B-TSH-M25<br>H16B-TSH-M32<br>H16B-TSH-M40 | T1230160121-000<br>T1230160129-000<br>T1230060125-000<br>T1230160132-000<br>T1230160140-000 |
| Hood: Top entry | | | | | |
| | Low construction  | M25<br>M32 | PG16<br>PG21 | H16B-TG-PG16<br>H16B-TG-PG21<br>H16B-TG-M25<br>H16B-TG-M32 | T1220160116-000<br>T1220160121-000<br>T1220160125-000<br>T1220160132-000 |
| | High construction  | M25<br>M32<br>M40 | PG21<br>PG29 | H16B-TGH-PG21<br>H16B-TGH-PG29<br>H16B-TGH-M25<br>H16B-TGH-M32<br>H16B-TGH-M40 | T1240160121-000<br>T1240160129-000<br>T1240160125-000<br>T1240160132-000<br>T1240160140-000 |
| Cable-to-cable hood | | | | | |
| |  Low construction High construction | M25<br>M32<br>M25<br>M32<br>M40 | PG21<br>PG21<br>PG29 | H16B-TBFS-PG21<br>H16B-TBFS-M25<br>H16B-TBFS-M32<br>H16B-TBFHS-PG21<br>H16B-TBFHS-PG29<br>H16B-TBFHS-M25<br>H16B-TBFHS-M32<br>H16B-TBFHS-M40 | T1710161121-000<br>T1710161125-000<br>T1710161132-000<br>T1750161121-000<br>T1750161129-000<br>T1750161125-000<br>T1750161132-000<br>T1750161140-000 |
| Protection covers for hoods | | | | | |
| |  | | | H16B-KDTP | T1010161400-000 |
| Housing protection cover | | | | | |
| |  | | | H16B-KDBP | T1010162100-000 |

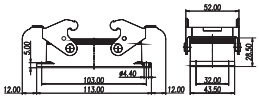
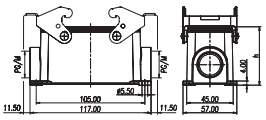
| Construction | H |
|---|---|
| Low | 62.5 |
| Hight | 74.5 |



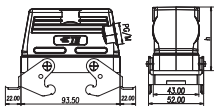
All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

## H16B with 2 levers on the hoods/housings

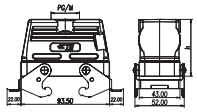
POWDER-COATED, RAL 7037

| Dimensions (mm) | Metr. | PG | Type | Part Number |
|---|---|---|---|---|
| **Bulkhead mounted** | | | | |
|  | | | H16B-AGS | T1410161000-000 |
| **Surface mounted: Side entry** | | | | |
|  1 Side entry 2 Side entry Low construction 1 Side entry 2 Side entry High construction | M25<br>M25<br>M25<br>M32<br>M25<br>M32 | PG21<br>PG21<br>PG21<br>PG29<br>PG21<br>PG29 | H16B-SGRS-PG21<br>H16B-SGRS-M25<br>H16B-SGRS-2PG21<br>H16B-SGRS-2M25<br>H16B-SGRHS-PG21<br>H16B-SGRHS-PG29<br>H16B-SGRHS-M25<br>H16B-SGRHS-M32<br>H16B-SGRHS-2PG21<br>H16B-SGRHS-2PG29<br>H16B-SGRHS-2M25<br>H16B-SGRHS-2M32 | T1440161121-000<br>T1440161125-000<br>T1440161221-000<br>T1440161225-000<br>T1470161121-000<br>T1470161129-000<br>T1470161125-000<br>T1470161132-000<br>T1470161221-000<br>T1470161229-000<br>T1470161225-000<br>T1470161232-000 |

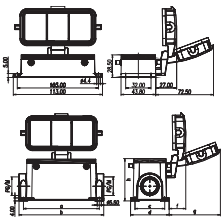
| Construction | H |
|---|---|
| Low | 56 |
| Hight | 81 |

| **Side entry housing with two levers** | | | | |
|---|---|---|---|---|
|  Low construction High construction | M20<br>M25<br>M25<br>M32 | PG16<br>PG21<br>PG21<br>PG29 | H16B-TSBS-PG16<br>H16B-TSBS-PG21<br>H16B-TSBS-M20<br>H16B-TSBS-M25<br>H16B-TSBHS-PG21<br>H16B-TSBHS-PG29<br>H16B-TSBHS-M25<br>H16B-TSBHS-M32 | T1250163116-000<br>T1250163121-000<br>T1250163120-000<br>T1250163125-000<br>T1270163121-000<br>T1270163129-000<br>T1270163125-000<br>T1270163132-000 |

| Construction | H |
|---|---|
| Low | 60 |
| Hight | 76 |

| **Top entry housing with two levers** | | | | |
|---|---|---|---|---|
|  Low construction High construction | M20<br>M25<br>M25<br>M32 | PG16<br>PG21<br>PG21<br>PG29 | H16B-TGBS-PG16<br>H16B-TGBS-PG21<br>H16B-TGBS-M20<br>H16B-TGBS-M25<br>H16B-TGBHS-PG21<br>H16B-TGBHS-PG29<br>H16B-TGBHS-M25<br>H16B-TGBHS-M32 | T1260163116-000<br>T1260163121-000<br>T1260163120-000<br>T1260163125-000<br>T1280163121-000<br>T1280163129-000<br>T1280163125-000<br>T1280163132-000 |

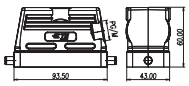
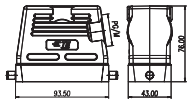
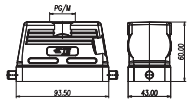
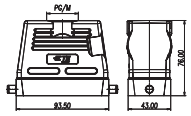
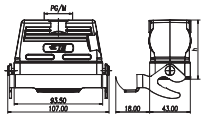
| Construction | H |
|---|---|
| Low | 60 |
| Hight | 76 |

| **Bulkhead mounted with 4 bolts** | | | | |
|---|---|---|---|---|
| With protection cover  1 Side entry 2 Side entry Low construction 1 Side entry 2 Side entry High construction | M25<br>M25<br>M25<br>M32<br>M25<br>M32 | H16B-AD-BO<br>PG21<br>PG21<br>PG29<br>PG21<br>PG29 | H16B-AD-BO<br>H16B-SDR-BO-PG21<br>H16B-SDR-BO-M25<br>H16B-SDR-BO-2PG21<br>H16B-SDR-BO-2M25<br>H16B-SDRH-BO-PG21<br>H16B-SDRH-BO-PG29<br>H16B-SDRH-BO-M25<br>H16B-SDRH-BO-M32<br>H16B-SDRH-BO-2PG21<br>H16B-SDRH-BO-2PG29<br>H16B-SDRH-BO-2M25<br>H16B-SDRH-BO-2M32 | T1430160000-000<br>T1460160121-000<br>T1460160125-000<br>T1460160221-000<br>T1460160225-000<br>T1490160121-000<br>T1490160129-000<br>T1490160125-000<br>T1490160132-000<br>T1490160221-000<br>T1490160229-000<br>T1490160225-000<br>T1490160232-000 |

| 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 with 1 lever on the hoods/housings

POWDER-COATED, RAL 7037

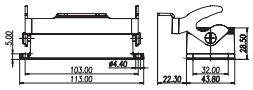
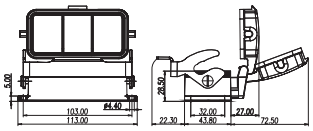
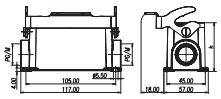
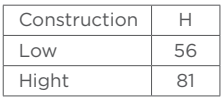
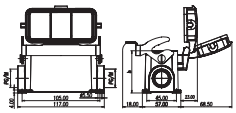
| Dimensions (mm) | | Metr. | PG | Type | Part Number |
|---|---|---|---|---|---|
| Hood: Side entry | | | | | |
| | Low construction  | M25<br>M32 | PG21<br>PG29 | H16B-TS-RO-PG21<br>H16B-TS-RO-PG29<br>H16B-TS-RO-M25<br>H16B-TS-RO-M32 | T1310160121-000<br>T1310160129-000<br>T1310160125-000<br>T1310160132-000 |
| | High construction  | M25<br>M32<br>M40 | PG21<br>PG29 | H16B-TSH-RO-PG21<br>H16B-TSH-RO-PG29<br>H16B-TSH-RO-M25<br>H16B-TSH-RO-M32<br>H16B-TSH-RO-M40 | T1330160121-000<br>T1330160129-000<br>T1330160125-000<br>T1330160132-000<br>T1330160140-000 |
| Hood: Top entry | | | | | |
| | Low construction  | M25<br>M32 | PG21<br>PG29 | H16B-TG-RO-PG21<br>H16B-TG-RO-PG29<br>H16B-TG-RO-M25<br>H16B-TG-RO-M32 | T1320160121-000<br>T1320160129-000<br>T1320160125-000<br>T1320160132-000 |
| | High construction  | M25<br>M32<br>M40 | PG21<br>PG29 | H16B-TGH-RO-PG21<br>H16B-TGH-RO-PG29<br>H16B-TGH-RO-M25<br>H16B-TGH-RO-M32<br>H16B-TGH-RO-M40 | T1340160121-000<br>T1340160129-000<br>T1340160125-000<br>T1340160132-000<br>T1340160140-000 |
| Cable-to-cable hood | | | | | |
| |  Low construction High construction<br>Construction / H<br>Low / 62.5<br>Hight / 74.5 | M25<br>M32<br><br>M25<br>M32<br>M40 | PG21<br>PG29<br><br>PG21<br>PG29 | H16B-TBF-LB-PG21<br>H16B-TBF-LB-PG29<br>H16B-TBF-LB-M25<br>H16B-TBF-LB-M32<br>H16B-TBFH-LB-PG21<br>H16B-TBFH-LB-PG29<br>H16B-TBFH-LB-M25<br>H16B-TBFH-LB-M32<br>H16B-TBFH-LB-M40 | T1730163121-000<br>T1730163129-000<br>T1730163125-000<br>T1730163132-000<br>T1770163121-000<br>T1770163129-000<br>T1770163125-000<br>T1770163132-000<br>T1770163140-000 |
| Protection covers for hoods | | | | | |
| | | | | H16B-KDTP-LB | T1010161500-000 |



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

## H16B with 1 lever on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | Metr. | PG | Type | Part Number |
|---|---|---|---|---|
| Bulkhead mounted | | | | |
|  | | | H16B-AG-LB | T1500163000-000 |
| With protection cover  | | | H16B-AD-LB | T1510163000-000 |
| Surface mounted: Side entry | | | | |
|   | M20<br>M25<br><br><br>M20<br>M25<br><br>M25<br>M32<br><br><br>M25<br>M32 | PG16<br>PG21<br>PG16<br>PG21<br>PG21<br>PG29<br>PG21<br>PG29 | H16B-SGR-LB-PG16<br>H16B-SGR-LB-PG21<br>H16B-SGR-LB-M20<br>H16B-SGR-LB-M25<br>H16B-SGR-LB-2PG16<br>H16B-SGR-LB-2PG21<br>H16B-SGR-LB-2M20<br>H16B-SGR-LB-2M25<br>H16B-SGRH-LB-PG21<br>H16B-SGRH-LB-PG29<br>H16B-SGRH-LB-M25<br>H16B-SGRH-LB-M32<br>H16B-SGRH-LB-2PG21<br>H16B-SGRH-LB-2PG29<br>H16B-SGRH-LB-2M25<br>H16B-SGRH-LB-2M32 | T1610163116-000<br>T1610163121-000<br>T1610163120-000<br>T1610163125-000<br>T1610163216-000<br>T1610163221-000<br>T1610163220-000<br>T1610163225-000<br>T1650163121-000<br>T1650163129-000<br>T1650163125-000<br>T1650163132-000<br>T1650163221-000<br>T1650163229-000<br>T1650163225-000<br>T1650163232-000 |
| With protection cover   | M20<br>M25<br><br><br>M20<br>M25<br><br>M25<br>M32<br><br><br>M25<br>M32 | PG16<br>PG21<br>PG16<br>PG21<br>PG21<br>PG29<br>PG21<br>PG29 | H16B-SDR-LB-PG16<br>H16B-SDR-LB-PG21<br>H16B-SDR-LB-M20<br>H16B-SDR-LB-M25<br>H16B-SDR-LB-2PG16<br>H16B-SDR-LB-2PG21<br>H16B-SDR-LB-2M20<br>H16B-SDR-LB-2M25<br>H16B-SDRH-LB-PG21<br>H16B-SDRH-LB-PG29<br>H16B-SDRH-LB-M25<br>H16B-SDRH-LB-M32<br>H16B-SDRH-LB-2PG21<br>H16B-SDRH-LB-2PG29<br>H16B-SDRH-LB-2M25<br>H16B-SDRH-LB-2M32 | T1620163116-000<br>T1620163121-000<br>T1620163120-000<br>T1620163125-000<br>T1620163216-000<br>T1620163221-000<br>T1620163220-000<br>T1620163225-000<br>T1660163121-000<br>T1660163129-000<br>T1660163125-000<br>T1660163132-000<br>T1660163221-000<br>T1660163229-000<br>T1660163225-000<br>T1660163232-000 |

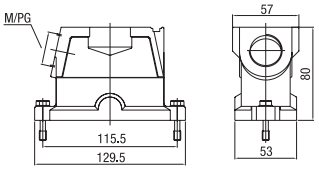
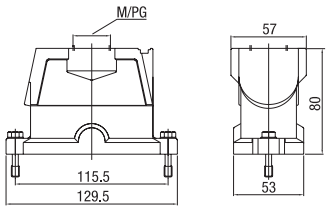
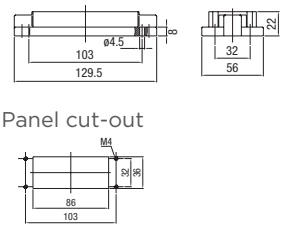
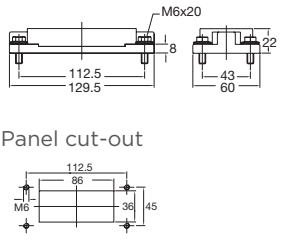
| Construction | H |
|---|---|
| Low | 56 |
| Hight | 81 |

1 Side entry
Low construction
2 Side entry
1 Side entry
High construction
2 Side entry

## 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**<br>HIP.16/40.STS.1.21.G | 1-1102649-5 |
| | | | 29 | HIP.16/40.STS.1.29.G | 1-1102651-5 |
| | | | | HIP.16/40.STS.1.M32.G | 0-1106454-2 |
| | | | 29 | **HIP-K**<br>HIP-K.16/40.STS.1.29.G | 2-1102651-5 |
| | | M32 | | HIP-K.16/40.STS.1.M32.G | 0-1106444-2 |
| | | | 29 | **EMV-K**<br>EMV-K.16/40.STS.1.29.G | 4-1102723-5 |
| | | M32 | | EMV-K.16/40.STS.1.M32.G | 0-1106446-4 |
| | | | 21 | EMV-K.16/40.STS.1.21.G | 4-1102722-5 |
| **Hood:** Top entry | | | | | |
| |  | | | **HIP** | |
| | | | 21 | HIP.16/40.STO.1.21.G | 1-1102653-5 |
| | | | 29 | HIP.16/40.STO.1.29.G | 1-1102655-5 |
| | | M32 | | HIP.16/40.STO.1.M32.G | 0-1106454-1 |
| | | | | **HIP-K** | |
| | | | 21 | HIP-K.16/40.STO.2.21.G | 0-1108534-1 |
| | | | 29 | HIP-K.16/40.STO.1.29.G | 2-1102655-5 |
| | | M32 | | HIP-K.16/40.STO.1.M32.G | 0-1106444-1 |
| | | | | **EMV-K** | |
| | | | 29 | EMV-K.16/40.STO.1.29.G | 4-1102725-5 |
| | | M32 | | EMV-K.16/40.STO.1.M32.G | 0-1106446-3 |
| **Surface mounted housing:** Bottom entry | | | | | |
| |  | | | **HIP**<br>HIP.16/40.AG | 1-1102656-5 |
| | | | | **HIP-K**<br>HIP-K.16/40.AG | 2-1102656-5 |
| | | | | **EMV-K**<br>EMV-K.16/40.AG | 4-1102728-5 |
| |  | | | **HIP**<br>HIP.16/40.AG.M6 | 1-1102618-5 |
| | | | | **HIP-K**<br>HIP-K.16/40.AG.M6 | 2-1102618-5 |
| | | | | **EMV-K**<br>EMV-K.16/40.AG.M6 | 4-1102730-5 |

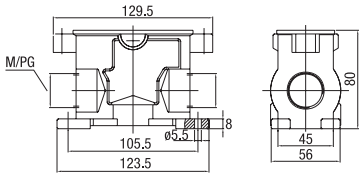
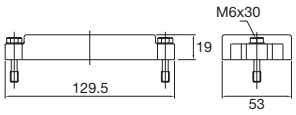


All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

## 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**

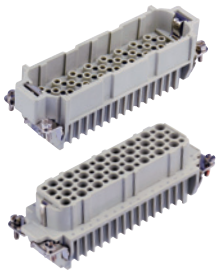
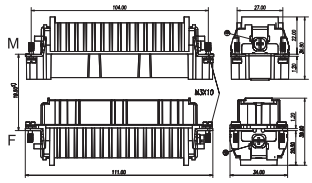
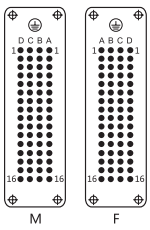
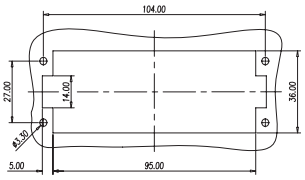
| Description | | Metr. | PG | Type | Part Number |
|---|---|---|---|---|---|
| **Surface mounted housing:** Side entry | | | | | |
| |  | | | **HIP** | |
| | | | 21 | HIP.16/40.SG.1.21.G | 1-1102616-5 |
| | | | 2x21 | HIP.16/40.SG.2.21.G | 1-1102617-5 |
| | | 2xM32 | | HIP.16/40.SG.2.M32.G | 0-1106453-1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

## HD-064 inserts

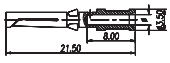
INSERTS FOR H24B HOOD/HOUSING

250V 10A

64+⏚ (machined contacts)

| Dimensions (mm) | | Type | Part Number | |
|---|---|---|---|---|
| | | | Male insert | Female insert |
| Crimp terminal (order crimp contacts separately) | | | | |
|  |  | HD-064-M | T2020642101-000 | |
| | | HD-064-F | | T2020642201-000 |
| Contact arrangement view from termination side | Panel cut out for inserts for use without hoods/housings | | | |
|  |  | | | |

### 10A Contact

| Tech data<br>**Material:**<br>copper alloy<br>**Contact resistance:** ≤3mΩ<br>**Terminal:**<br>crimp connection | 10A Male crimp contacts | Wire gauge | | Strip-ping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|---|---|---|---|---|---|---|
| | | mm² | AWG | mm | Type | Part Number | Type | Part Number |
| **CDM/Male** | | 0.14-0.37 | 26-22 | 8.0 | CDM-0.14 | T2020001002-000 | DDM-0.14 | T2020011002-000 |
| | | 0.5 | 20 | 8.0 | CDM-0.5 | T2020001005-000 | DDM-0.5 | T2020011005-000 |
| | | 0.75 | 18 | 8.0 | CDM-0.75 | T2020001008-000 | DDM-0.75 | T2020011008-000 |
| | | 1.0 | 18 | 8.0 | CDM-1.0 | T2020001010-000 | DDM-1.0 | T2020011010-000 |
| | | 1.5 | 16 | 8.0 | CDM-1.5 | T2020001015-000 | DDM-1.5 | T2020011015-000 |
| | | 2.5 | 14 | 6.0 | CDM-2.5 | T2020001025-000 | DDM-2.5 | T2020011025-000 |
| **CDF/Female** | 10A Female crimp contacts  | 0.14-0.37 | 26-22 | 8.0 | CDF-0.14 | T2020002002-000 | DDF-0.14 | T2020012002-000 |
| | | 0.5 | 20 | 8.0 | CDF-0.5 | T2020002005-000 | DDF-0.5 | T2020012005-000 |
| | | 0.75 | 18 | 8.0 | CDF-0.75 | T2020002008-000 | DDF-0.75 | T2020012008-000 |
| | | 1.0 | 18 | 8.0 | CDF-1.0 | T2020002010-000 | DDF-1.0 | T2020012010-000 |
| | | 1.5 | 16 | 8.0 | CDF-1.5 | T2020002015-000 | DDF-1.5 | T2020012015-000 |
| | | 2.5 | 14 | 6.0 | CDF-2.5 | T2020002025-000 | DDF-2.5 | T2020012025-000 |



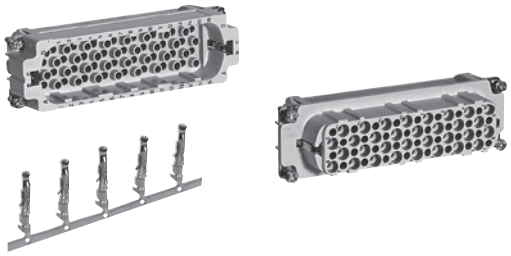
All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

# HD-064 inserts

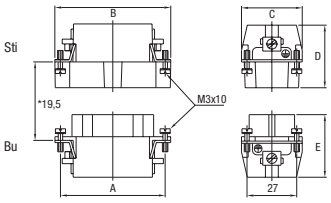
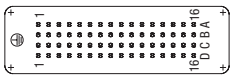
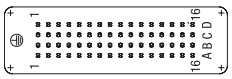
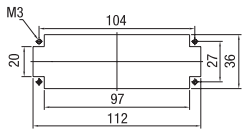
INSERTS FOR H24B HOOD/HOUSING

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**

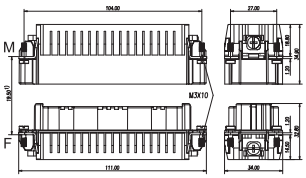
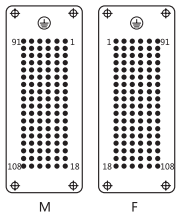
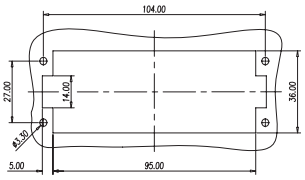
| Dimensions (mm) | Contact arrangement | | Panel cut-out |
|---|---|---|---|
| | Male insert | Female insert | |
|  |  |  |  |

## HDD-108 inserts

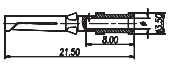
INSERTS FOR H24B HOOD/HOUSING

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

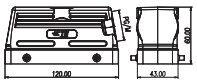
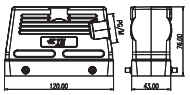
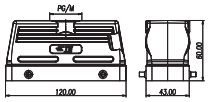
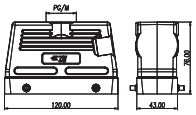
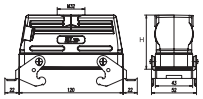
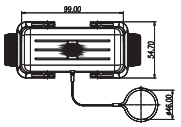
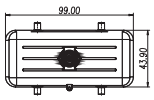
| Tech data<br>**Material:**<br>copper alloy<br>**Contact resistance:** ≤3mΩ<br>**Terminal:**<br>crimp connection | 10A Male crimp contacts | Wire gauge | | Stripping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|---|---|---|---|---|---|---|
| | | mm² | AWG | mm | Type | Part Number | Type | Part Number |
| **CDM/Male** | | 0.14-0.37 | 26-22 | 8.0 | CDM-0.14 | T2020001002-000 | DDM-0.14 | T2020011002-000 |
| | | 0.5 | 20 | 8.0 | CDM-0.5 | T2020001005-000 | DDM-0.5 | T2020011005-000 |
| | | 0.75 | 18 | 8.0 | CDM-0.75 | T2020001008-000 | DDM-0.75 | T2020011008-000 |
| | | 1.0 | 18 | 8.0 | CDM-1.0 | T2020001010-000 | DDM-1.0 | T2020011010-000 |
| | | 1.5 | 16 | 8.0 | CDM-1.5 | T2020001015-000 | DDM-1.5 | T2020011015-000 |
| | | 2.5 | 14 | 6.0 | CDM-2.5 | T2020001025-000 | DDM-2.5 | T2020011025-000 |
| **CDF/Female** | 10A Female crimp contacts  | 0.14-0.37 | 26-22 | 8.0 | CDF-0.14 | T2020002002-000 | DDF-0.14 | T2020012002-000 |
| | | 0.5 | 20 | 8.0 | CDF-0.5 | T2020002005-000 | DDF-0.5 | T2020012005-000 |
| | | 0.75 | 18 | 8.0 | CDF-0.75 | T2020002008-000 | DDF-0.75 | T2020012008-000 |
| | | 1.0 | 18 | 8.0 | CDF-1.0 | T2020002010-000 | DDF-1.0 | T2020012010-000 |
| | | 1.5 | 16 | 8.0 | CDF-1.5 | T2020002015-000 | DDF-1.5 | T2020012015-000 |
| | | 2.5 | 14 | 6.0 | CDF-2.5 | T2020002025-000 | DDF-2.5 | T2020012025-000 |



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

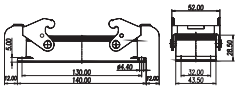
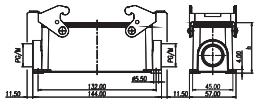
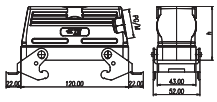
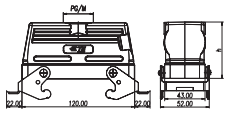
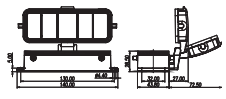
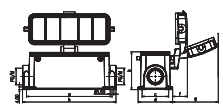
## H24B with 2 levers on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | | Metr. | PG | Type | Part Number |
|---|---|---|---|---|---|
| Hood: Side entry | | | | | |
| | Low construction  | M25<br>M32 | PG16<br>PG21 | H24B-TS-PG16<br>H24B-TS-PG21<br>H24B-TS-M25<br>H24B-TS-M32 | T1210240116-000<br>T1210240121-000<br>T1210240125-000<br>T1210240132-000 |
| | High construction  | M25<br>M32<br>M40 | PG21<br>PG29 | H24B-TSH-PG21<br>H24B-TSH-PG29<br>H24B-TSH-M25<br>H24B-TSH-M32<br>H24B-TSH-M40 | T1230240121-000<br>T1230240129-000<br>T1230240125-000<br>T1230240132-000<br>T1230240140-000 |
| Hood: Top entry | | | | | |
| | Low construction  | M25<br>M32 | PG16<br>PG21 | H24B-TG-PG16<br>H24B-TG-PG21<br>H24B-TG-M25<br>H24B-TG-M32 | T1220240116-000<br>T1220240121-000<br>T1220240125-000<br>T1220240132-000 |
| | High construction  | M25<br>M32<br>M40 | PG21<br>PG29 | H24B-TGH-PG21<br>H24B-TGH-PG29<br>H24B-TGH-M25<br>H24B-TGH-M32<br>H24B-TGH-M40 | T1240240121-000<br>T1240240129-000<br>T1240240125-000<br>T1240240132-000<br>T1240240140-000 |
| Cable-to-cable hood | | | | | |
| |  Low construction High construction<br>Construction / H<br>Low / 62.5<br>Hight / 78.5 | M25<br>M32<br><br><br>M25<br>M32<br>M40 | PG21<br><br><br>PG21<br>PG29 | H24B-TBFS-PG21<br>H24B-TBFS-M25<br>H24B-TBFS-M32<br>H24B-TBFHS-PG21<br>H24B-TBFHS-PG29<br>H24B-TBFHS-M25<br>H24B-TBFHS-M32<br>H24B-TBFHS-M40 | T1710241121-000<br>T1710241125-000<br>T1710241132-000<br>T1750241121-000<br>T1750241129-000<br>T1750241125-000<br>T1750241132-000<br>T1750241140-000 |
| Protection covers for hoods | | | | | |
| |  | | | H24B-KDTP | T1010241400-000 |
| Housing protection cover | | | | | |
| |  | | | H24B-KDBP | T1010242100-000 |

## H24B with 2 levers on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | Metr. | PG | Type | Part Number |
|---|---|---|---|---|
| **Bulkhead mounted** | | | | |
|  | | | H24B-AGS | T1410241000-000 |
| **Surface mounted: Side entry** | | | | |
|  | M25<br>M25<br><br><br>M25<br>M32<br><br><br>M25<br>M32 | PG21<br><br>PG21<br><br>PG21<br>PG29<br><br><br>PG21<br>PG29<br><br><br> | H24B-SGRS-PG21<br>H24B-SGRS-M25<br>H24B-SGRS-2PG21<br>H24B-SGRS-2M25<br>H24B-SGRHS-PG21<br>H24B-SGRHS-PG29<br>H24B-SGRHS-M25<br>H24B-SGRHS-M32<br>H24B-SGRHS-2PG21<br>H24B-SGRHS-2PG29<br>H24B-SGRHS-2M25<br>H24B-SGRHS-2M32 | T1440241121-000<br>T1440241125-000<br>T1440241221-000<br>T1440241225-000<br>T1470241121-000<br>T1470241129-000<br>T1470241125-000<br>T1470241132-000<br>T1470241221-000<br>T1470241229-000<br>T1470241225-000<br>T1470241232-000 |
| **Side entry housing with two levers** | | | | |
|  | M20<br>M25<br><br><br>M25<br>M32 | PG16<br>PG21<br><br><br>PG21<br>PG29<br><br><br> | H24B-TSBS-PG16<br>H24B-TSBS-PG21<br>H24B-TSBS-M20<br>H24B-TSBS-M25<br>H24B-TSBHS-PG21<br>H24B-TSBHS-PG29<br>H24B-TSBHS-M25<br>H24B-TSBHS-M32 | T1250243116-000<br>T1250243121-000<br>T1250243120-000<br>T1250243125-000<br>T1270243121-000<br>T1270243129-000<br>T1270243125-000<br>T1270243132-000 |
| **Top entry housing with two levers** | | | | |
|  | M20<br>M25<br><br><br>M25<br>M32 | PG16<br>PG21<br><br><br>PG21<br>PG29<br><br><br> | H24B-TGBS-PG16<br>H24B-TGBS-PG21<br>H24B-TGBS-M20<br>H24B-TGBS-M25<br>H24B-TGBHS-PG21<br>H24B-TGBHS-PG29<br>H24B-TGBHS-M25<br>H24B-TGBHS-M32 | T1260243116-000<br>T1260243121-000<br>T1260243120-000<br>T1260243125-000<br>T1280243121-000<br>T1280243129-000<br>T1280243125-000<br>T1280243132-000 |
| **Bulkhead mounted with 4 bolts** | | | | |
| With protection cover   | <br><br>M25<br><br>M25<br><br><br>M25<br>M32<br><br><br>M25<br>M32 | <br><br>PG21<br><br>PG21<br><br>PG21<br>PG29<br><br><br>PG21<br>PG29<br><br><br> | H24B-AD-BO<br><br>H24B-SDR-BO-PG21<br>H24B-SDR-BO-M25<br>H24B-SDR-BO-2PG21<br>H24B-SDR-BO-2M25<br>H24B-SDRH-BO-PG21<br>H24B-SDRH-BO-PG29<br>H24B-SDRH-BO-M25<br>H24B-SDRH-BO-M32<br>H24B-SDRH-BO-2PG21<br>H24B-SDRH-BO-2PG29<br>H24B-SDRH-BO-2M25<br>H24B-SDRH-BO-2M32 | T1430240000-000<br><br>T1460240121-000<br>T1460240125-000<br>T1460240221-000<br>T1460240225-000<br>T1490240121-000<br>T1490240129-000<br>T1490240125-000<br>T1490240132-000<br>T1490240221-000<br>T1490240229-000<br>T1490240225-000<br>T1490240232-000 |

| Construction | H |
|---|---|
| Low | 56 |
| Hight | 81 |

| Construction | H |
|---|---|
| Low | 60 |
| Hight | 76 |

| Construction | H |
|---|---|
| Low | 60 |
| Hight | 76 |

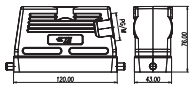
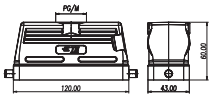
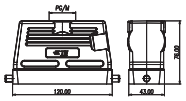
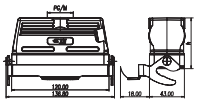
| Construction | A | B | C | D | F | G | H |
|---|---|---|---|---|---|---|---|
| Low | 132 | 144 | 45 | 57 | 20 | 65 | 56 |
| Hight | 132 | 144 | 45 | 57 | 20 | 65 | 81 |



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

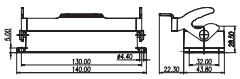
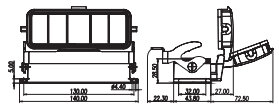
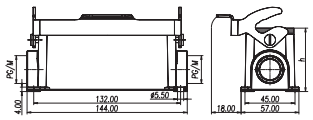
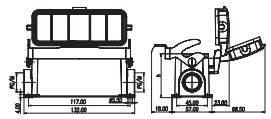
## H24B with 1 lever on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | | Metr. | PG | Type | Part Number |
|---|---|---|---|---|---|
| Hood: Side entry | | | | | |
| | Low construction | M25<br>M32 | PG21<br>PG29 | H24B-TS-RO-PG21<br>H24B-TS-RO-PG29<br>H24B-TS-RO-M25<br>H24B-TS-RO-M32 | T1310240121-000<br>T1310240129-000<br>T1310240125-000<br>T1310240132-000 |
| | High construction  | M25<br>M32<br>M40 | PG21<br>PG29 | H24B-TSH-RO-PG21<br>H24B-TSH-RO-PG29<br>H24B-TSH-RO-M25<br>H24B-TSH-RO-M32<br>H24B-TSH-RO-M40 | T1330240121-000<br>T1330240129-000<br>T1330240125-000<br>T1330240132-000<br>T1330240140-000 |
| Hood: Top entry | | | | | |
| | Low construction  | M25<br>M32 | PG21<br>PG29 | H24B-TG-RO-PG21<br>H24B-TG-RO-PG29<br>H24B-TG-RO-M25<br>H24B-TG-RO-M32 | T1320240121-000<br>T1320240129-000<br>T1320240125-000<br>T1320240132-000 |
| | High construction  | M25<br>M32<br>M40 | PG21<br>PG29 | H24B-TGH-RO-PG21<br>H24B-TGH-RO-PG29<br>H24B-TGH-RO-M25<br>H24B-TGH-RO-M32<br>H24B-TGH-RO-M40 | T1340240121-000<br>T1340240129-000<br>T1340240125-000<br>T1340240132-000<br>T1340240140-000 |
| Cable-to-cable hood | | | | | |
| |  Low construction High construction<br>Construction / H<br>Low / 62.5<br>Hight / 78.5 | M25<br>M32<br><br>M25<br>M32<br>M40 | PG21<br>PG29<br><br>PG21<br>PG29 | H24B-TBF-LB-PG21<br>H24B-TBF-LB-PG29<br>H24B-TBF-LB-M25<br>H24B-TBF-LB-M32<br>H24B-TBFH-LB-PG21<br>H24B-TBFH-LB-PG29<br>H24B-TBFH-LB-M25<br>H24B-TBFH-LB-M32<br>H24B-TBFH-LB-M40 | T1730242121-000<br>T1730242129-000<br>T1730242125-000<br>T1730242132-000<br>T1770243121-000<br>T1770243129-000<br>T1770243125-000<br>T1770243132-000<br>T1770243140-000 |
| Protection covers for hoods | | | | | |
| | | | | H24B-KDTP-LB | T1010241500-000 |

## H24B with 1 lever on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | Metr. | PG | Type | Part Number |
|---|---|---|---|---|
| Bulkhead mounted | | | | |
|  | | | H24B-AG-LB | T1500243000-000 |
| With protection cover  | | | H24B-AD-LB | T1510243000-000 |
| Surface mounted: Side entry | | | | |
|  1 Side entry Low construction 2 Side entry 1 Side entry High construction 2 Side entry | M20<br>M25<br><br><br>M20<br>M25<br><br><br>M25<br>M32<br><br><br>M25<br>M32 | PG16<br>PG21<br><br><br>PG16<br>PG21<br><br><br>PG21<br>PG29<br><br><br>PG21<br>PG29<br><br><br>M25<br>M32 | H24B-SGR-LB-PG16<br>H24B-SGR-LB-PG21<br>H24B-SGR-LB-M20<br>H24B-SGR-LB-M25<br>H24B-SGR-LB-2PG16<br>H24B-SGR-LB-2PG21<br>H24B-SGR-LB-2M20<br>H24B-SGR-LB-2M25<br>H24B-SGRH-LB-PG21<br>H24B-SGRH-LB-PG29<br>H24B-SGRH-LB-M25<br>H24B-SGRH-LB-M32<br>H24B-SGRH-LB-2PG21<br>H24B-SGRH-LB-2PG29<br>H24B-SGRH-LB-2M25<br>H24B-SGRH-LB-2M32 | T1610243116-000<br>T1610243121-000<br>T1610243120-000<br>T1610243125-000<br>T1610243216-000<br>T1610243221-000<br>T1610243220-000<br>T1610243225-000<br>T1650243121-000<br>T1650243129-000<br>T1650243125-000<br>T1650243132-000<br>T1650243221-000<br>T1650243229-000<br>T1650243225-000<br>T1650243232-000 |
| With protection cover  1 Side entry Low construction 2 Side entry 1 Side entry High construction 2 Side entry | M20<br>M25<br><br><br>M20<br>M25<br><br><br>M25<br>M32<br><br><br>M25<br>M32 | PG16<br>PG21<br><br><br>PG16<br>PG21<br><br><br>PG21<br>PG29<br><br><br>PG21<br>PG29<br><br><br>M25<br>M32 | H24B-SDR-LB-PG16<br>H24B-SDR-LB-PG21<br>H24B-SDR-LB-M20<br>H24B-SDR-LB-M25<br>H24B-SDR-LB-2PG16<br>H24B-SDR-LB-2PG21<br>H24B-SDR-LB-2M20<br>H24B-SDR-LB-2M25<br>H24B-SDRH-LB-PG21<br>H24B-SDRH-LB-PG29<br>H24B-SDRH-LB-M2S<br>H24B-SDRH-LB-M32<br>H24B-SDRH-LB-2PG21<br>H24B-SDRH-LB-2PG29<br>H24B-SDRH-LB-2M25<br>H24B-SDRH-LB-2M32 | T1620243116-000<br>T1620243121-000<br>T1620243120-000<br>T1620243125-000<br>T1620243216-000<br>T1620243221-000<br>T1620243220-000<br>T1620243225-000<br>T1660243121-000<br>T1660243129-000<br>T1660243125-000<br>T1660243132-000<br>T1660243221-000<br>T1660243229-000<br>T1660243225-000<br>T1660243232-000 |

| Construction | H |
|---|---|
| Low | 56 |
| Hight | 81 |

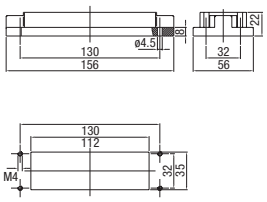
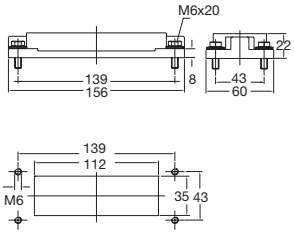
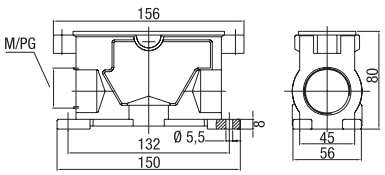
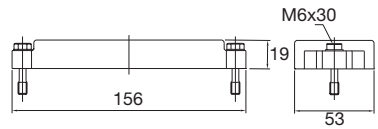


All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

## 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

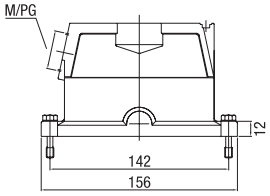
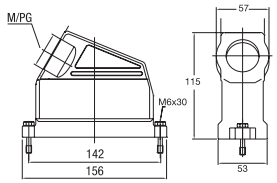
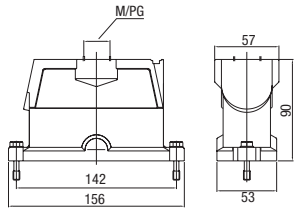
**Pressure-tight up to 5 bar** **IP 68 / IP 69 K**

| Description | | Metr. | PG | Type | Part Number |
|---|---|---|---|---|---|
| **Surface mounted housing:** Bottom entry, Standard construction | | | | | |
| |  | | | **HIP**<br>HIP.24/64.AG<br><br>**HIP-K**<br>HIP-K.24/64.AG<br><br>**EMV-K**<br>EMV-K.24/64.AG | <br>1-1102665-5<br><br><br>2-1102665-5<br><br><br>4-1102760-5 |
| |  | | | **HIP**<br>HIP.24/64.AG.M6<br><br>**HIP-K**<br>HIP-K.24/64.AG.M6<br>HIP-K.24/64.AG.M6.D<br>HIP-K-I.24/64.AG.M6.D<br><br>**EMV-K**<br>EMV-K.24/64.AG.M6 | <br>1-1102626-5<br><br><br>2-1102626-5<br>2-1102628-5<br>0-1108533-1<br><br><br>4-1102736-5 |
| **Surface mounted housing:** Side entry, Standard construction | | | | | |
| |  | 2xM40<br><br><br><br><br>2xM40<br><br><br><br>2xM40 | 29<br>2x29<br><br><br>29<br>2x29<br><br><br>29<br>2x29 | **HIP**<br>HIP.24/64.SG.1.29.G<br>HIP.24/64.SG.2.29.G<br>HIP.24/64.SG.2.M40.G<br><br>**HIP-K**<br>HIP-K.24/64.SG.1.29.G<br>HIP-K.24/64.SG.2.29.G<br>HIP-K.24/64.SG.2.M40.G<br><br>**EMV-K**<br>EMV-K.24/64.SG.1.29.G<br>EMV-K.24/64.SG.2.29.G<br>EMV-K.24/64.SG.2.M40.G | <br>1-1102624-5<br>1-1102625-5<br>0-1106472-1<br><br><br>5-1102624-5<br>2-1102625-5<br>0-1106472-2<br><br><br>4-1102734-5<br>4-1102735-5<br>0-1106460-2 |
| **Protective cover housings** | | | | | |
| |  | | | **HIP**<br>HIP/EMV.24/64.SKB<br><br>**HIP-K/EMV-K**<br>HIP-K/EMV-K.24/64.SKB | <br>3-1106204-5<br><br><br>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<br>29 | **HIP**<br>HIP.24/64.STS.1.21.G<br>HIP.24/64.STS.1.29 G<br>HIP.24/64.STS.1.M40.G | 1-1102658-5<br>1-1102660-5<br>0-1106473-2 |
| | | M40 | 29 | **HIP-K**<br>HIP-K.24/64.STS.1.29.G<br>HIP-K.24/64.STS.1.M40.G | 2-1102660-5<br>0-1106473-4 |
| | | M25<br>M32<br>M40 | 29 | **EMV-K**<br>EMV-K.24/64.STS.1.29.G<br>EMV-K.24/64.STS.1.M25.G<br>EMV-K.24/64.STS.1.M32.G<br>EMV-K.24/64.STS.1.M40.G | 4-1102755-5<br>0-1102983-1<br>0-1106461-8<br>0-1106461-3 |
| |  | M40 | 29<br>36 | **HIP**<br>HIP-KF.24/64.STS.1.29.G<br>HIP-KF.24/64.STS.1.36.G<br>HIP-KF.24/64.STS.1.M40.G | 1-1102622-5<br>1-1102623-5<br>0-1106474-1 |
| | | M40 | 29<br>36 | **HIP-K**<br>HIP-KF/K.24/64.STS.1.29.G<br>HIP-KF/K. 24/64.STS.1.36G<br>HIP-KF/K.24/64.STS.1.M40.G | 2-1102622-5<br>2-1102623-5<br>0-1106474-2 |
| | | M40 | 29<br>36 | **EMV-K**<br>EMV-KF/K.24/64.STS.1.29.G<br>EMV-KF/K.24/64.STS.1.36.G<br>EMV-KF/K.24/64.STS.1.M40.G | 4-1102732-5<br>4-1102733-5<br>0-1106462-2 |
| **Hood:** Top entry, Standard construction | | | | | |
| |  | M40 | 21<br>29 | **HIP**<br>HIP.24/64.STO.1.21.G<br>HIP.24/64.STO.1.29.G<br>HIP.24/64.STO.1.M40.G | 1-1102662-5<br>1-1102664-5<br>0-1106473-1 |
| | | 2xM32<br>M40 | 29 | **HIP-K**<br>HIP-K.24/64.STO.1.29.G<br>HIP-K.24/64.STO.2.M32.G<br>HIP-K.24/64.STO.1.M40.G | 2-1102664-5<br>0-1102792-1<br>0-1106473-3 |
| | | M40<br>2xM40 | 29 | **EMV-K**<br>EMV-K.24/64.STO.1.29.G<br>EMV-K.24/64.STO.1.M40.G | 4-1102759-5<br>0-1106461-4 |
| | | 2xM40 | | | |
| | | 2xM40 | | | |

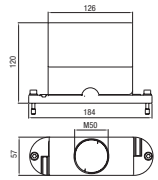
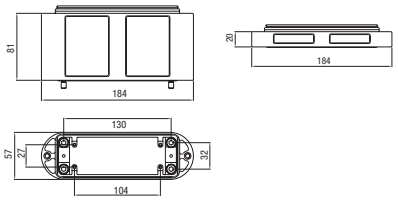
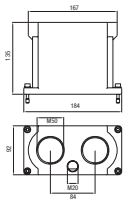
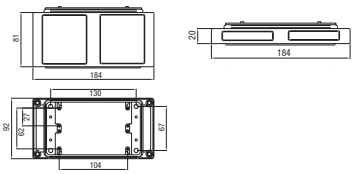


All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

## 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

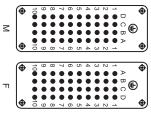
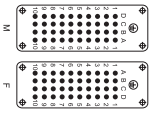
| Description | | Metr. | PG | Type | Part Number |
|---|---|---|---|---|---|
| Hood | | | | | |
| |  | 1xM50<br>1xM50<br>2xM40<br>2xM40 | | HF-HIP-K.8.Sto.1.M50G<br>HF.8.EMV-K.8.Sto.1.M50G<br>HF.HIP-K.8.Sto.2.M40G<br>HF.EMV-K.8.Sto.2.M40G | 0-1102839-4<br>0-1102839-3<br>0-1102839-2<br>0-1102839-1 |
| Housing bottom | | | | | |
| |  | Height | | | |
| | | 81 mm<br>81 mm | 20 mm<br>20 mm | HF-HIP-K.8.AG.N<br>HF-EMV-K.8.AG.N<br>HF-HIP-K.8.AG<br>HF-EMV-K.8.AG | 0-1102837-2<br>0-1102837-1<br>0-1102836-2<br>0-1102836-1 |
| Hood | | | | | |
| |  | 2xM40<br>2xM40<br>2xM50<br>2xM50 | | HF-HIP-K.12.Sto.2.M40G<br>HF-EMV-K.12.Sto.2.M40G<br>HF-HIP-K.12.Sto.2.M50G<br>HF-EMV-K.12.Sto.2.M50G | 0-1102840-2<br>0-1102840-1<br>0-1102840-4<br>0-1102840-3 |
| Housing bottom | | | | | |
| |  | Height | | | |
| | | 81 mm<br>81 mm | 20 mm<br>20 mm | HF-HIP-K.12.AG.N<br>HF-EMV-K.12.AG.N<br>HF-HIP-K.12.AG<br>HF-EMVK-K.12.AG | 0-1102838-2<br>0-1102838-1<br>0-1102192-2<br>0-1102192-1 |

## HD-080 inserts

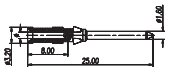
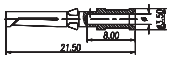
INSERTS FOR H32B HOOD/HOUSING

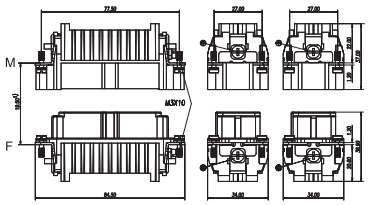
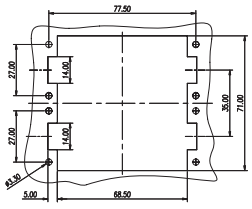
250V 10A

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)<br>HD-040-M(41-80) | T2020402101-000<br>T2020802101-000 | |
| |  | HD-040-F(1-40)<br>HD-040-F(41-80) | | T2020402201-000<br>T2020802201-000 |

### 10A Contact

| Tech data<br>**Material:**<br>copper alloy<br>**Contact resistance:** ≤3mΩ<br>**Terminal:**<br>crimp connection<br>**CDM/Male**<br> | 10A Male crimp contacts<br>  | Wire gauge | | Stripping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|---|---|---|---|---|---|---|
| | | mm² | AWG | mm | Type | Part Number | Type | Part Number |
| | | 0.14-0.37 | 26-22 | 8.0 | CDM-0.14 | T2020001002-000 | DDM-0.14 | T2020011002-000 |
| | | 0.5 | 20 | 8.0 | CDM-0.5 | T2020001005-000 | DDM-0.5 | T2020011005-000 |
| | | 0.75 | 18 | 8.0 | CDM-0.75 | T2020001008-000 | DDM-0.75 | T2020011008-000 |
| | | 1.0 | 18 | 8.0 | CDM-1.0 | T2020001010-000 | DDM-1.0 | T2020011010-000 |
| | | 1.5 | 16 | 8.0 | CDM-1.5 | T2020001015-000 | DDM-1.5 | T2020011015-000 |
| | | 2.5 | 14 | 6.0 | CDM-2.5 | T2020001025-000 | DDM-2.5 | T2020011025-000 |
| **CDF/Female**<br> | 10A Female crimp contacts<br>  | 0.14-0.37 | 26-22 | 8.0 | CDF-0.14 | T2020002002-000 | DDF-0.14 | T2020012002-000 |
| | | 0.5 | 20 | 8.0 | CDF-0.5 | T2020002005-000 | DDF-0.5 | T2020012005-000 |
| | | 0.75 | 18 | 8.0 | CDF-0.75 | T2020002008-000 | DDF-0.75 | T2020012008-000 |
| | | 1.0 | 18 | 8.0 | CDF-1.0 | T2020002010-000 | DDF-1.0 | T2020012010-000 |
| | | 1.5 | 16 | 8.0 | CDF-1.5 | T2020002015-000 | DDF-1.5 | T2020012015-000 |
| | | 2.5 | 14 | 6.0 | CDF-2.5 | T2020002025-000 | DDF-2.5 | T2020012025-000 |

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



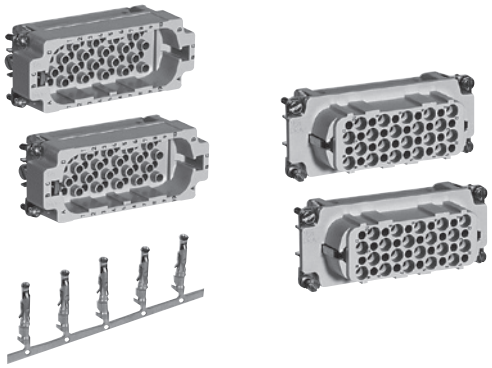
All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

## HD-080 inserts

INSERTS FOR H32B HOOD/HOUSING

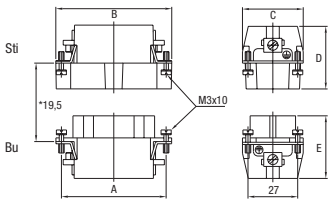
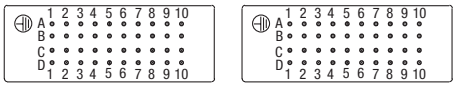
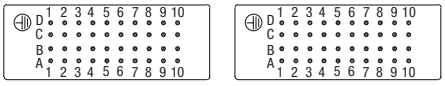
250V 10A

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**

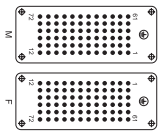
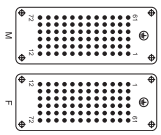
| Dimensions (mm) | Contact arrangement | |
|---|---|---|
| | Male insert | Female insert |
|  |  |  |

## HDD-144 inserts

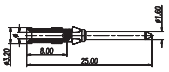
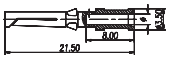
INSERTS FOR H32B HOOD/HOUSING

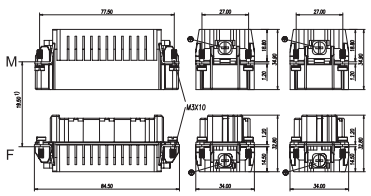
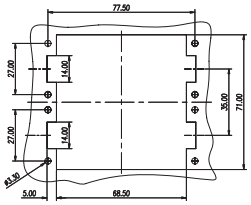
250V 10A

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)<br>HDD-072-M(73-144) | T2030722101-000<br>T2031442101-000 | |
| |  | HDD-072-F(1-72)<br>HDD-072-F(73-144) | | T2030722201-000<br>T2031442201-000 |

### 10A Contact

| Tech data<br>**Material:**<br>copper alloy<br>**Contact resistance:** ≤3mΩ<br>**Terminal:**<br>crimp connection | 10A Male crimp contacts<br>  | Wire gauge | | Strip-ping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|---|---|---|---|---|---|---|
| | | mm² | AWG | mm | Type | Part Number | Type | Part Number |
| **CDM/Male**<br> | | 0.14-0.37 | 26-22 | 8.0 | CDM-0.14 | T2020001002-000 | DDM-0.14 | T2020011002-000 |
| | | 0.5 | 20 | 8.0 | CDM-0.5 | T2020001005-000 | DDM-0.5 | T2020011005-000 |
| | | 0.75 | 18 | 8.0 | CDM-0.75 | T2020001008-000 | DDM-0.75 | T2020011008-000 |
| | | 1.0 | 18 | 8.0 | CDM-1.0 | T2020001010-000 | DDM-1.0 | T2020011010-000 |
| | | 1.5 | 16 | 8.0 | CDM-1.5 | T2020001015-000 | DDM-1.5 | T2020011015-000 |
| | | 2.5 | 14 | 6.0 | CDM-2.5 | T2020001025-000 | DDM-2.5 | T2020011025-000 |
| **CDF/Female**<br> | 10A Female crimp contacts<br>  | 0.14-0.37 | 26-22 | 8.0 | CDF-0.14 | T2020002002-000 | DDF-0.14 | T2020012002-000 |
| | | 0.5 | 20 | 8.0 | CDF-0.5 | T2020002005-000 | DDF-0.5 | T2020012005-000 |
| | | 0.75 | 18 | 8.0 | CDF-0.75 | T2020002008-000 | DDF-0.75 | T2020012008-000 |
| | | 1.0 | 18 | 8.0 | CDF-1.0 | T2020002010-000 | DDF-1.0 | T2020012010-000 |
| | | 1.5 | 16 | 8.0 | CDF-1.5 | T2020002015-000 | DDF-1.5 | T2020012015-000 |
| | | 2.5 | 14 | 6.0 | CDF-2.5 | T2020002025-000 | DDF-2.5 | T2020012025-000 |

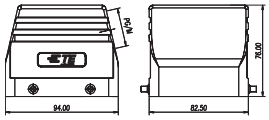
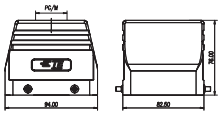
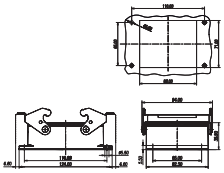
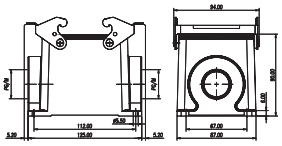
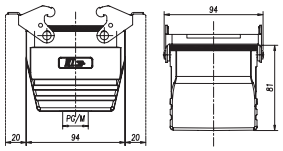
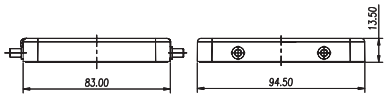
| Distance for contact max. 24mm | Panel cut-out for inserts for use without hoods/housings |
|---|---|
| Crimp terminal<br>  |  |



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

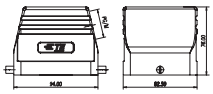
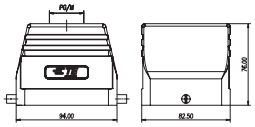
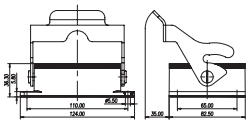
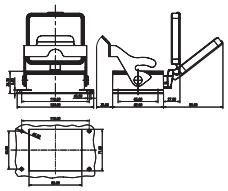
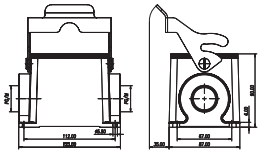
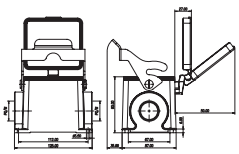
## H32B with 2 levers on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | | Metr. | PG | Type | Part Number |
|---|---|---|---|---|---|
| Hood: Side entry | | | | | |
| |  | M32<br>M40 | PG29<br>PG36 | H32B-TS-PG29<br>H32B-TS-PG36<br>H32B-TS-M32<br>H32B-TS-M40 | T1210320129-000<br>T1210320136-000<br>T1210320132-000<br>T1210320140-000 |
| Hood: Top entry | | | | | |
| |  | M25<br>M32<br>M40<br>M50 | PG21<br>PG29<br>PG36<br>PG42 | H32B-TG-PG21<br>H32B-TG-PG29<br>H32B-TG-PG36<br>H32B-TG-PG42<br>H32B-TG-M25<br>H32B-TG-M32<br>H32B-TG-M40<br>H32B-TG-M50 | T1220320121-000<br>T1220320129-000<br>T1220320136-000<br>T1220320142-000<br>T1220320125-000<br>T1220320132-000<br>T1220320140-000<br>T1220320150-000 |
| Bulkhead mounted | | | | | |
| |  | | | H32B-AG | T1410322000-000 |
| Surface mounted: Side entry | | | | | |
| |  | M32<br>M40<br>M50<br>M63<br>M32<br>M40<br>M50<br>M63 | PG29<br>PG36<br>PG42<br>PG29<br>PG36<br>PG42 | H32B-SGR-PG29<br>H32B-SGR-PG36<br>H32B-SGR-PG42<br>H32B-SGR-M32<br>H32B-SGR-M40<br>H32B-SGR-M50<br>H32B-SGR-M63<br>H32B-SGR-2PG29<br>H32B-SGR-2PG36<br>H32B-SGR-2PG42<br>H32B-SGR-2M32<br>H32B-SGR-2M40<br>H32B-SGR-2M50<br>H32B-SGR-2M63 | T1440322129-000<br>T1440322136-000<br>T1440322142-000<br>T1440322132-000<br>T1440322140-000<br>T1440322150-000<br>T1440322163-000<br>T1440322229-000<br>T1440322236-000<br>T1440322242-000<br>T1440322232-000<br>T1440322240-000<br>T1440322250-000<br>T1440322263-000 |
| Cable-to-cable hood | | | | | |
| |  | M32<br>M40<br>M50<br>M63 | PG29<br>PG36<br>PG42 | H32B-TBF-PG29<br>H32B-TBF-PG36<br>H32B-TBF-PG42<br>H32B-TBF-M32<br>H32B-TBF-M40<br>H32B-TBF-M50<br>H32B-TBF-M63 | T1710322129-000<br>T1710322136-000<br>T1710322142-000<br>T1710322132-000<br>T1710322140-000<br>T1710322150-000<br>T1710322163-000 |
| Protection covers for hoods | | | | | |
| |  | | | H32B-KDB | T1000321220-000 |

## H32B with 1 lever on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | | Metr. | PG | Type | Part Number |
|---|---|---|---|---|---|
| Hood: Side entry | | | | | |
| |  | M32<br>M40 | PG29<br>PG36 | H32B-TS-RO-PG29<br>H32B-TS-RO-PG36<br>H32B-TS-RO-M32<br>H32B-TS-RO-M40 | T1310320129-000<br>T1310320136-000<br>T1310320132-000<br>T1310320140-000 |
| Hood: Top entry | | | | | |
| |  | M25<br>M32<br>M40<br>M50 | PG21<br>PG29<br>PG36<br>PG42 | H32B-TG-RO-PG21<br>H32B-TG-RO-PG29<br>H32B-TG-RO-PG36<br>H32B-TG-RO-PG42<br>H32B-TG-RO-M25<br>H32B-TG-RO-M32<br>H32B-TG-RO-M40<br>H32B-TG-RO-M50 | T1320320121-000<br>T1320320129-000<br>T1320320136-000<br>T1320320142-000<br>T1320320125-000<br>T1320320132-000<br>T1320320140-000<br>T1320320150-000 |
| Bulkhead mounted | | | | | |
| |  | | | H32B-AG-LB | T1500322000-000 |
| | With protection cover<br>  | | | H32B-AD-LB | T1510322000-000 |
| Surface mounted: Side entry | | | | | |
| |  <br>1 Side entry<br>2 Side entry | M32<br>M40<br><br>M32<br>M40 | PG29<br><br>PG29 | H32B-SGR-LB-PG29<br>H32B-SGR-LB-M32<br>H32B-SGR-LB-M40<br>H32B-SGR-LB-2PG29<br>H32B-SGR-LB-2M32<br>H32B-SGR-LB-2M40 | T1610322129-000<br>T1610322132-000<br>T1610322140-000<br>T1610322229-000<br>T1610322232-000<br>T1610322240-000 |
| | With protection cover<br>  <br>1 Side entry<br>2 Side entry | M32<br>M40<br><br>M32<br>M40 | PG29<br><br>PG29 | H32B-SDR-LB-PG29<br>H32B-SDR-LB-M32<br>H32B-SDR-LB-M40<br>H32B-SDR-LB-2PG29<br>H32B-SDR-LB-2M32<br>H32B-SDR-LB-2M40 | T1620320129-000<br>T1620320132-000<br>T1620320140-000<br>T1620320229-000<br>T1620320232-000<br>T1620320240-000 |



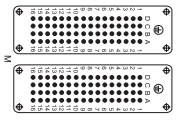
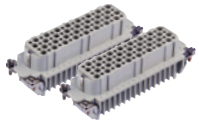
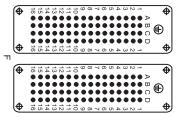
All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

## HD-128 inserts

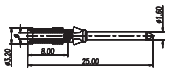
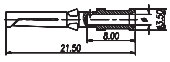
INSERTS FOR H48B HOOD/HOUSING

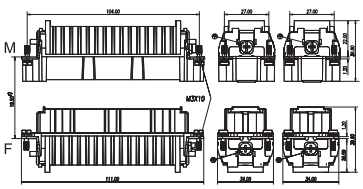
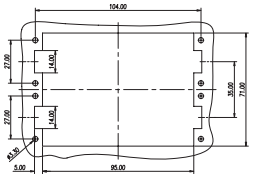
250V 10A

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)<br>HD-064-M(65-128) | T2020642101-000<br>T2021282101-000 | |
|  |  | HD-064-F(1-64)<br>HD-064-F(65-128) | | T2020642201-000<br>T2021282201-000 |

### 10A Contact

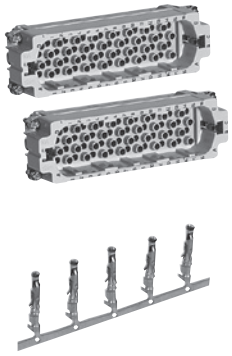
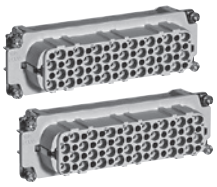
| Tech data<br>**Material:**<br>copper alloy<br>**Contact resistance:** ≤3mΩ<br>**Terminal:**<br>crimp connection | 10A Male crimp contacts | Wire gauge | | Stripping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|---|---|---|---|---|---|---|
| | | mm² | AWG | mm | Type | Part Number | Type | Part Number |
| **CDM/Male**<br> |  | 0.14-0.37 | 26-22 | 8.0 | CDM-0.14 | T2020001002-000 | DDM-0.14 | T2020011002-000 |
| | | 0.5 | 20 | 8.0 | CDM-0.5 | T2020001005-000 | DDM-0.5 | T2020011005-000 |
| | | 0.75 | 18 | 8.0 | CDM-0.75 | T2020001008-000 | DDM-0.75 | T2020011008-000 |
| | | 1.0 | 18 | 8.0 | CDM-1.0 | T2020001010-000 | DDM-1.0 | T2020011010-000 |
| | | 1.5 | 16 | 8.0 | CDM-1.5 | T2020001015-000 | DDM-1.5 | T2020011015-000 |
| | | 2.5 | 14 | 6.0 | CDM-2.5 | T2020001025-000 | DDM-2.5 | T2020011025-000 |
| **CDF/Female**<br> | 10A Female crimp contacts<br>  | 0.14-0.37 | 26-22 | 8.0 | CDF-0.14 | T2020002002-000 | DDF-0.14 | T2020012002-000 |
| | | 0.5 | 20 | 8.0 | CDF-0.5 | T2020002005-000 | DDF-0.5 | T2020012005-000 |
| | | 0.75 | 18 | 8.0 | CDF-0.75 | T2020002008-000 | DDF-0.75 | T2020012008-000 |
| | | 1.0 | 18 | 8.0 | CDF-1.0 | T2020002010-000 | DDF-1.0 | T2020012010-000 |
| | | 1.5 | 16 | 8.0 | CDF-1.5 | T2020002015-000 | DDF-1.5 | T2020012015-000 |
| | | 2.5 | 14 | 6.0 | CDF-2.5 | T2020002025-000 | DDF-2.5 | T2020012025-000 |

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

## HD.128/HEE 92 contact inserts

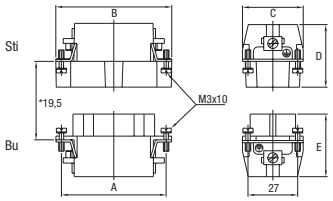
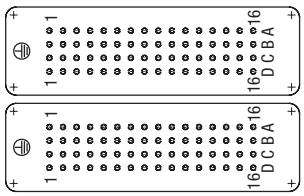
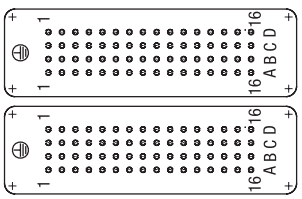
INSERTS FOR H48B HOOD/HOUSING 250V 10A

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 |
|  |  |  |





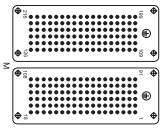
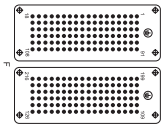
All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

## HDD-216 inserts

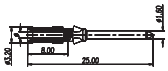
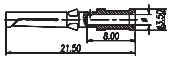
INSERTS FOR H48B HOOD/HOUSING

250V 10A

216 (2x108)+⏚ (machined contacts)

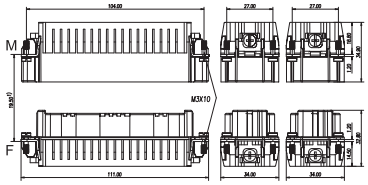
| Dimensions (mm) | | Type | Part Number | |
|---|---|---|---|---|
| | | | Male insert | Female insert |
| Crimp terminal (order crimp contacts separately) | Contact arrangement view from termination side | | | |
| |  | HDD-108-M(1-108)<br>HDD-108-M(109-216) | T2031082101-000<br>T2032162101-000 | |
| |  | HDD-108-F(1-108)<br>HDD-108-F(109-216) | | T2031082201-000<br>T2032162201-000 |

### 10A Contact

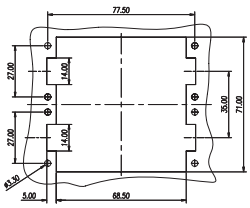
| Tech data | 10A Male crimp contacts | Wire gauge | | Strip-ping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|---|---|---|---|---|---|---|
| | | mm² | AWG | mm | Type | Part Number | Type | Part Number |
| **Material:** copper alloy<br>**Contact resistance:** ≤3mΩ<br>**Terminal:** crimp connection<br>**CDM/Male**<br> |  | 0.14-0.37 | 26-22 | 8.0 | CDM-0.14 | T2020001002-000 | DDM-0.14 | T2020011002-000 |
| | | 0.5 | 20 | 8.0 | CDM-0.5 | T2020001005-000 | DDM-0.5 | T2020011005-000 |
| | | 0.75 | 18 | 8.0 | CDM-0.75 | T2020001008-000 | DDM-0.75 | T2020011008-000 |
| | | 1.0 | 18 | 8.0 | CDM-1.0 | T2020001010-000 | DDM-1.0 | T2020011010-000 |
| | | 1.5 | 16 | 8.0 | CDM-1.5 | T2020001015-000 | DDM-1.5 | T2020011015-000 |
| | | 2.5 | 14 | 6.0 | CDM-2.5 | T2020001025-000 | DDM-2.5 | T2020011025-000 |
| **CDF/Female**<br> |  | 0.14-0.37 | 26-22 | 8.0 | CDF-0.14 | T2020002002-000 | DDF-0.14 | T2020012002-000 |
| | | 0.5 | 20 | 8.0 | CDF-0.5 | T2020002005-000 | DDF-0.5 | T2020012005-000 |
| | | 0.75 | 18 | 8.0 | CDF-0.75 | T2020002008-000 | DDF-0.75 | T2020012008-000 |
| | | 1.0 | 18 | 8.0 | CDF-1.0 | T2020002010-000 | DDF-1.0 | T2020012010-000 |
| | | 1.5 | 16 | 8.0 | CDF-1.5 | T2020002015-000 | DDF-1.5 | T2020012015-000 |
| | | 2.5 | 14 | 6.0 | CDF-2.5 | T2020002025-000 | DDF-2.5 | T2020012025-000 |

**Distance for contact max. 24mm**

Crimp terminal

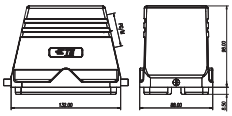
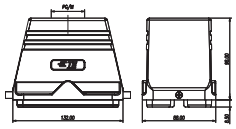
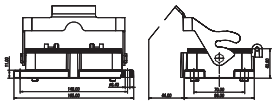
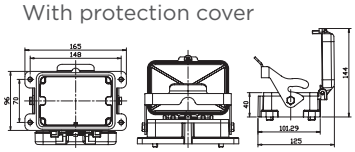
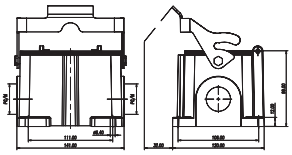
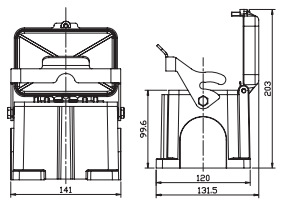



**Panel cut-out for inserts for use without hoods/housings**



## H48B hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | | Metr. | PG | Type | Part Number |
|---|---|---|---|---|---|
| Hood: Side entry | | | | | |
| |  | M32<br>M40<br>M50<br>M63 | PG29<br>PG36<br>PG42 | H48B-TS-PG29<br>H48B-TS-PG36<br>H4SB-TS-PG42<br>H48B-TS-M32<br>H48B-TS-M40<br>H48B-TS-M50<br>H48B-TS-M63 | T1310480129-000<br>T1310480136-000<br>T1310480142-000<br>T1310480132-000<br>T1310480140-000<br>T1310480150-000<br>T1310480163-000 |
| Hood: Top entry | | | | | |
| |  | M32<br>M40<br>M50<br>M63 | PG29<br>PG36<br>PG42 | H48B-TG-PG29<br>H48B-TG-PG36<br>H48B-TG-PG42<br>H48B-TG-M32<br>H48B-TG-M40<br>H48B-TG-M50<br>H48B-TG-M63 | T1320480129-000<br>T1320480136-000<br>T1320480142-000<br>T1320480132-000<br>T1320480140-000<br>T1320480150-000<br>T1320480163-000 |
| Bulkhead mounted | | | | | |
| |  | | | H48B-AG | T1500482000-000 |
| | With protection cover<br>  | | | H48B-AD-LB | T1510482000-000 |
| Surface mounted: Side entry | | | | | |
| |  | M32<br>M40<br>M50<br><br><br><br>M32<br>M40<br>M50 | PG29<br>PG36<br>PG42<br><br><br>PG29<br>PG36<br>PG42 | H48B-SGR-PG29<br>H48B-SGR-PG36<br>H48B-SGR-PG42<br>H48B-SGR-M32<br>H48B-SGR-M40<br>H48B-SGR-M50<br>H48B-SGR-2PG29<br>H48B-SGR-2PG36<br>H48B-SGR-2PG42<br>H48B-SGR-2M32<br>H48B-SGR-2M40<br>H48B-SGR-2M50 | T1610482129-000<br>T1610482136-000<br>T1610482142-000<br>T1610482132-000<br>T1610482140-000<br>T1610482150-000<br>T1610482229-000<br>T1610482236-000<br>T1610482242-000<br>T1610482232-000<br>T1610482240-000<br>T1610482250-000 |
| Surface mounted with cover | | | | | |
| |  | M32<br>M40<br>M50<br><br><br><br>M32<br>M40<br>M50 | PG29<br>PG36<br>PG42<br><br><br>PG29<br>PG36<br>PG42 | H48B-SDR-PG29<br>H48B-SDR-PG36<br>H48B-SDR-PG42<br>H48B-SDR-M32<br>H48B-SDR-M40<br>H48B-SDR-M50<br>H48B-SDR-2PG29<br>H48B-SDR-2PG36<br>H48B-SDR-2PG42<br>H48B-SDR-2M32<br>H48B-SDR-2M40<br>H48B-SDR-2M50 | T1620480129-000<br>T1620480136-000<br>T1620480142-000<br>T1620480132-000<br>T1620480140-000<br>T1620480150-000<br>T1620480229-000<br>T1620480236-000<br>T1620480242-000<br>T1620480232-000<br>T1620480240-000<br>T1620480250-000 |



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

## Crimp contacts HN.D series

### 10A Contact

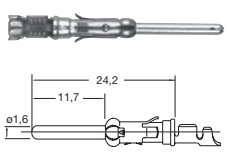
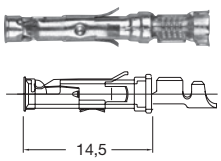
| Tech data<br>**Material:**<br>copper alloy<br>**Contact resistance:** ≤3mΩ<br>**Terminal:**<br>crimp connection<br>**CDM/Male** | 10A Male crimp contacts | Wire gauge | | Stripping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|---|---|---|---|---|---|---|
| | | mm² | AWG | mm | Type | Part Number | Type | Part Number |
| | | 0.14-0.37 | 26-22 | 8.0 | CDM-0.14 | T2020001002-000 | DDM-0.14 | T2020011002-000 |
| | | 0.5 | 20 | 8.0 | CDM-0.5 | T2020001005-000 | DDM-0.5 | T2020011005-000 |
| | | 0.75 | 18 | 8.0 | CDM-0.75 | T2020001008-000 | DDM-0.75 | T2020011008-000 |
| | | 1.0 | 18 | 8.0 | CDM-1.0 | T2020001010-000 | DDM-1.0 | T2020011010-000 |
| | | 1.5 | 16 | 8.0 | CDM-1.5 | T2020001015-000 | DDM-1.5 | T2020011015-000 |
| | | 2.5 | 14 | 6.0 | CDM-2.5 | T2020001025-000 | DDM-2.5 | T2020011025-000 |
| **CDF/Female** | **10A Female crimp contacts** | 0.14-0.37 | 26-22 | 8.0 | CDF-0.14 | T2020002002-000 | DDF-0.14 | T2020012002-000 |
| | | 0.5 | 20 | 8.0 | CDF-0.5 | T2020002005-000 | DDF-0.5 | T2020012005-000 |
| | | 0.75 | 18 | 8.0 | CDF-0.75 | T2020002008-000 | DDF-0.75 | T2020012008-000 |
| | | 1.0 | 18 | 8.0 | CDF-1.0 | T2020002010-000 | DDF-1.0 | T2020012010-000 |
| | | 1.5 | 16 | 8.0 | CDF-1.5 | T2020002015-000 | DDF-1.5 | T2020012015-000 |
| | | 2.5 | 14 | 6.0 | CDF-2.5 | T2020002025-000 | DDF-2.5 | T2020012025-000 |

## Crimping tools HN.D series

| Description | | Type | Part Number |
|---|---|---|---|
| **Crimp tool**<br>Wire range: 0.5-4.0mm²<br>Suitable for CDM/CDF and CEM/CEF contacts | | CRIMPBOX-0.5/4 | T3100000001-000 |
| **Crimp tool**<br>Wire range: 0.14-4.0mm²<br>Suitable for CDM/CDF and CEM/CEF contacts with locator and die | | RSZ.HE-HN.D-HVT | 1-1105851-8 |
| **Removal tools**<br>Used for CDM/CDF contact series | | REMOV-HD | T3100000003-000 |
| **M3 screw driver**<br>Used for HA/HE inserts | | SCREWD-M3 | T3100000009-000 |

## Crimp contacts HD.M series

### 10A Contact

| Tech data | Description | | Type | Part Number | Dimensions (mm²) |
|---|---|---|---|---|---|
| **Material:** copper alloy<br>Finish: tin plated hard gold<br>**Contact resistance:** ≤3mΩ<br>**Crimp Terminal:** 0.14-2.5 mm²<br>AWG: 26-14 | **Pin contact** | **Socket contact** | | | |
| |  |  | Pin contact tin plated | 1-1105000-3<br>2-1105000-3<br>4-1105000-3 | 0.3-0.56<br>0.5-1.5<br>1.5-2.5 |
| | | | Reel contact/pin tin plated | 0-0164161-9<br>0-0166824-2 | 0.5-1.5<br>1.5-2.5 |
| | | | Pin contact gold plated | 1-1105000-2<br>3-1105000-2 | 0.3-0.56<br>0.8-1.5 |
| | | | Reel contact/pin gold plated | 0-0164160-4<br>0-0164161-4 | 0.3-0.56<br>0.8-1.5 |
| | | | Socket contact tin plated | 1-1105001-3<br>2-1105001-3<br>4-1105001-3 | 0.3-0.56<br>0.5-1.5<br>1.5-2.5 |
| | | | Socket contact gold plated | 1-1105001-2<br>3-1105001-2 | 0.3-0.56<br>0.8-1.5 |
| | | | Reel contact/socket gold plated | 1-0163087-1<br>0-0163083-7 | 0.3-0.56<br>0.8-1.5 |

| Type | Wire cross section | Stripping length |
|---|---|---|
| 1 | 0.2-0.56 mm² | 3.5 mm |
| 2 | 0.5-1.5 mm² | 3.5 mm |
| 3 | 0.8-1.5 mm² | 3.5 mm |
| 4 | 1.5-2.5 mm² | 3.5 mm |

## Crimping tools HD.M series

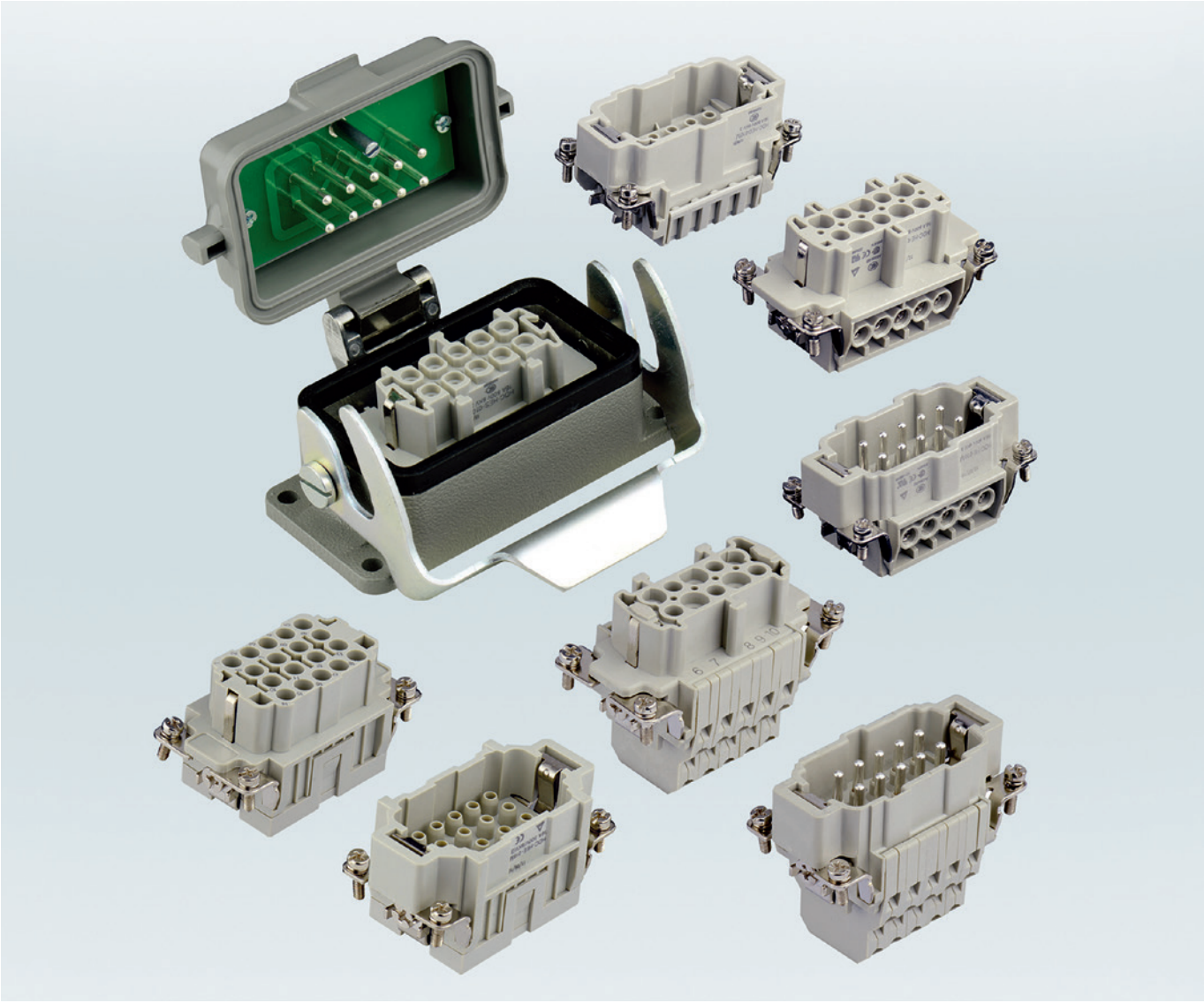
| Description | | Designation | Part Number | Cross section (mm²) |
|---|---|---|---|---|
| Crimping tool without locator and die | | RSZ.BAS | 539635-1 | |
| Locator and die | | ERGO-DIE XII | 539742-2 | 0.2-2.5mm²<br>for contacts PN |
| Extraction tool HD.M | | AWZG-HD.M-RSZ | 0-1102855-1 | all cross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



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

## 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



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

# 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

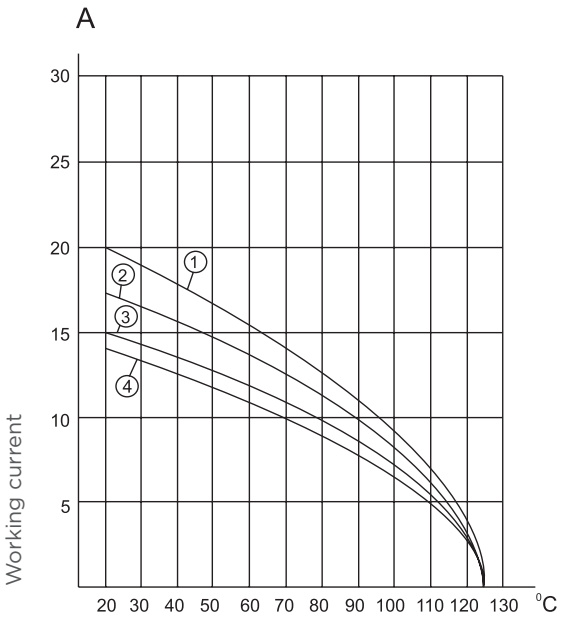
Material ..... Copper alloy
Surface ..... Hard silver-plated
..... Hard gold-plated
Contact resistance ..... ≤1mΩ
Terminal
..... Crimp terminal
..... Screw terminal
..... Spring terminal
..... Double Spring terminal
-$mm^2$
Crimp terminal ..... 0.14-4.0
Screw terminal ..... 0.5-2.5
Spring terminal ..... 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

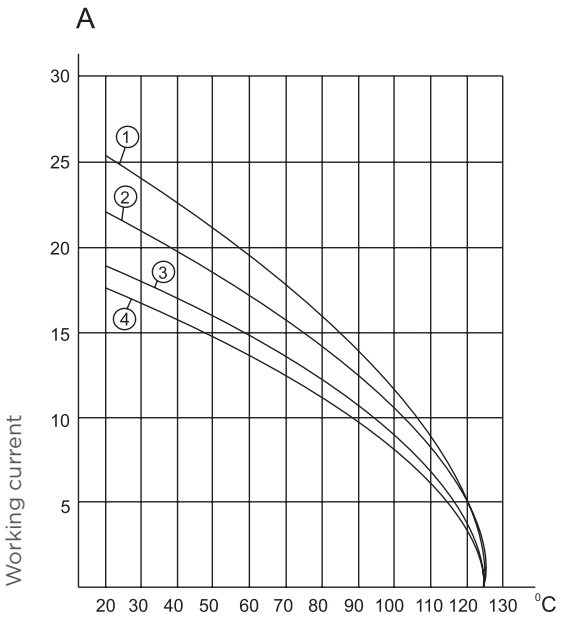
Material ..... Die cast aluminium
Surface ..... Powder-coated (RAL 7037)
Locking element ..... Stainless steel, steel-zinc plated
Temperature range ..... -40°C... +125°C
Degree of protection acc. to DIN40 050 ..... IP65

## 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.




Ambient temperature  Wire gauge: 1.5 $mm^2$




Ambient temperature  Wire gauge: 2.5 $mm^2$

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

### CONTACTS

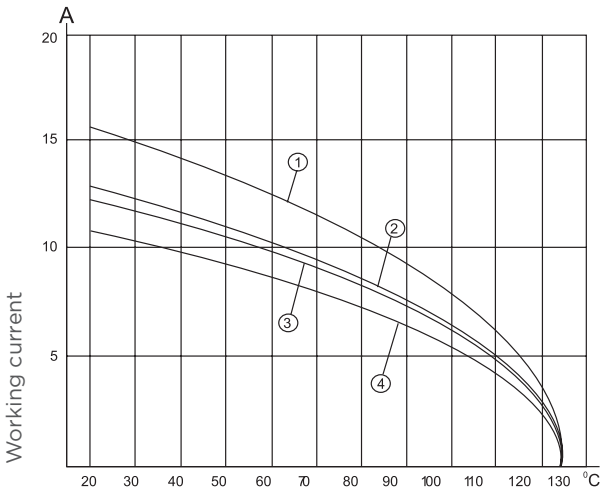
Material ..... Copper alloy
Surface ..... Hard silver-plated
..... Hard gold-plated
Contact resistance ..... ≤1mΩ
Terminal ..... Crimp terminal
- $mm^2$ ..... 0.14-4.0$mm^2$
- AWG ..... 26-12

### HOODS, HOUSINGS

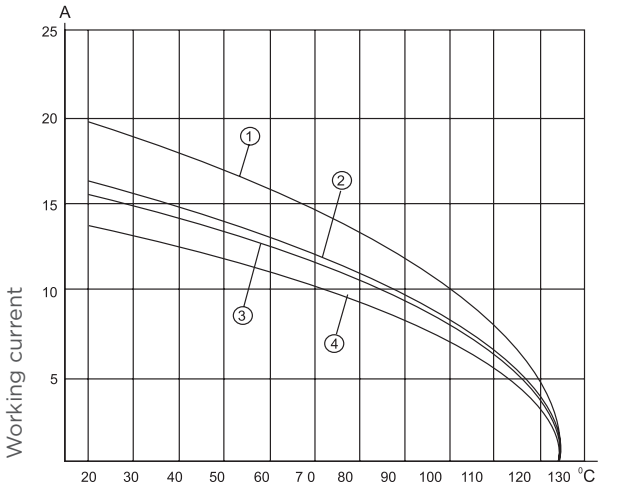
Material ..... Die cast aluminium
Surface ..... Powder-coated (RAL 7037)
Locking element ..... Stainless steel, steel-zinc plated
Temperature range ..... -40°C... +125°C
Degree of protection acc. to DIN40 050 ..... IP65

### 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.




Ambient temperature  Wire gauge: 1.5 $mm^2$




Ambient temperature  Wire gauge: 2.5 $mm^2$

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



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

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

## CONTACTS

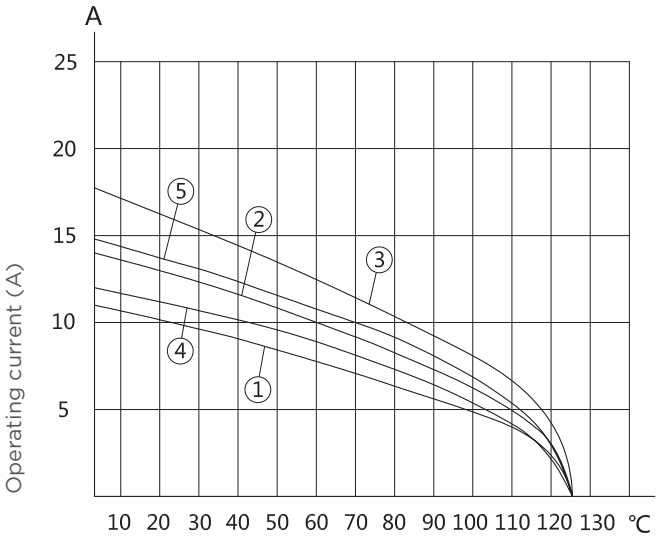
Material ..... Copper alloy
Surface ..... Hard silver-plated
..... Hard gold-plated
Contact resistance ..... ≤5mΩ
Terminal ..... Crimp terminal
- $mm^2$ ..... 0.14-4.0$mm^2$
- AWG ..... 26-12

## 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.



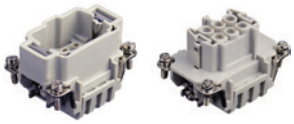
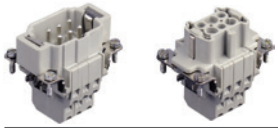

1 HEEE-064 / 1.5 $mm^2$
2 HEEE-064 / 2.5 $mm^2$
3 HEEE-064 / 4.0 $mm^2$
4 HEEE-040 / 1.5 $mm^2$
5 HEEE-040 / 2.5 $mm^2$

## 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 | T2040062101-000 | |
| | HE-006-F | | T2040062201-000 |
| Spring terminal | | | |
|  | HE-006-MS | T2040063101-000 | |
| | HE-006-FS | | T2040063201-000 |
| Crimp terminal (Order crimp contacts separately) | | | |
| | HE-006-MC | T2040064101-000 | |
| | HE-006-FC | | T2040064201-000 |
| Spring terminal (Two terminals per contact) | | | |
|  | HE-006-MSS | T2040065101-000 | |
| | HE-006-FSS | | T2040065201-000 |

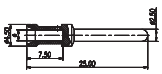
### 16A Contact

**Tech data**
**Material:** copper alloy
**Contact resistance:** ≤1mΩ
**Terminal:** crimp connection

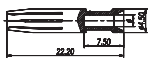
**CEM/Male**

**CEF/Female**

**16A Male crimp contacts**

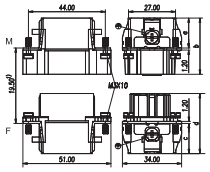


**16A Female crimp contacts**



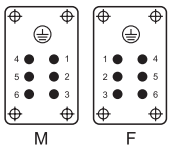
| Wire gauge | | Stripping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|---|---|---|---|---|
| mm² | AWG | mm | Type | Part Number | Type | Part Number |
| 0.14-0.37 | 26-22 | 7.5 | CEM-0.3 | T2030001002-000 | DEM-0.3 | T2030011002-000 |
| 0.5 | 20 | 7.5 | CEM-0.5 | T2030001005-000 | DEM-0.5 | T2030011005-000 |
| 0.75 | 18 | 7.5 | CEM-0.75 | T2030001008-000 | DEM-0.75 | T2030011008-000 |
| 1.0 | 18 | 7.5 | CEM-1.0 | T2030001010-000 | DEM-1.0 | T2030011010-000 |
| 1.5 | 16 | 7.5 | CEM-1.5 | T2030001015-000 | DEM-1.5 | T2030011015-000 |
| 2.5 | 14 | 7.5 | CEM-2.5 | T2030001025-000 | DEM-2.5 | T2030011025-000 |
| 4.0 | 12 | 7.5 | CEM-4.0 | T2030001040-000 | DEM-4.0 | T2030011040-000 |
| 0.14-0.37 | 26-22 | 7.5 | CEF-0.3 | T2030002002-000 | DEF-0.3 | T2030012002-000 |
| 0.5 | 20 | 7.5 | CEF-0.5 | T2030002005-000 | DEF-0.5 | T2030012005-000 |
| 0.75 | 18 | 7.5 | CEF-0.75 | T2030002008-000 | DEF-0.75 | T2030012008-000 |
| 1.0 | 18 | 7.5 | CEF-1.0 | T2030002010-000 | DEF-1.0 | T2030012010-000 |
| 1.5 | 16 | 7.5 | CEF-1.5 | T2030002015-000 | DEF-1.5 | T2030012015-000 |
| 2.5 | 14 | 7.5 | CEF-2.5 | T2030002025-000 | DEF-2.5 | T2030012025-000 |
| 4.0 | 12 | 7.5 | CEF-4.0 | T2030002040-000 | DEF-4.0 | T2030012040-000 |

**Distance for contact max. 21mm**

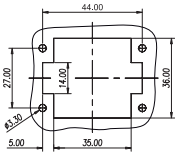


| | a | b | c | d |
|---|---|---|---|---|
| HE | 18 | 33 | 18 | 35 |
| HES/HEC | 19 | 34 | 19 | 36 |
| HESS | 34 | 49 | 32 | 49 |

**Contact arrangement view from termination side**




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





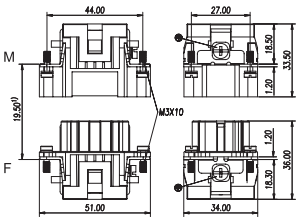
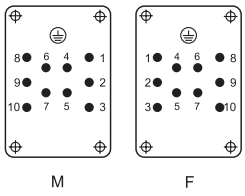
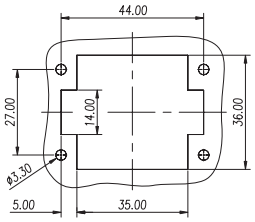
All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

## HEE-010 inserts

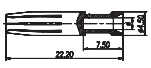
INSERTS FOR H6B HOOD/HOUSING

500V MAX. 16A

10+⏚

| Dimensions (mm) | | Type | Part Number | |
|---|---|---|---|---|
| | | | Male insert | Female insert |
| Crimp terminal (order crimp contacts separately) | | | | |
| |  | HEE-010-M | T2050102101-000 | |
| | | HEE-010-F | | T2050102201-000 |
| Contact arrangement view from termination side | Panel cut out for inserts for use without hoods/housings | | | |
|  |  | | | |

### 16A Contact

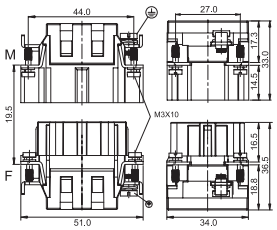
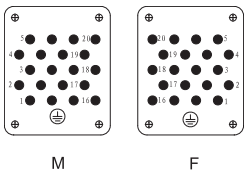
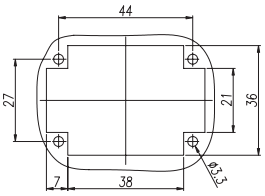
| Tech data<br>**Material:**<br>copper alloy<br>**Contact resistance:** ≤1mΩ<br>**Terminal:**<br>crimp connection | 16A Male crimp contacts | Wire gauge | | Strip-ping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|---|---|---|---|---|---|---|
| | | mm² | AWG | mm | Type | Part Number | Type | Part Number |
| **CEM/Male** | | 0.14-0.37 | 26-22 | 7.5 | CEM-0.3 | T2030001002-000 | DEM-0.3 | T2030011002-000 |
| | | 0.5 | 20 | 7.5 | CEM-0.5 | T2030001005-000 | DEM-0.5 | T2030011005-000 |
| | | 0.75 | 18 | 7.5 | CEM-0.75 | T2030001008-000 | DEM-0.75 | T2030011008-000 |
| | | 1.0 | 18 | 7.5 | CEM-1.0 | T2030001010-000 | DEM-1.0 | T2030011010-000 |
| | | 1.5 | 16 | 7.5 | CEM-1.5 | T2030001015-000 | DEM-1.5 | T2030011015-000 |
| | | 2.5 | 14 | 7.5 | CEM-2.5 | T2030001025-000 | DEM-2.5 | T2030011025-000 |
| | | 4.0 | 12 | 7.5 | CEM-4.0 | T2030001040-000 | DEM-4.0 | T2030011040-000 |
| **CEF/Female** | 16A Female crimp contacts  | 0.14-0.37 | 26-22 | 7.5 | CEF-0.3 | T2030002002-000 | DEF-0.3 | T2030012002-000 |
| | | 0.5 | 20 | 7.5 | CEF-0.5 | T2030002005-000 | DEF-0.5 | T2030012005-000 |
| | | 0.75 | 18 | 7.5 | CEF-0.75 | T2030002008-000 | DEF-0.75 | T2030012008-000 |
| | | 1.0 | 18 | 7.5 | CEF-1.0 | T2030002010-000 | DEF-1.0 | T2030012010-000 |
| | | 1.5 | 16 | 7.5 | CEF-1.5 | T2030002015-000 | DEF-1.5 | T2030012015-000 |
| | | 2.5 | 14 | 7.5 | CEF-2.5 | T2030002025-000 | DEF-2.5 | T2030012025-000 |
| | | 4.0 | 12 | 7.5 | CEF-4.0 | T2030002040-000 | DEF-4.0 | T2030012040-000 |

## HEEE-020 inserts

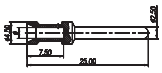
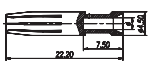
INSERTS FOR H6B HOOD/HOUSING

400V MAX. 16A

20+⏚

| Dimensions (mm) | | Type | Part Number | |
|---|---|---|---|---|
| | | | Male insert | Female insert |
| Crimp terminal (order crimp contacts separately) | | | | |
| |  | HEEE-020-M | T2050202101-000 | |
| | | HEEE-020-F | | T2050202201-000 |
| Contact arrangement view from termination side | Panel cut out for inserts for use without hoods/housings | | | |
|  |  | | | |

### 16A Contact

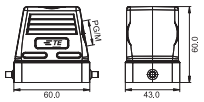
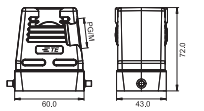
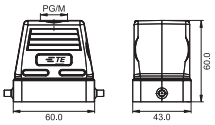
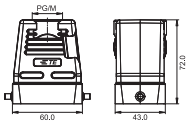
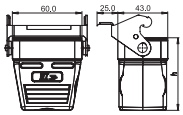
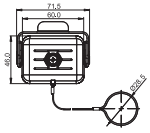
| Tech data | 16A Male crimp contacts | Wire gauge | | Strip-ping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|---|---|---|---|---|---|---|
| | | mm² | AWG | mm | Type | Part Number | Type | Part Number |
| **Material:** copper alloy **Contact resistance:** ≤1mΩ **Terminal:** crimp connection **CEM/Male** |  | 0.14-0.37 | 26-22 | 7.5 | CEM-0.3 | T2030001002-000 | DEM-0.3 | T2030011002-000 |
| | | 0.5 | 20 | 7.5 | CEM-0.5 | T2030001005-000 | DEM-0.5 | T2030011005-000 |
| | | 0.75 | 18 | 7.5 | CEM-0.75 | T2030001008-000 | DEM-0.75 | T2030011008-000 |
| | | 1.0 | 18 | 7.5 | CEM-1.0 | T2030001010-000 | DEM-1.0 | T2030011010-000 |
| | | 1.5 | 16 | 7.5 | CEM-1.5 | T2030001015-000 | DEM-1.5 | T2030011015-000 |
| | | 2.5 | 14 | 7.5 | CEM-2.5 | T2030001025-000 | DEM-2.5 | T2030011025-000 |
| | | 4.0 | 12 | 7.5 | CEM-4.0 | T2030001040-000 | DEM-4.0 | T2030011040-000 |
| **CEF/Female** | **16A Female crimp contacts**  | 0.14-0.37 | 26-22 | 7.5 | CEF-0.3 | T2030002002-000 | DEF-0.3 | T2030012002-000 |
| | | 0.5 | 20 | 7.5 | CEF-0.5 | T2030002005-000 | DEF-0.5 | T2030012005-000 |
| | | 0.75 | 18 | 7.5 | CEF-0.75 | T2030002008-000 | DEF-0.75 | T2030012008-000 |
| | | 1.0 | 18 | 7.5 | CEF-1.0 | T2030002010-000 | DEF-1.0 | T2030012010-000 |
| | | 1.5 | 16 | 7.5 | CEF-1.5 | T2030002015-000 | DEF-1.5 | T2030012015-000 |
| | | 2.5 | 14 | 7.5 | CEF-2.5 | T2030002025-000 | DEF-2.5 | T2030012025-000 |
| | | 4.0 | 12 | 7.5 | CEF-4.0 | T2030002040-000 | DEF-4.0 | T2030012040-000 |



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

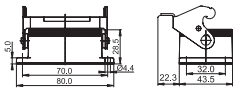
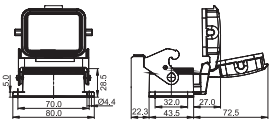
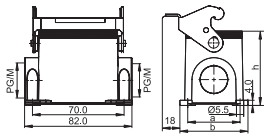
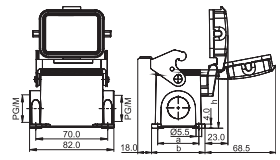
## H6B with 1 lever on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | | Metr. | PG | Type | Part Number |
|---|---|---|---|---|---|
| Hood: Side entry | | | | | |
| | Low construction  | M20<br>M25 | PG16<br>PG21 | H6B-TS-PG16<br>H6B-TS-PG21<br>H6B-TS-M20<br>H6B-TS-M25 | T1310060116-000<br>T1310060121-000<br>T1310060120-000<br>T1310060125-000 |
| | High construction  | M20<br>M25<br>M32 | PG21<br>PG29 | H6B-TSH-PG21<br>H6B-TSH-PG29<br>H6B-TSH-M20<br>H6B-TSH-M25<br>H6B-TSH-M32 | T1330060121-000<br>T1330060129-000<br>T1330060120-000<br>T1330060125-000<br>T1330060132-000 |
| Hood: Top entry | | | | | |
| | Low construction  | M20<br>M25 | PG16<br>PG21 | H6B-TG-PG16<br>H6B-TG-PG21<br>H6B-TG-M20<br>H6B-TG-M25 | T1320060116-000<br>T1320060121-000<br>T1320060120-000<br>T1320060125-000 |
| | High construction  | M20<br>M25<br>M32 | PG21<br>PG29 | H6B-TGH-PG21<br>H6B-TGH-PG29<br>H6B-TGH-M20<br>H6B-TGH-M25<br>H6B-TGH-M32 | T1340060121-000<br>T1340060129-000<br>T1340060120-000<br>T1340060125-000<br>T1340060132-000 |
| Cable-to-cable hood | | | | | |
| |  Low construction High construction<br>Construction / H<br>Low / 62.5<br>Hight / 74.5 | M20<br>M25<br><br><br>M20<br>M25<br>M32 | PG16<br><br><br>PG21<br>PG29 | H6B-TBFS-PG16<br>H6B-TBFS-M20<br>H6B-TBFS-M25<br>H6B-TBFHS-PG21<br>H6B-TBFHS-PG29<br>H6B-TBFHS-M20<br>H6B-TBFHS-M25<br>H6B-TBFHS-M32 | T1730062116-000<br>T1730062120-000<br>T1730062125-000<br>T1770062121-000<br>T1770062129-000<br>T1770062120-000<br>T1770062125-000<br>T1770062132-000 |
| Protection covers for hoods | | | | | |
| |  | | | H6B-KDTP | T1010061400-000 |

## H6B with 1 lever on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | Metr. | PG | Type | Part Number |
|---|---|---|---|---|
| Bulkhead mounted | | | | |
|  | | | H6B-AGS | T1500062000-000 |
| With protection cover  | | | H6B-ADS | T1510062100-000 |
| Surface mounted: Side entry | | | | |
|  | M20<br>M25<br><br><br>M20<br>M25<br><br><br>M25<br>M32<br><br><br>M25<br>M32 | PG16<br>PG21<br><br><br>PG16<br>PG21<br><br><br>PG21<br>PG29<br><br><br>PG21<br>PG29 | H6B-SGRS-PG16<br>H6B-SGRS-PG21<br>H6B-SGRS-M20<br>H6B-SGRS-M25<br>H6B-SGRS-2PG16<br>H6B-SGRS-2PG21<br>H6B-SGRS-2M20<br>H6B-SGRS-2M25<br>H6B-SGRHS-PG21<br>H6B-SGRHS-PG29<br>H6B-SGRHS-M25<br>H6B-SGRHS-M32<br>H6B-SGRHS-2PG21<br>H6B-SGRHS-2PG29<br>H6B-SGRHS-2M25<br>H6B-SGRHS-2M32 | T1610062116-000<br>T1610062121-000<br>T1610062120-000<br>T1610062125-000<br>T1610062216-000<br>T1610062221-000<br>T1610062220-000<br>T1610062225-000<br>T1650062121-000<br>T1650062129-000<br>T1650062125-000<br>T1650062132-000<br>T1650062221-000<br>T1650062229-000<br>T1650062225-000<br>T1650062232-000 |
| With protection cover  | M20<br>M25<br><br><br>M20<br>M25<br><br><br>M25<br>M32<br><br><br>M25<br>M32 | PG16<br>PG21<br><br><br>PG16<br>PG21<br><br><br>PG21<br>PG29<br><br><br>PG21<br>PG29 | H6B-SDRS-PG16<br>H6B-SDRS-PG21<br>H6B-SDRS-M20<br>H6B-SDRS-M25<br>H6B-SDRS-2PG16<br>H6B-SDRS-2PG21<br>H6B-SDRS-2M20<br>H6B-SDRS-2M25<br>H6B-SDRHS-PG21<br>H6B-SDRHS-PG29<br>H6B-SDRHS-M25<br>H6B-SDRHS-M32<br>H6B-SDRHS-2PG21<br>H6B-SDRHS-2PG29<br>H6B-SDRHS-2M25<br>H6B-SDRHS-2M32 | T1620062116-000<br>T1620062121-000<br>T1620062120-000<br>T1620062125-000<br>T1620062216-000<br>T1620062221-000<br>T1620062220-000<br>T1620062225-000<br>T1660062121-000<br>T1660062129-000<br>T1660062125-000<br>T1660062132-000<br>T1660062221-000<br>T1660062229-000<br>T1660062225-000<br>T1660062232-000 |

| Construction | A | B | H |
|---|---|---|---|
| Low | 40 | 52 | 56 |
| Hight | 45 | 57 | 74 |

| Construction | A | B | H |
|---|---|---|---|
| Low | 40 | 52 | 56 |
| Hight | 45 | 57 | 74 |

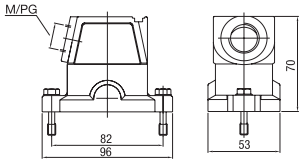
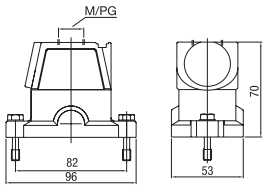
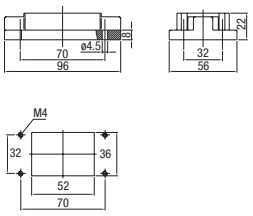
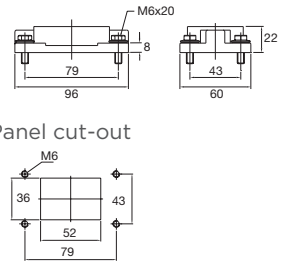


All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

## 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

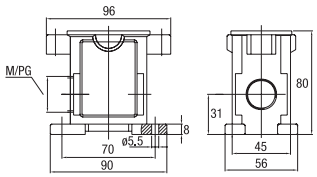
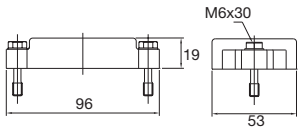
**Screw lock on hood** — **IP 68 / IP 69 K**

| Description | | Metr. | PG | Type | Part Number |
|---|---|---|---|---|---|
| **Hood:** Side entry | | | | | |
| |  | M25 | 16 | **HIP**<br>HIP.6/16.STS.1.16.G<br>HIP.6/16.STS.1.M25.G | 1-1102631-5<br>0-1106425-2 |
| | | | | **HIP-K** | |
| | | | 16 | HIP-K.6/16.STS.1.16.G | 2-1102631-5 |
| | | | 21 | HIP-K.6/16.STS.1.21.G | 2-1102633-5 |
| | | M25 | | HIP-K.6/16.STS.1.M25.G | 0-1106425-4 |
| | | | | **EMV-K** | |
| | | | 16 | EMV-K.6/16.STS.1.16.G | 4-1102704-5 |
| | | M25 | | EMV-K.6/16.STS.1.M25.G | 0-1106416-4 |
| **Hood:** Top entry | | | | | |
| |  | M32 | 16 | **HIP**<br>HIP.6/16.STO.1.16.G<br>HIP.6/16.STO.1.M32.G | 1-1102635-5<br>0-1106425-1 |
| | | | | **HIP-K** | |
| | | | 16 | HIP-K.6/16.STO.1.16.G | 2-1102635-5 |
| | | | 21 | HIP-K.6/16.STO.1.21.G | 2-1102637-5 |
| | | M25 | | HIP-K.6/16.STO.1.M25.G | 0-1106425-6 |
| | | M32 | | HIP-K.6/16.STO.1.M32.G | 0-1106425-3 |
| | | | | **EMV-K** | |
| | | | 13 | EMV-K.6/16.STO.1.13.G | 0-1108719-1 |
| | | | 16 | EMV-K.6/16.STO.1.16.G | 4-1102706-5 |
| | | | 21 | EMV-K.6/16.STO.1.21.G | 4-1102707-5 |
| | | M32 | | EMV-K.6/16.STO.1.M32.G | 0-1106416-3 |
| **Surface mounted housing:** Bottom entry | | | | | |
| |  | | | **HIP**<br>HIP.6/16.AG<br>**HIP-K**<br>HIP-K.6/16.AG<br>**EMV-K**<br>EMV-K.6/16.AG | 1-1102638-5<br>2-1102638-5<br>4-1102710-5 |
| |  | | | **HIP**<br>HIP.6/16.AG.M6<br>**HIP-K**<br>HIP-K.6/16.AG.M6<br>**EMV-K**<br>EMV-K.6/16.AG.M6 | 1-1102606-5<br>2-1102606-5<br>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 | | | | | |
| |  | | | **HIP** | |
| | | 2xM32 | 16 | HIP.6/16.SG.1.16.G | 1-1102604-5 |
| | | | 2x16 | HIP.6/16.SG.2.16.G | 1-1102605-5 |
| | | | | HIP.6/16.SG.2.M32.G | 0-1106424-1 |
| | | | | **HIP-K** | |
| | | 2xM25 | 16 | HIP-K.6/16.SG.1.16.G | 2-1102604-5 |
| | | | 2x16 | HIP-K.6/16.SG.2.16.G | 2-1102605-5 |
| | | | | HIP-K.6/16.SG.2.M25.G | 0-1102942-1 |
| | | 2xM32 | | HIP-K.6/16.SG.2.M32.G | 0-1106424-2 |
| | | | | **EMV-K** | |
| | | 2xM25 | 16 | EMV-K.6/16.SG.1.16.G | 5-1102708-5 |
| | | | 2x16 | EMV-K.6/16.SG.2.16.G | 5-1102709-5 |
| | | | | EMV-K.6/16.SG.2.M25.G | 0-1106413-3 |
| | | 2xM32 | | EMV-K.6/16.SG.2.M32.G | 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 |



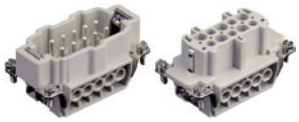
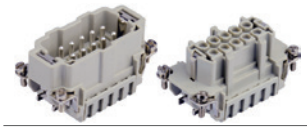
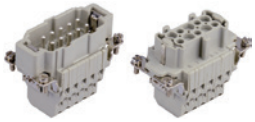
All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

## HE-010 inserts

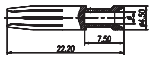
INSERTS FOR H10B HOOD/HOUSING

500V MAX. 16A

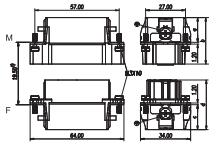
10+⏚

| Dimension (mm) | Type | Part Number | |
|---|---|---|---|
| | | Male insert | Female insert |
| Screw terminal | | | |
|  | HE-010-M | T2040102101-000 | |
| | HE-010-F | | T2040102201-000 |
| Spring terminal | | | |
|  | HE-010-MS | T2040103101-000 | |
| | HE-010-FS | | T2040103201-000 |
| Crimp terminal (Order crimp contacts separately) | | | |
| | HE-010-MC | T2040104101-000 | |
| | HE-010-FC | | T2040104201-000 |
| Spring terminal (Two terminals per contact) | | | |
|  | HE-010-MSS | T2040105101-000 | |
| | HE-010-FSS | | T2040105201-000 |

### 16A Contact

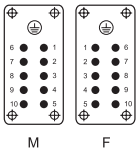
| Tech data<br>**Material:**<br>copper alloy<br>**Contact resistance:** ≤1mΩ<br>**Terminal:**<br>crimp connection | 16A Male crimp contacts | Wire gauge | | Stripping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|---|---|---|---|---|---|---|
| | | mm² | AWG | mm | Type | Part Number | Type | Part Number |
| **CEM/Male** | | 0.14-0.37 | 26-22 | 7.5 | CEM-0.3 | T2030001002-000 | DEM-0.3 | T2030011002-000 |
| | | 0.5 | 20 | 7.5 | CEM-0.5 | T2030001005-000 | DEM-0.5 | T2030011005-000 |
| | | 0.75 | 18 | 7.5 | CEM-0.75 | T2030001008-000 | DEM-0.75 | T2030011008-000 |
| | | 1.0 | 18 | 7.5 | CEM-1.0 | T2030001010-000 | DEM-1.0 | T2030011010-000 |
| | | 1.5 | 16 | 7.5 | CEM-1.5 | T2030001015-000 | DEM-1.5 | T2030011015-000 |
| | | 2.5 | 14 | 7.5 | CEM-2.5 | T2030001025-000 | DEM-2.5 | T2030011025-000 |
| | | 4.0 | 12 | 7.5 | CEM-4.0 | T2030001040-000 | DEM-4.0 | T2030011040-000 |
| **CEF/Female** | 16A Female crimp contacts  | 0.14-0.37 | 26-22 | 7.5 | CEF-0.3 | T2030002002-000 | DEF-0.3 | T2030012002-000 |
| | | 0.5 | 20 | 7.5 | CEF-0.5 | T2030002005-000 | DEF-0.5 | T2030012005-000 |
| | | 0.75 | 18 | 7.5 | CEF-0.75 | T2030002008-000 | DEF-0.75 | T2030012008-000 |
| | | 1.0 | 18 | 7.5 | CEF-1.0 | T2030002010-000 | DEF-1.0 | T2030012010-000 |
| | | 1.5 | 16 | 7.5 | CEF-1.5 | T2030002015-000 | DEF-1.5 | T2030012015-000 |
| | | 2.5 | 14 | 7.5 | CEF-2.5 | T2030002025-000 | DEF-2.5 | T2030012025-000 |
| | | 4.0 | 12 | 7.5 | CEF-4.0 | T2030002040-000 | DEF-4.0 | T2030012040-000 |

**Distance for contact max. 21mm**

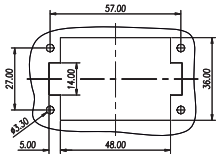


| | a | b | c | d |
|---|---|---|---|---|
| HE | 18 | 33 | 18 | 35 |
| HES/HEC | 19 | 34 | 19 | 36 |
| HESS | 34 | 49 | 32 | 49 |

**Contact arrangement view from termination side**




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

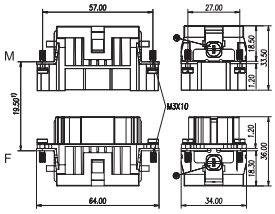
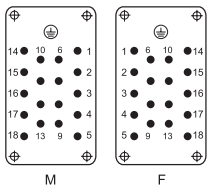
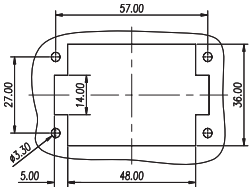


## HEE-018 inserts

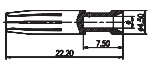
INSERTS FOR H10B HOOD/HOUSING

500V MAX. 16A

18+ ⏚

| Dimensions (mm) | | Type | Part Number | |
|---|---|---|---|---|
| | | | Male insert | Female insert |
| Crimp terminal (order crimp contacts separately) | | | | |
| |  | HEE-018-M | T2050182101-000 | |
| | | HEE-018-F | | T2050182201-000 |
| Contact arrangement view from termination side | Panel cut out for inserts for use without hoods/housings | | | |
|  |  | | | |

### 16A Contact

| Tech data<br>**Material:**<br>copper alloy<br>**Contact resistance:** ≤1mΩ<br>**Terminal:**<br>crimp connection | 16A Male crimp contacts | Wire gauge | | Strip-ping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|---|---|---|---|---|---|---|
| | | mm² | AWG | mm | Type | Part Number | Type | Part Number |
| **CEM/Male** | | 0.14-0.37 | 26-22 | 7.5 | CEM-0.3 | T2030001002-000 | DEM-0.3 | T2030011002-000 |
| | | 0.5 | 20 | 7.5 | CEM-0.5 | T2030001005-000 | DEM-0.5 | T2030011005-000 |
| | | 0.75 | 18 | 7.5 | CEM-0.75 | T2030001008-000 | DEM-0.75 | T2030011008-000 |
| | | 1.0 | 18 | 7.5 | CEM-1.0 | T2030001010-000 | DEM-1.0 | T2030011010-000 |
| | | 1.5 | 16 | 7.5 | CEM-1.5 | T2030001015-000 | DEM-1.5 | T2030011015-000 |
| | | 2.5 | 14 | 7.5 | CEM-2.5 | T2030001025-000 | DEM-2.5 | T2030011025-000 |
| | | 4.0 | 12 | 7.5 | CEM-4.0 | T2030001040-000 | DEM-4.0 | T2030011040-000 |
| **CEF/Female** | 16A Female crimp contacts  | 0.14-0.37 | 26-22 | 7.5 | CEF-0.3 | T2030002002-000 | DEF-0.3 | T2030012002-000 |
| | | 0.5 | 20 | 7.5 | CEF-0.5 | T2030002005-000 | DEF-0.5 | T2030012005-000 |
| | | 0.75 | 18 | 7.5 | CEF-0.75 | T2030002008-000 | DEF-0.75 | T2030012008-000 |
| | | 1.0 | 18 | 7.5 | CEF-1.0 | T2030002010-000 | DEF-1.0 | T2030012010-000 |
| | | 1.5 | 16 | 7.5 | CEF-1.5 | T2030002015-000 | DEF-1.5 | T2030012015-000 |
| | | 2.5 | 14 | 7.5 | CEF-2.5 | T2030002025-000 | DEF-2.5 | T2030012025-000 |
| | | 4.0 | 12 | 7.5 | CEF-4.0 | T2030002040-000 | DEF-4.0 | T2030012040-000 |



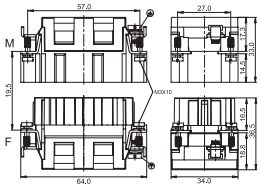
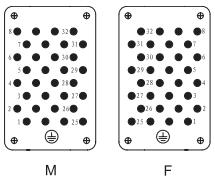
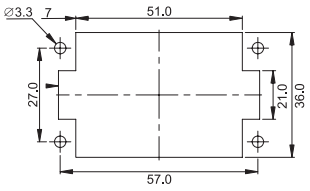
All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

## HEEE-032 inserts

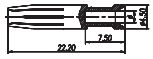
INSERTS FOR H10B HOOD/HOUSING

400V MAX. 16A

32+⏚

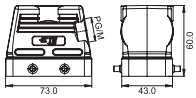
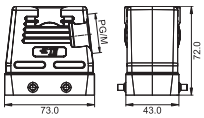
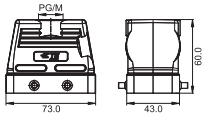
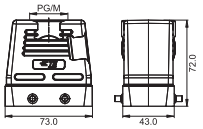
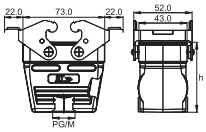
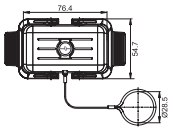
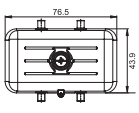
| Dimensions (mm) | | Type | Part Number | |
|---|---|---|---|---|
| | | | Male insert | Female insert |
| Crimp terminal (order crimp contacts separately) | | | | |
| |  | HEEE-032-M | T2050323101-000 | |
| | | HEEE-032-F | | T2050323201-000 |
| Contact arrangement view from termination side | Panel cut out for inserts for use without hoods/housings | | | |
|  |  | | | |

### 16A Contact

| Tech data<br>**Material:**<br>copper alloy<br>**Contact resistance:** ≤1mΩ<br>**Terminal:**<br>crimp connection | 16A Male crimp contacts | Wire gauge | | Strip-ping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|---|---|---|---|---|---|---|
| | | mm² | AWG | mm | Type | Part Number | Type | Part Number |
| **CEM/Male** | | 0.14-0.37 | 26-22 | 7.5 | CEM-0.3 | T2030001002-000 | DEM-0.3 | T2030011002-000 |
| | | 0.5 | 20 | 7.5 | CEM-0.5 | T2030001005-000 | DEM-0.5 | T2030011005-000 |
| | | 0.75 | 18 | 7.5 | CEM-0.75 | T2030001008-000 | DEM-0.75 | T2030011008-000 |
| | | 1.0 | 18 | 7.5 | CEM-1.0 | T2030001010-000 | DEM-1.0 | T2030011010-000 |
| | | 1.5 | 16 | 7.5 | CEM-1.5 | T2030001015-000 | DEM-1.5 | T2030011015-000 |
| | | 2.5 | 14 | 7.5 | CEM-2.5 | T2030001025-000 | DEM-2.5 | T2030011025-000 |
| | | 4.0 | 12 | 7.5 | CEM-4.0 | T2030001040-000 | DEM-4.0 | T2030011040-000 |
| **CEF/Female** | 16A Female crimp contacts  | 0.14-0.37 | 26-22 | 7.5 | CEF-0.3 | T2030002002-000 | DEF-0.3 | T2030012002-000 |
| | | 0.5 | 20 | 7.5 | CEF-0.5 | T2030002005-000 | DEF-0.5 | T2030012005-000 |
| | | 0.75 | 18 | 7.5 | CEF-0.75 | T2030002008-000 | DEF-0.75 | T2030012008-000 |
| | | 1.0 | 18 | 7.5 | CEF-1.0 | T2030002010-000 | DEF-1.0 | T2030012010-000 |
| | | 1.5 | 16 | 7.5 | CEF-1.5 | T2030002015-000 | DEF-1.5 | T2030012015-000 |
| | | 2.5 | 14 | 7.5 | CEF-2.5 | T2030002025-000 | DEF-2.5 | T2030012025-000 |
| | | 4.0 | 12 | 7.5 | CEF-4.0 | T2030002040-000 | DEF-4.0 | T2030012040-000 |

## H10B with 2 levers on the hoods/housings

POWDER-COATED, RAL 7037

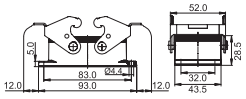
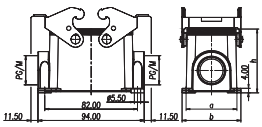
| Dimensions (mm) | | Metr. | PG | Type | Part Number |
|---|---|---|---|---|---|
| Hood: Side entry | | | | | |
| | Low construction   | M20<br>M25 | PG16<br>PG21 | H10B-TS-PG16<br>H10B-TS-PG21<br>H10B-TS-M20<br>H10B-TS-M25 | T1210100116-000<br>T1210100121-000<br>T1210100120-000<br>T1210100125-000 |
| | High construction   | M20<br>M25<br>M32 | PG21<br>PG29 | H10B-TSH-PG21<br>H10B-TSH-PG29<br>H10B-TSH-M20<br>H10B-TSH-M25<br>H10B-TSH-M32 | T1230100121-000<br>T1230100129-000<br>T1230100120-000<br>T1230100125-000<br>T1230100132-000 |
| Hood: Top entry | | | | | |
| | Low construction   | M20<br>M25 | PG16<br>PG21 | H10B-TG-PG16<br>H10B-TG-PG21<br>H10B-TG-M20<br>H10B-TG-M25 | T1220100116-000<br>T1220100121-000<br>T1220100120-000<br>T1220100125-000 |
| | High construction   | M20<br>M25<br>M32 | PG21<br>PG29 | H10B-TGH-PG21<br>H10B-TGH-PG29<br>H10B-TGH-M20<br>H10B-TGH-M25<br>H10B-TGH-M32 | T1240100121-000<br>T1240100129-000<br>T1240100120-000<br>T1240100125-000<br>T1240100132-000 |
| Cable-to-cable hood | | | | | |
| |   <table><tr><th>Construction</th><th>H</th></tr><tr><td>Low</td><td>62.5</td></tr><tr><td>Hight</td><td>74.5</td></tr></table> | M20<br>M25<br><br>M25<br>M32 | PG16<br><br>PG21<br>PG29 | H10B-TBFS-PG16<br>H10B-TBFS-M20<br>H10B-TBFS-M25<br>H10B-TBFHS-PG21<br>H10B-TBFHS-PG29<br>H10B-TBFHS-M25<br>H10B-TBFHS-M32 | T1710101116-000<br>T1710101120-000<br>T1710101125-000<br>T1750101121-000<br>T1750101129-000<br>T1750101125-000<br>T1750101132-000 |
| Protection covers for hoods | | | | | |
| |   | | | H10B-KDTP | T1010101400-000 |
| Housing protection cover | | | | | |
| |   | | | H10B-KDBP | T1010102100-000 |



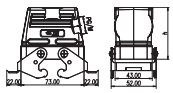
All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

## H10B with 2 levers on the hoods/housings

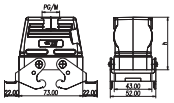
### POWDER-COATED, RAL 7037

| Dimensions (mm) | Metr. | PG | Type | Part Number |
|---|---|---|---|---|
| **Bulkhead mounted** | | | | |
|  | | | H10B-AGS | T1410101000-000 |
| **Surface mounted: Side entry** | | | | |
|  1 Side entry, Low construction; 2 Side entry, 1 Side entry, High construction; 2 Side entry | M20<br>M25<br><br><br>M20<br>M25<br><br><br>M25<br>M32<br><br><br>M25<br>M32 | PG16<br>PG21<br>PG16<br>PG21<br>PG21<br>PG29<br>PG21<br>PG29 | H10B-SGRS-PG16<br>H10B-SGRS-PG21<br>H10B-SGRS-M20<br>H10B-SGRS-M25<br>H10B-SGRS-2PG16<br>H10B-SGRS-2PG21<br>H10B-SGRS-2M20<br>H10B-SGRS-2M25<br>H10B-SGRHS-PG21<br>H10B-SGRHS-PG29<br>H10B-SGRHS-M25<br>H10B-SGRHS-M32<br>H10B-SGRHS-2PG21<br>H10B-SGRHS-2PG29<br>H10B-SGRHS-2M25<br>H10B-SGRHS-2M32 | T1440101116-000<br>T1440101121-000<br>T1440101120-000<br>T1440101125-000<br>T1440101216-000<br>T1440101221-000<br>T1440101220-000<br>T1440101225-000<br>T1470101121-000<br>T1470101129-000<br>T1470101125-000<br>T1470101132-000<br>T1470101221-000<br>T1470101229-000<br>T1470101225-000<br>T1470101232-000 |

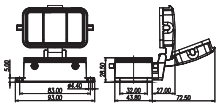
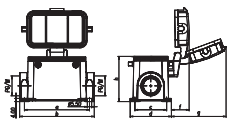
| Construction | A | B | H |
|---|---|---|---|
| Low | 40 | 52 | 56 |
| Hight | 45 | 57 | 74 |

| Side entry housing with two levers | | | | |
|---|---|---|---|---|
|  Low construction; High construction | M20<br>M25<br><br><br>M25<br>M32 | PG16<br>PG21<br><br><br>PG21<br>PG29 | H10B-TSBS-PG16<br>H10B-TSBS-PG21<br>H10B-TSBS-M20<br>H10B-TSBS-M25<br>H10B-TSBHS-PG21<br>H10B-TSBHS-PG29<br>H10B-TSBHS-M25<br>H10B-TSBHS-M32 | T1250103116-000<br>T1250103121-000<br>T1250103120-000<br>T1250103125-000<br>T1270103121-000<br>T1270103129-000<br>T1270103125-000<br>T1270103132-000 |

| Construction | H |
|---|---|
| Low | 60 |
| Hight | 72 |

| Top entry housing with two levers | | | | |
|---|---|---|---|---|
|  Low construction; High construction | M20<br>M25<br><br><br>M25<br>M32 | PG16<br>PG21<br><br><br>PG21<br>PG29 | H10B-TGBS-PG16<br>H10B-TGBS-PG21<br>H10B-TGBS-M20<br>H10B-TGBS-M25<br>H10B-TGBHS-PG21<br>H10B-TGBHS-PG29<br>H10B-TGBHS-M25<br>H10B-TGBHS-M32 | T1260103116-000<br>T1260103121-000<br>T1260103120-000<br>T1260103125-000<br>T1280103121-000<br>T1280103129-000<br>T1280103125-000<br>T1280103132-000 |

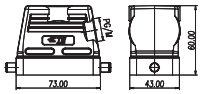
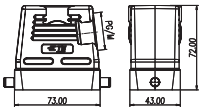
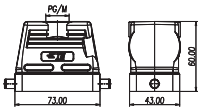
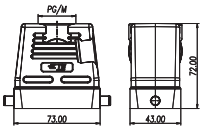
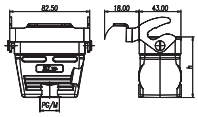
| Construction | H |
|---|---|
| Low | 60 |
| Hight | 72 |

| Bulkhead mounted with 4 bolts | | | | |
|---|---|---|---|---|
| With protection cover<br>  1 Side entry, Low construction; 2 Side entry<br>  1 Side entry, High construction; 2 Side entry | | | H10B-AD-BO | T1430100000-000 |
| | M20<br>M25<br><br><br>M20<br>M25<br><br><br>M25<br>M32<br><br><br>M25<br>M32 | PG16<br>PG21<br>PG16<br>PG21<br>PG21<br>PG29<br>PG21<br>PG29 | H10B-SDR-BO-PG16<br>H10B-SDR-BO-PG21<br>H10B-SDR-BO-M20<br>H10B-SDR-BO-M25<br>H10B-SDR-BO-2PG16<br>H10B-SDR-BO-2PG21<br>H10B-SDR-BO-2M20<br>H10B-SDR-BO-2M25<br>H10B-SDRH-BO-PG21<br>H10B-SDRH-BO-PG29<br>H10B-SDRH-BO-M25<br>H10B-SDRH-BO-M32<br>H10B-SDRH-BO-2PG21<br>H10B-SDRH-BO-2PG29<br>H10B-SDRH-BO-2M25<br>H10B-SDRH-BO-2M32 | T1460100116-000<br>T1460100121-000<br>T1460100120-000<br>T1460100125-000<br>T1460100216-000<br>T1460100221-000<br>T1460100220-000<br>T1460100225-000<br>T1490100121-000<br>T1490100129-000<br>T1490100125-000<br>T1490100132-000<br>T1490100221-000<br>T1490100229-000<br>T1490100225-000<br>T1490100232-000 |

| 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

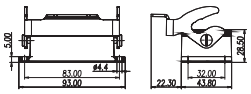
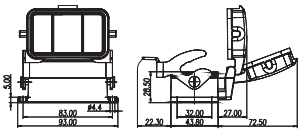
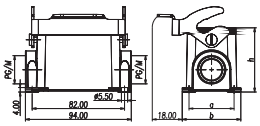
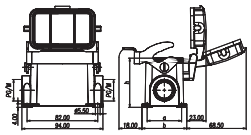
| Dimensions (mm) | | Metr. | PG | Type | Part Number |
|---|---|---|---|---|---|
| Hood: Side entry | | | | | |
| | Low construction  | M20<br>M25 | PG16<br>PG21 | H10B-TS-RO-PG16<br>H10B-TS-RO-PG21<br>H10B-TS-RO-M20<br>H10B-TS-RO-M25 | T1310100116-000<br>T1310100121-000<br>T1310100120-000<br>T1310100125-000 |
| | High construction  | M20<br>M25<br>M32 | PG21<br>PG29 | H10B-TSH-RO-PG21<br>H10B-TSH-RO-PG29<br>H10B-TSH-RO-M20<br>H10B-TSH-RO-M25<br>H10B-TSH-RO-M32 | T1330100121-000<br>T1330100129-000<br>T1330100120-000<br>T1330100125-000<br>T1330100132-000 |
| Hood: Top entry | | | | | |
| | Low construction  | M20<br>M25 | PG16<br>PG21 | H10B-TG-RO-PG16<br>H10B-TG-RO-PG21<br>H10B-TG-RO-M20<br>H10B-TG-RO-M25 | T1320100116-000<br>T1320100121-000<br>T1320100120-000<br>T1320100125-000 |
| | High construction  | M20<br>M25<br>M32 | PG21<br>PG29 | H10B-TGH-RO-PG21<br>H10B-TGH-RO-PG29<br>H10B-TGH-RO-M20<br>H10B-TGH-RO-M25<br>H10B-TGH-RO-M32 | T1340100121-000<br>T1340100129-000<br>T1340100120-000<br>T1340100125-000<br>T1340100132-000 |
| Cable-to-cable hood | | | | | |
| |  Low construction High construction<br>Construction / H<br>Low / 62.5<br>Hight / 74.5 | M20<br>M25<br><br>M25<br>M32 | PG16<br><br>PG21<br>PG29 | H10B-TBF-LB-PG16<br>H10B-TBF-LB-M20<br>H10B-TBF-LB-M25<br>H10B-TBFH-LB-PG21<br>H10B-TBFH-LB-PG29<br>H10B-TBFH-LB-M25<br>H10B-TBFH-LB-M32 | T1730103116-000<br>T1730103120-000<br>T1730103125-000<br>T1770103121-000<br>T1770103129-000<br>T1770103125-000<br>T1770103132-000 |
| Protection covers for hoods | | | | | |
| | | | | H10B-KDTP-LB | T1010101500-000 |



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

## H10B with 1 lever on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | Metr. | PG | Type | Part Number |
|---|---|---|---|---|
| Bulkhead mounted | | | | |
|  | | | H10B-AG-LB | T1500103000-000 |
| With protection cover  | | | H10B-AD-LB<br>H10B-ADM-LB | T1510103000-000<br>T1510103001-000 |
| Surface mounted: Side entry | | | | |
|  1 Side entry Low construction 2 Side entry 1 Side entry High construction 2 Side entry | M20<br>M25<br><br><br>M20<br>M25<br><br><br>M25<br>M32<br><br><br>M25<br>M32 | PG16<br>PG21<br><br><br>PG16<br>PG21<br><br><br>PG21<br>PG29<br><br><br>PG21<br>PG29<br><br><br>M25<br>M32 | H10B-SGR-LB-PG16<br>H10B-SGR-LB-PG21<br>H10B-SGR-LB-M20<br>H10B-SGR-LB-M25<br>H10B-SGR-LB-2PG16<br>H10B-SGR-LB-2PG21<br>H10B-SGR-LB-2M20<br>H10B-SGR-LB-2M25<br>H10B-SGRH-LB-PG21<br>H10B-SGRH-LB-PG29<br>H10B-SGRH-LB-M25<br>H10B-SGRH-LB-M32<br>H10B-SGRH-LB-2PG21<br>H10B-SGRH-LB-2PG29<br>H10B-SGRH-LB-2M25<br>H10B-SGRH-LB-2M32 | T1610103116-000<br>T1610103121-000<br>T1610103120-000<br>T1610103125-000<br>T1610103216-000<br>T1610103221-000<br>T1610103220-000<br>T1610103225-000<br>T1650103121-000<br>T1650103129-000<br>T1650103125-000<br>T1650103132-000<br>T1650103221-000<br>T1650103229-000<br>T1650103225-000<br>T1650103232-000 |
| With protection cover  1 Side entry Low construction 2 Side entry 1 Side entry High construction 2 Side entry | M20<br>M25<br><br><br>M20<br>M25<br><br><br>M25<br>M32<br><br><br>M25<br>M32 | PG16<br>PG21<br><br><br>PG16<br>PG21<br><br><br>PG21<br>PG29<br><br><br>PG21<br>PG29<br><br><br>M25<br>M32 | H10B-SDR-LB-PG16<br>H10B-SDR-LB-PG21<br>H10B-SDR-LB-M20<br>H10B-SDR-LB-M25<br>H10B-SDR-LB-2PG16<br>H10B-SDR-LB-2PG21<br>H10B-SDR-LB-2M20<br>H10B-SDR-LB-2M25<br>H10B-SDRH-LB-PG21<br>H10B-SDRH-LB-PG29<br>H10B-SDRH-LB-M25<br>H10B-SDRH-LB-M32<br>H10B-SDRH-LB-2PG21<br>H10B-SDRH-LB-2PG29<br>H10B-SDRH-LB-2M25<br>H10B-SDRH-LB-2M32 | T1620103116-000<br>T1620103121-000<br>T1620103120-000<br>T1620103125-000<br>T1620103216-000<br>T1620103221-000<br>T1620103220-000<br>T1620103225-000<br>T1660103121-000<br>T1660103129-000<br>T1660103125-000<br>T1660103132-000<br>T1660103221-000<br>T1660103229-000<br>T1660103225-000<br>T1660103232-000 |

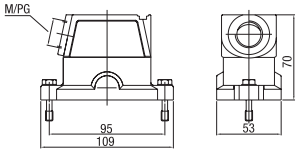
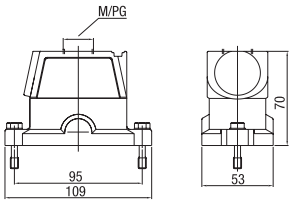
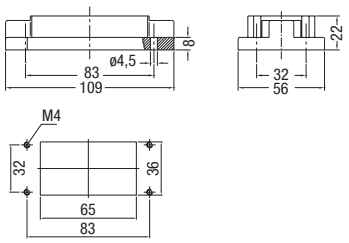
| Construction | A | B | H |
|---|---|---|---|
| Low | 40 | 52 | 54 |
| Hight | 45 | 57 | 74 |

| 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 | | | | | |
| |  | | | **HIP** | |
| | | | 16 | HIP.10/24.STS.1.16.G | 1-1102640-5 |
| | | | 21 | HIP.10/24.STS.1.21.G | 1-1102642-5 |
| | | M25 | | HIP.10/24.STS.1.M25.G | 0-1106436-2 |
| | | | | **HIP-K** | |
| | | | 21 | HIP-K.10/24.STS.1.21.G | 2-1102642-5 |
| | | M25 | | HIP-K.10/24.STS.1.M25.G | 0-1106436-4 |
| | | M32 | | HIP-K.10/24.STS.1.M32.G | 0-1106436-6 |
| | | | | **EMV-K** | |
| | | | 21 | EMV-K.10/24.STS.1.21.G | 4-1102714-5 |
| | | M25 | | EMV-K.10/24.STS.1.M25.G | 0-1106427-3 |
| | | M32 | | EMV-K.10/24.STS.1.M32.G | 1-1106427-0 |
| **Hood:** Top entry | | | | | |
| |  | | | **HIP** | |
| | | | 16 | HIP.10/24.STO.1.16.G | 1-1102644-5 |
| | | | 21 | HIP.10/24.STO.1.21.G | 1-1102646-5 |
| | | M25 | | HIP.10/24.STO.1.M25.G | 0-1106436-1 |
| | | | | **HIP-K** | |
| | | | 16 | HIP-K.10/24.STO.1.16.G | 2-1102644-5 |
| | | M25 | | HIP-K.10/24.STO.1.M25.G | 0-1106436-3 |
| | | M32 | | HIP-K.10/24.STO.1.M32.G | 0-1106436-5 |
| | | | | **EMV-K** | |
| | | | 21 | EMV-K.10/24.STO.1.21.G | 4-1102715-5 |
| | | M25 | | EMV-K.10/24.STO.1.M25.G | 0-1106427-4 |
| **Surface mounted housing:** Bottom entry | | | | | |
| |  | | | **HIP**<br>HIP.10/24.AG | 1-1102647-5 |
| | | | | **HIP-K**<br>HIP-K.10/24.AG | 2-1102647-5 |
| | | | | **EMV-K**<br>EMV-K.10/24.AG | 4-1102718-5 |

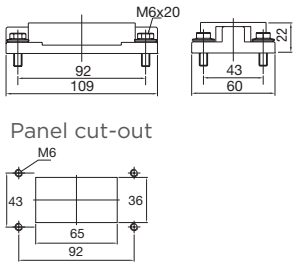
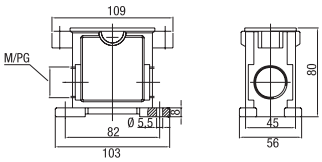
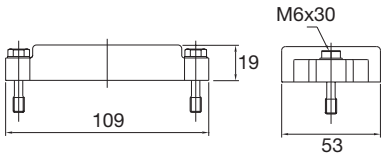


All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

## 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**

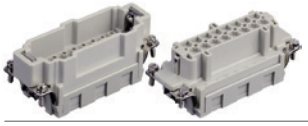
| Description | | Metr. | PG | Type | Part Number |
|---|---|---|---|---|---|
| **Surface mounted housing:** Bottom entry | | | | | |
| |  | | | **HIP**<br>HIP.10/24.AG.M6<br><br>**HIP-K**<br>HIP-K.10/24.AG.M6<br><br>**EMV-K**<br>EMV-K.10/24.AG.M6 | <br>1-1102612-5<br><br><br>2-1102612-5<br><br><br>4-1102720-5 |
| **Surface mounted housing:** Side entry | | | | | |
| |  | 2xM32<br><br><br><br><br><br><br><br>2xM32 | 21<br>2x21<br><br><br><br>21<br>2x21<br><br>21<br>2x21 | **HIP**<br>HIP.10/24.SG.1.21.G<br>HIP.10/24.SG.2.21.G<br>HIP.10/24.SG.2.M32.G<br><br>**HIP-K**<br>HIP-K.10/24.SG.1.21.G<br>HIP-K.10/24.SG.2.21.G<br><br>**EMV-K**<br>EMV-K.10/24.SG.1.21.G<br>EMV-K.10/24.SG.2.21.G<br>EMV-K.10/24.SG.2.M32.G | <br>1-1102610-5<br>1-1102611-5<br>0-1106435-1<br><br><br>5-1102610-5<br>2-1102611-5<br><br><br>5-1102716-5<br>4-1102717-5<br>0-1106426-2 |
| **Protective covers for hoods and housing** | | | | | |
| |  | | | **HIP**<br>HIP/EMV.10/24.SKB<br><br>**HIP-K/EMV-K**<br>HIP-K/EMV-K.10/24.SKB | <br>3-1106202-5<br><br><br>4-1106202-5 |

# HE-016 inserts

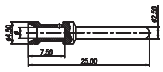
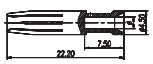
INSERTS FOR H16B HOOD/HOUSING

500V MAX. 16A

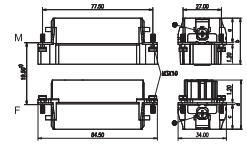
16+ ⏚

| Dimension (mm) | Type | Part Number | |
|---|---|---|---|
| | | Male insert | Female insert |
| Screw terminal | | | |
| | HE-016-M | T2040162101-000 | |
| | HE-016-F | | T2040162201-000 |
| Spring terminal | | | |
| | HE-016-MS | T2040163101-000 | |
| | HE-016-FS | | T2040163201-000 |
| Crimp terminal (Order crimp contacts separately) | | | |
|  | HE-016-MC | T2040164101-000 | |
| | HE-016-FC | | T2040164201-000 |
| Spring terminal (Two terminals per contact) | | | |
| | HE-016-MSS | T2040165101-000 | |
| | HE-016-FSS | | T2040165201-000 |

## 16A Contact

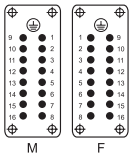
| Tech data | 16A Male crimp contacts | Wire gauge | | Stripping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|---|---|---|---|---|---|---|
| | | mm² | AWG | mm | Type | Part Number | Type | Part Number |
| **Material:** copper alloy<br>**Contact resistance:** ≤1mΩ<br>**Terminal:** crimp connection<br>**CEM/Male**<br> |  | 0.14-0.37 | 26-22 | 7.5 | CEM-0.3 | T2030001002-000 | DEM-0.3 | T2030011002-000 |
| | | 0.5 | 20 | 7.5 | CEM-0.5 | T2030001005-000 | DEM-0.5 | T2030011005-000 |
| | | 0.75 | 18 | 7.5 | CEM-0.75 | T2030001008-000 | DEM-0.75 | T2030011008-000 |
| | | 1.0 | 18 | 7.5 | CEM-1.0 | T2030001010-000 | DEM-1.0 | T2030011010-000 |
| | | 1.5 | 16 | 7.5 | CEM-1.5 | T2030001015-000 | DEM-1.5 | T2030011015-000 |
| | | 2.5 | 14 | 7.5 | CEM-2.5 | T2030001025-000 | DEM-2.5 | T2030011025-000 |
| | | 4.0 | 12 | 7.5 | CEM-4.0 | T2030001040-000 | DEM-4.0 | T2030011040-000 |
| **CEF/Female**<br> |  | 0.14-0.37 | 26-22 | 7.5 | CEF-0.3 | T2030002002-000 | DEF-0.3 | T2030012002-000 |
| | | 0.5 | 20 | 7.5 | CEF-0.5 | T2030002005-000 | DEF-0.5 | T2030012005-000 |
| | | 0.75 | 18 | 7.5 | CEF-0.75 | T2030002008-000 | DEF-0.75 | T2030012008-000 |
| | | 1.0 | 18 | 7.5 | CEF-1.0 | T2030002010-000 | DEF-1.0 | T2030012010-000 |
| | | 1.5 | 16 | 7.5 | CEF-1.5 | T2030002015-000 | DEF-1.5 | T2030012015-000 |
| | | 2.5 | 14 | 7.5 | CEF-2.5 | T2030002025-000 | DEF-2.5 | T2030012025-000 |
| | | 4.0 | 12 | 7.5 | CEF-4.0 | T2030002040-000 | DEF-4.0 | T2030012040-000 |

### Distance for contact max. 21mm

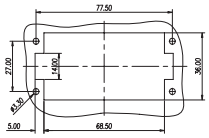


| | a | b | c | d |
|---|---|---|---|---|
| HE | 18 | 33 | 18 | 35 |
| HES/HEC | 19 | 34 | 19 | 36 |
| HESS | 34 | 49 | 32 | 49 |

### Contact arrangement view from termination side




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





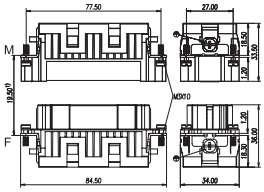
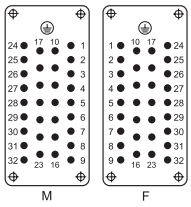
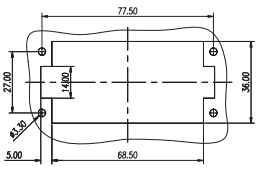
All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

## HEE-032 inserts

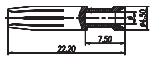
INSERTS FOR H16B HOOD/HOUSING

500V MAX. 16A

32+⏚

| Dimensions (mm) | | Type | Part Number | |
|---|---|---|---|---|
| | | | Male insert | Female insert |
| Crimp terminal (order crimp contacts separately) | | | | |
| |  | HEE-032-M | T2050322101-000 | |
| | | HEE-032-F | | T2050322201-000 |
| Contact arrangement view from termination side | Panel cut out for inserts for use without hoods/housings | | | |
|  |  | | | |

### 16A Contact

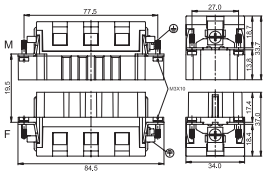
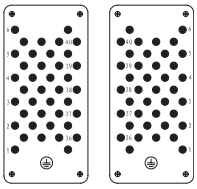
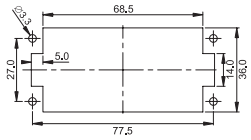
| Tech data<br>**Material:**<br>copper alloy<br>**Contact resistance:** ≤1mΩ<br>**Terminal:**<br>crimp connection | 16A Male crimp contacts | Wire gauge | | Strip-ping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|---|---|---|---|---|---|---|
| | | mm² | AWG | mm | Type | Part Number | Type | Part Number |
| **CEM/Male** | | 0.14-0.37 | 26-22 | 7.5 | CEM-0.3 | T2030001002-000 | DEM-0.3 | T2030011002-000 |
| | | 0.5 | 20 | 7.5 | CEM-0.5 | T2030001005-000 | DEM-0.5 | T2030011005-000 |
| | | 0.75 | 18 | 7.5 | CEM-0.75 | T2030001008-000 | DEM-0.75 | T2030011008-000 |
| | | 1.0 | 18 | 7.5 | CEM-1.0 | T2030001010-000 | DEM-1.0 | T2030011010-000 |
| | | 1.5 | 16 | 7.5 | CEM-1.5 | T2030001015-000 | DEM-1.5 | T2030011015-000 |
| | | 2.5 | 14 | 7.5 | CEM-2.5 | T2030001025-000 | DEM-2.5 | T2030011025-000 |
| | | 4.0 | 12 | 7.5 | CEM-4.0 | T2030001040-000 | DEM-4.0 | T2030011040-000 |
| **CEF/Female** | 16A Female crimp contacts  | 0.14-0.37 | 26-22 | 7.5 | CEF-0.3 | T2030002002-000 | DEF-0.3 | T2030012002-000 |
| | | 0.5 | 20 | 7.5 | CEF-0.5 | T2030002005-000 | DEF-0.5 | T2030012005-000 |
| | | 0.75 | 18 | 7.5 | CEF-0.75 | T2030002008-000 | DEF-0.75 | T2030012008-000 |
| | | 1.0 | 18 | 7.5 | CEF-1.0 | T2030002010-000 | DEF-1.0 | T2030012010-000 |
| | | 1.5 | 16 | 7.5 | CEF-1.5 | T2030002015-000 | DEF-1.5 | T2030012015-000 |
| | | 2.5 | 14 | 7.5 | CEF-2.5 | T2030002025-000 | DEF-2.5 | T2030012025-000 |
| | | 4.0 | 12 | 7.5 | CEF-4.0 | T2030002040-000 | DEF-4.0 | T2030012040-000 |

## HEEE-040 inserts

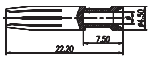
INSERTS FOR H16B HOOD/HOUSING

500V MAX. 16A

40+⏚

| Dimensions (mm) | | Type | Part Number | |
|---|---|---|---|---|
| | | | Male insert | Female insert |
| Crimp terminal (order crimp contacts separately) | | | | |
| |  | HEEE-040-M | T2050402101-000 | |
| | | HEEE-040-F | | T2050402201-000 |
| Contact arrangement view from termination side | Panel cut out for inserts for use without hoods/housings | | | |
|  M F |  | | | |

### 16A Contact

| Tech data<br>**Material:**<br>copper alloy<br>**Contact resistance:** ≤1mΩ<br>**Terminal:**<br>crimp connection | 16A Male crimp contacts | Wire gauge | | Stripping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|---|---|---|---|---|---|---|
| | | mm² | AWG | mm | Type | Part Number | Type | Part Number |
| **CEM/Male** | | 0.14-0.37 | 26-22 | 7.5 | CEM-0.3 | T2030001002-000 | DEM-0.3 | T2030011002-000 |
| | | 0.5 | 20 | 7.5 | CEM-0.5 | T2030001005-000 | DEM-0.5 | T2030011005-000 |
| | | 0.75 | 18 | 7.5 | CEM-0.75 | T2030001008-000 | DEM-0.75 | T2030011008-000 |
| | | 1.0 | 18 | 7.5 | CEM-1.0 | T2030001010-000 | DEM-1.0 | T2030011010-000 |
| | | 1.5 | 16 | 7.5 | CEM-1.5 | T2030001015-000 | DEM-1.5 | T2030011015-000 |
| | | 2.5 | 14 | 7.5 | CEM-2.5 | T2030001025-000 | DEM-2.5 | T2030011025-000 |
| | | 4.0 | 12 | 7.5 | CEM-4.0 | T2030001040-000 | DEM-4.0 | T2030011040-000 |
| **CEF/Female** | 16A Female crimp contacts  | 0.14-0.37 | 26-22 | 7.5 | CEF-0.3 | T2030002002-000 | DEF-0.3 | T2030012002-000 |
| | | 0.5 | 20 | 7.5 | CEF-0.5 | T2030002005-000 | DEF-0.5 | T2030012005-000 |
| | | 0.75 | 18 | 7.5 | CEF-0.75 | T2030002008-000 | DEF-0.75 | T2030012008-000 |
| | | 1.0 | 18 | 7.5 | CEF-1.0 | T2030002010-000 | DEF-1.0 | T2030012010-000 |
| | | 1.5 | 16 | 7.5 | CEF-1.5 | T2030002015-000 | DEF-1.5 | T2030012015-000 |
| | | 2.5 | 14 | 7.5 | CEF-2.5 | T2030002025-000 | DEF-2.5 | T2030012025-000 |
| | | 4.0 | 12 | 7.5 | CEF-4.0 | T2030002040-000 | DEF-4.0 | T2030012040-000 |



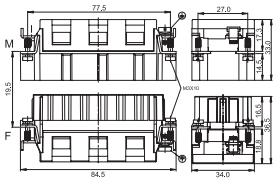
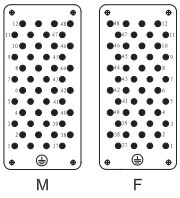
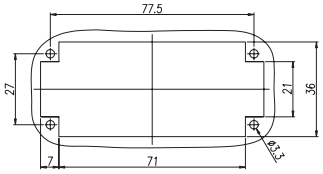
All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

## HEEE-048 inserts

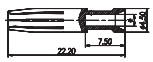
INSERTS FOR H16B HOOD/HOUSING

400V MAX. 16A

48+

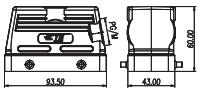
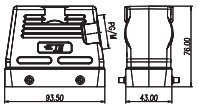
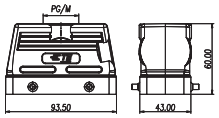
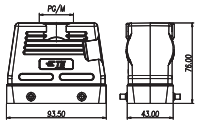
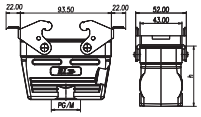
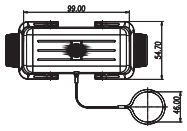
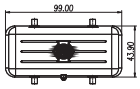
| Dimensions (mm) | | Type | Part Number | |
|---|---|---|---|---|
| | | | Male insert | Female insert |
| Crimp terminal (order crimp contacts separately) | | | | |
| |  | HEEE-048-F | T2050482101-000 | |
| | | HEEE-048-F | | T2050482201-000 |
| Contact arrangement view from termination side | Panel cut out for inserts for use without hoods/housings | | | |
|  |  | | | |

### 16A Contact

| Tech data<br>**Material:**<br>copper alloy<br>**Contact resistance:** ≤1mΩ<br>**Terminal:**<br>crimp connection | 16A Male crimp contacts | Wire gauge | | Strip-ping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|---|---|---|---|---|---|---|
| | | mm² | AWG | mm | Type | Part Number | Type | Part Number |
| **CEM/Male** | | 0.14-0.37 | 26-22 | 7.5 | CEM-0.3 | T2030001002-000 | DEM-0.3 | T2030011002-000 |
| | | 0.5 | 20 | 7.5 | CEM-0.5 | T2030001005-000 | DEM-0.5 | T2030011005-000 |
| | | 0.75 | 18 | 7.5 | CEM-0.75 | T2030001008-000 | DEM-0.75 | T2030011008-000 |
| | | 1.0 | 18 | 7.5 | CEM-1.0 | T2030001010-000 | DEM-1.0 | T2030011010-000 |
| | | 1.5 | 16 | 7.5 | CEM-1.5 | T2030001015-000 | DEM-1.5 | T2030011015-000 |
| | | 2.5 | 14 | 7.5 | CEM-2.5 | T2030001025-000 | DEM-2.5 | T2030011025-000 |
| | | 4.0 | 12 | 7.5 | CEM-4.0 | T2030001040-000 | DEM-4.0 | T2030011040-000 |
| **CEF/Female** | 16A Female crimp contacts  | 0.14-0.37 | 26-22 | 7.5 | CEF-0.3 | T2030002002-000 | DEF-0.3 | T2030012002-000 |
| | | 0.5 | 20 | 7.5 | CEF-0.5 | T2030002005-000 | DEF-0.5 | T2030012005-000 |
| | | 0.75 | 18 | 7.5 | CEF-0.75 | T2030002008-000 | DEF-0.75 | T2030012008-000 |
| | | 1.0 | 18 | 7.5 | CEF-1.0 | T2030002010-000 | DEF-1.0 | T2030012010-000 |
| | | 1.5 | 16 | 7.5 | CEF-1.5 | T2030002015-000 | DEF-1.5 | T2030012015-000 |
| | | 2.5 | 14 | 7.5 | CEF-2.5 | T2030002025-000 | DEF-2.5 | T2030012025-000 |
| | | 4.0 | 12 | 7.5 | CEF-4.0 | T2030002040-000 | DEF-4.0 | T2030012040-000 |

## H16B with 2 levers on the hoods/housings

POWDER-COATED, RAL 7037

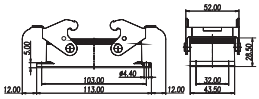
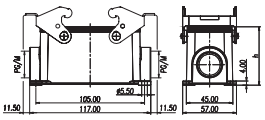
| Dimensions (mm) | | Metr. | PG | Type | Part Number |
|---|---|---|---|---|---|
| Hood: Side entry | | | | | |
| | Low construction  | M20<br>M25<br>M32 | PG16<br>PG21 | H16B-TS-PG16<br>H16B-TS-PG21<br>H16B-TS-M20<br>H16B-TS-M25<br>H16B-TS-M32 | T1210160116-000<br>T1210160121-000<br>T1210160120-000<br>T1210160125-000<br>T1210160132-000 |
| | High construction  | M25<br>M32<br>M40 | PG21<br>PG29 | H16B-TSH-PG21<br>H16B-TSH-PG29<br>H16B-TSH-M25<br>H16B-TSH-M32<br>H16B-TSH-M40 | T1230160121-000<br>T1230160129-000<br>T1230060125-000<br>T1230160132-000<br>T1230160140-000 |
| Hood: Top entry | | | | | |
| | Low construction  | M25<br>M32 | PG16<br>PG21 | H16B-TG-PG16<br>H16B-TG-PG21<br>H16B-TG-M25<br>H16B-TG-M32 | T1220160116-000<br>T1220160121-000<br>T1220160125-000<br>T1220160132-000 |
| | High construction  | M25<br>M32<br>M40 | PG21<br>PG29 | H16B-TGH-PG21<br>H16B-TGH-PG29<br>H16B-TGH-M25<br>H16B-TGH-M32<br>H16B-TGH-M40 | T1240160121-000<br>T1240160129-000<br>T1240160125-000<br>T1240160132-000<br>T1240160140-000 |
| Cable-to-cable hood | | | | | |
| |  Low construction High construction<br>Construction / H<br>Low / 62.5<br>Hight / 74.5 | M25<br>M32<br><br>M25<br>M32<br>M40 | PG21<br><br>PG21<br>PG29 | H16B-TBFS-PG21<br>H16B-TBFS-M25<br>H16B-TBFS-M32<br>H16B-TBFHS-PG21<br>H16B-TBFHS-PG29<br>H16B-TBFHS-M25<br>H16B-TBFHS-M32<br>H16B-TBFHS-M40 | T1710161121-000<br>T1710161125-000<br>T1710161132-000<br>T1750161121-000<br>T1750161129-000<br>T1750161125-000<br>T1750161132-000<br>T1750161140-000 |
| Protection covers for hoods | | | | | |
| |  | | | H16B-KDTP | T1010161400-000 |
| Housing protection cover | | | | | |
| |  | | | H16B-KDBP | T1010162100-000 |



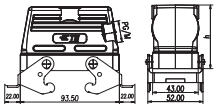
All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

## H16B with 2 levers on the hoods/housings

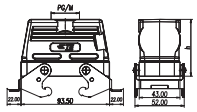
POWDER-COATED, RAL 7037

| Dimensions (mm) | Metr. | PG | Type | Part Number |
|---|---|---|---|---|
| **Bulkhead mounted** | | | | |
|  | | | H16B-AGS | T1410161000-000 |
| **Surface mounted: Side entry** | | | | |
|   | M25<br>M25<br>M25<br>M32<br>M25<br>M32 | PG21<br>PG21<br>PG21<br>PG29<br>PG21<br>PG29 | H16B-SGRS-PG21<br>H16B-SGRS-M25<br>H16B-SGRS-2PG21<br>H16B-SGRS-2M25<br>H16B-SGRHS-PG21<br>H16B-SGRHS-PG29<br>H16B-SGRHS-M25<br>H16B-SGRHS-M32<br>H16B-SGRHS-2PG21<br>H16B-SGRHS-2PG29<br>H16B-SGRHS-2M25<br>H16B-SGRHS-2M32 | T1440161121-000<br>T1440161125-000<br>T1440161221-000<br>T1440161225-000<br>T1470161121-000<br>T1470161129-000<br>T1470161125-000<br>T1470161132-000<br>T1470161221-000<br>T1470161229-000<br>T1470161225-000<br>T1470161232-000 |

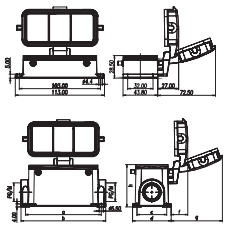
| Construction | H |
|---|---|
| Low | 56 |
| Hight | 81 |

| | | | | |
|---|---|---|---|---|
| **Side entry housing with two levers** | | | | |
|   | M20<br>M25<br>M25<br>M32 | PG16<br>PG21<br>PG21<br>PG29 | H16B-TSBS-PG16<br>H16B-TSBS-PG21<br>H16B-TSBS-M20<br>H16B-TSBS-M25<br>H16B-TSBHS-PG21<br>H16B-TSBHS-PG29<br>H16B-TSBHS-M25<br>H16B-TSBHS-M32 | T1250163116-000<br>T1250163121-000<br>T1250163120-000<br>T1250163125-000<br>T1270163121-000<br>T1270163129-000<br>T1270163125-000<br>T1270163132-000 |

| Construction | H |
|---|---|
| Low | 60 |
| Hight | 76 |

| | | | | |
|---|---|---|---|---|
| **Top entry housing with two levers** | | | | |
|   | M20<br>M25<br>M25<br>M32 | PG16<br>PG21<br>PG21<br>PG29 | H16B-TGBS-PG16<br>H16B-TGBS-PG21<br>H16B-TGBS-M20<br>H16B-TGBS-M25<br>H16B-TGBHS-PG21<br>H16B-TGBHS-PG29<br>H16B-TGBHS-M25<br>H16B-TGBHS-M32 | T1260163116-000<br>T1260163121-000<br>T1260163120-000<br>T1260163125-000<br>T1280163121-000<br>T1280163129-000<br>T1280163125-000<br>T1280163132-000 |

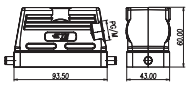
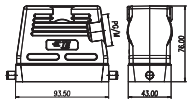
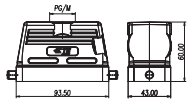
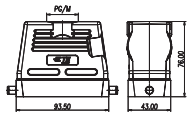
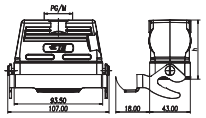
| Construction | H |
|---|---|
| Low | 60 |
| Hight | 76 |

| | | | | |
|---|---|---|---|---|
| **Bulkhead mounted with 4 bolts** | | | | |
| With protection cover   | M25<br>M25<br>M25<br>M32<br>M25<br>M32 | H16B-AD-BO<br>PG21<br>PG21<br>PG29<br>PG21<br>PG29 | T1430160000-000<br>H16B-SDR-BO-PG21<br>H16B-SDR-BO-M25<br>H16B-SDR-BO-2PG21<br>H16B-SDR-BO-2M25<br>H16B-SDRH-BO-PG21<br>H16B-SDRH-BO-PG29<br>H16B-SDRH-BO-M25<br>H16B-SDRH-BO-M32<br>H16B-SDRH-BO-2PG21<br>H16B-SDRH-BO-2PG29<br>H16B-SDRH-BO-2M25<br>H16B-SDRH-BO-2M32 | T1460160121-000<br>T1460160125-000<br>T1460160221-000<br>T1460160225-000<br>T1490160121-000<br>T1490160129-000<br>T1490160125-000<br>T1490160132-000<br>T1490160221-000<br>T1490160229-000<br>T1490160225-000<br>T1490160232-000 |

| 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 with 1 lever on the hoods/housings

POWDER-COATED, RAL 7037

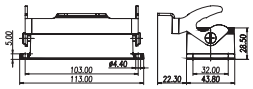
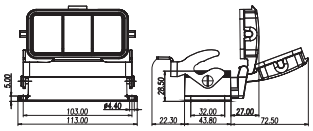
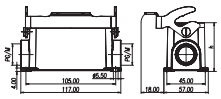
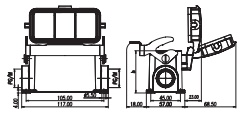
| Dimensions (mm) | | Metr. | PG | Type | Part Number |
|---|---|---|---|---|---|
| Hood: Side entry | | | | | |
| | Low construction  | M25<br>M32 | PG21<br>PG29 | H16B-TS-RO-PG21<br>H16B-TS-RO-PG29<br>H16B-TS-RO-M25<br>H16B-TS-RO-M32 | T1310160121-000<br>T1310160129-000<br>T1310160125-000<br>T1310160132-000 |
| | High construction  | M25<br>M32<br>M40 | PG21<br>PG29 | H16B-TSH-RO-PG21<br>H16B-TSH-RO-PG29<br>H16B-TSH-RO-M25<br>H16B-TSH-RO-M32<br>H16B-TSH-RO-M40 | T1330160121-000<br>T1330160129-000<br>T1330160125-000<br>T1330160132-000<br>T1330160140-000 |
| Hood: Top entry | | | | | |
| | Low construction  | M25<br>M32 | PG21<br>PG29 | H16B-TG-RO-PG21<br>H16B-TG-RO-PG29<br>H16B-TG-RO-M25<br>H16B-TG-RO-M32 | T1320160121-000<br>T1320160129-000<br>T1320160125-000<br>T1320160132-000 |
| | High construction  | M25<br>M32<br>M40 | PG21<br>PG29 | H16B-TGH-RO-PG21<br>H16B-TGH-RO-PG29<br>H16B-TGH-RO-M25<br>H16B-TGH-RO-M32<br>H16B-TGH-RO-M40 | T1340160121-000<br>T1340160129-000<br>T1340160125-000<br>T1340160132-000<br>T1340160140-000 |
| Cable-to-cable hood | | | | | |
| |  Low construction High construction<br>Construction / H<br>Low / 62.5<br>Hight / 74.5 | M25<br>M32<br><br><br>M25<br>M32<br>M40 | PG21<br>PG29<br><br><br>PG21<br>PG29 | H16B-TBF-LB-PG21<br>H16B-TBF-LB-PG29<br>H16B-TBF-LB-M25<br>H16B-TBF-LB-M32<br>H16B-TBFH-LB-PG21<br>H16B-TBFH-LB-PG29<br>H16B-TBFH-LB-M25<br>H16B-TBFH-LB-M32<br>H16B-TBFH-LB-M40 | T1730163121-000<br>T1730163129-000<br>T1730163125-000<br>T1730163132-000<br>T1770163121-000<br>T1770163129-000<br>T1770163125-000<br>T1770163132-000<br>T1770163140-000 |
| Protection covers for hoods | | | | | |
| | | | | H16B-KDTP-LB | T1010161500-000 |



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

## H16B with 1 lever on the hoods/housings

POWDER-COATED, RAL 7037

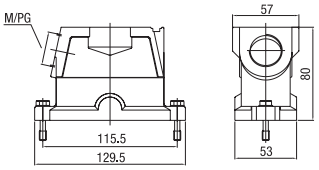
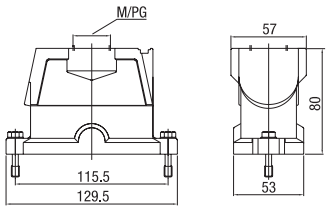
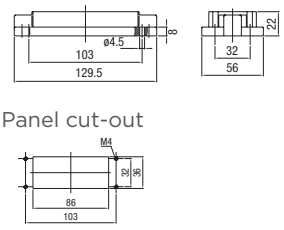
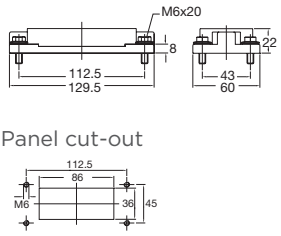
| Dimensions (mm) | Metr. | PG | Type | Part Number |
|---|---|---|---|---|
| Bulkhead mounted | | | | |
|  | | | H16B-AG-LB | T1500163000-000 |
| With protection cover  | | | H16B-AD-LB | T1510163000-000 |
| Surface mounted: Side entry | | | | |
|  1 Side entry Low construction 2 Side entry 1 Side entry High construction 2 Side entry | M20<br>M25<br><br><br>M20<br>M25<br><br><br>M25<br>M32<br><br><br>M25<br>M32 | PG16<br>PG21<br><br><br>PG16<br>PG21<br><br><br>PG21<br>PG29<br><br><br>PG21<br>PG29<br><br><br>M25<br>M32 | H16B-SGR-LB-PG16<br>H16B-SGR-LB-PG21<br>H16B-SGR-LB-M20<br>H16B-SGR-LB-M25<br>H16B-SGR-LB-2PG16<br>H16B-SGR-LB-2PG21<br>H16B-SGR-LB-2M20<br>H16B-SGR-LB-2M25<br>H16B-SGRH-LB-PG21<br>H16B-SGRH-LB-PG29<br>H16B-SGRH-LB-M25<br>H16B-SGRH-LB-M32<br>H16B-SGRH-LB-2PG21<br>H16B-SGRH-LB-2PG29<br>H16B-SGRH-LB-2M25<br>H16B-SGRH-LB-2M32 | T1610163116-000<br>T1610163121-000<br>T1610163120-000<br>T1610163125-000<br>T1610163216-000<br>T1610163221-000<br>T1610163220-000<br>T1610163225-000<br>T1650163121-000<br>T1650163129-000<br>T1650163125-000<br>T1650163132-000<br>T1650163221-000<br>T1650163229-000<br>T1650163225-000<br>T1650163232-000 |
| With protection cover  1 Side entry Low construction 2 Side entry 1 Side entry High construction 2 Side entry | M20<br>M25<br><br><br>M20<br>M25<br><br><br>M25<br>M32<br><br><br>M25<br>M32 | PG16<br>PG21<br><br><br>PG16<br>PG21<br><br><br>PG21<br>PG29<br><br><br>PG21<br>PG29<br><br><br>M25<br>M32 | H16B-SDR-LB-PG16<br>H16B-SDR-LB-PG21<br>H16B-SDR-LB-M20<br>H16B-SDR-LB-M25<br>H16B-SDR-LB-2PG16<br>H16B-SDR-LB-2PG21<br>H16B-SDR-LB-2M20<br>H16B-SDR-LB-2M25<br>H16B-SDRH-LB-PG21<br>H16B-SDRH-LB-PG29<br>H16B-SDRH-LB-M25<br>H16B-SDRH-LB-M32<br>H16B-SDRH-LB-2PG21<br>H16B-SDRH-LB-2PG29<br>H16B-SDRH-LB-2M25<br>H16B-SDRH-LB-2M32 | T1620163116-000<br>T1620163121-000<br>T1620163120-000<br>T1620163125-000<br>T1620163216-000<br>T1620163221-000<br>T1620163220-000<br>T1620163225-000<br>T1660163121-000<br>T1660163129-000<br>T1660163125-000<br>T1660163132-000<br>T1660163221-000<br>T1660163229-000<br>T1660163225-000<br>T1660163232-000 |

| Construction | H |
|---|---|
| Low | 56 |
| Hight | 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**<br>HIP.16/40.STS.1.21.G | 1-1102649-5 |
| | | | 29 | HIP.16/40.STS.1.29.G | 1-1102651-5 |
| | | | | HIP.16/40.STS.1.M32.G | 0-1106454-2 |
| | | | 29 | **HIP-K**<br>HIP-K.16/40.STS.1.29.G | 2-1102651-5 |
| | | M32 | | HIP-K.16/40.STS.1.M32.G | 0-1106444-2 |
| | | | 29 | **EMV-K**<br>EMV-K.16/40.STS.1.29.G | 4-1102723-5 |
| | | M32 | | EMV-K.16/40.STS.1.M32.G | 0-1106446-4 |
| | | | 21 | EMV-K.16/40.STS.1.21.G | 4-1102722-5 |
| **Hood:** Top entry | | | | | |
| |  | | | **HIP** | |
| | | M32 | 21 | HIP.16/40.STO.1.21.G | 1-1102653-5 |
| | | | 29 | HIP.16/40.STO.1.29.G | 1-1102655-5 |
| | | | | HIP.16/40.STO.1.M32.G | 0-1106454-1 |
| | | | | **HIP-K** | |
| | | | 21 | HIP-K.16/40.STO.2.21.G | 0-1108534-1 |
| | | | 29 | HIP-K.16/40.STO.1.29.G | 2-1102655-5 |
| | | M32 | | HIP-K.16/40.STO.1.M32.G | 0-1106444-1 |
| | | | | **EMV-K** | |
| | | | 29 | EMV-K.16/40.STO.1.29.G | 4-1102725-5 |
| | | M32 | | EMV-K.16/40.STO.1.M32.G | 0-1106446-3 |
| **Surface mounted housing:** Bottom entry | | | | | |
| |  | | | **HIP**<br>HIP.16/40.AG | 1-1102656-5 |
| | | | | **HIP-K**<br>HIP-K.16/40.AG | 2-1102656-5 |
| | | | | **EMV-K**<br>EMV-K.16/40.AG | 4-1102728-5 |
| |  | | | **HIP**<br>HIP.16/40.AG.M6 | 1-1102618-5 |
| | | | | **HIP-K**<br>HIP-K.16/40.AG.M6 | 2-1102618-5 |
| | | | | **EMV-K**<br>EMV-K.16/40.AG.M6 | 4-1102730-5 |

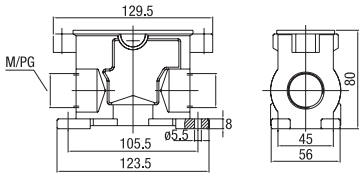
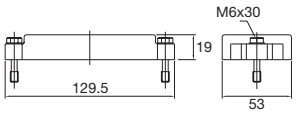


All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

## 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**

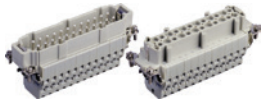
| Description | | Metr. | PG | Type | Part Number |
|---|---|---|---|---|---|
| **Surface mounted housing:** Side entry | | | | | |
| |  | | | **HIP** | |
| | | | 21 | HIP.16/40.SG.1.21.G | 1-1102616-5 |
| | | | 2x21 | HIP.16/40.SG.2.21.G | 1-1102617-5 |
| | | 2xM32 | | HIP.16/40.SG.2.M32.G | 0-1106453-1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

## HE-024 inserts

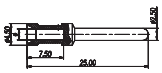
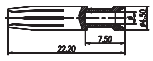
INSERTS FOR H24B HOOD/HOUSING

500V MAX. 16A

24+⏚

| Dimension (mm) | Type | Part Number | |
|---|---|---|---|
| | | Male insert | Female insert |
| Screw terminal | | | |
| | HE-024-M | T2040242101-000 | |
| | HE-024-F | | T2040242201-000 |
| Spring terminal | | | |
| | HE-024-MS | T2040243101-000 | |
| | HE-024-FS | | T2040243201-000 |
| Crimp terminal (Order crimp contacts separately) | | | |
| | HE-024-MC | T2040244101-000 | |
| | HE-024-FC | | T2040244201-000 |
| Spring terminal (Two terminals per contact) | | | |
|  | HE-024-MSS | T2040245101-000 | |
| | HE-024-FSS | | T2040245201-000 |

### 16A Contact

| Tech data | 16A Male crimp contacts | Wire gauge | | Stripping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|---|---|---|---|---|---|---|
| **Material:** copper alloy<br>**Contact resistance:** ≤1mΩ<br>**Terminal:** crimp connection<br>**CEM/Male** |  | mm² | AWG | mm | Type | Part Number | Type | Part Number |
| | | 0.14-0.37 | 26-22 | 7.5 | CEM-0.3 | T2030001002-000 | DEM-0.3 | T2030011002-000 |
| | | 0.5 | 20 | 7.5 | CEM-0.5 | T2030001005-000 | DEM-0.5 | T2030011005-000 |
| | | 0.75 | 18 | 7.5 | CEM-0.75 | T2030001008-000 | DEM-0.75 | T2030011008-000 |
| | | 1.0 | 18 | 7.5 | CEM-1.0 | T2030001010-000 | DEM-1.0 | T2030011010-000 |
| | | 1.5 | 16 | 7.5 | CEM-1.5 | T2030001015-000 | DEM-1.5 | T2030011015-000 |
| | | 2.5 | 14 | 7.5 | CEM-2.5 | T2030001025-000 | DEM-2.5 | T2030011025-000 |
| | | 4.0 | 12 | 7.5 | CEM-4.0 | T2030001040-000 | DEM-4.0 | T2030011040-000 |
| **CEF/Female** | **16A Female crimp contacts**  | 0.14-0.37 | 26-22 | 7.5 | CEF-0.3 | T2030002002-000 | DEF-0.3 | T2030012002-000 |
| | | 0.5 | 20 | 7.5 | CEF-0.5 | T2030002005-000 | DEF-0.5 | T2030012005-000 |
| | | 0.75 | 18 | 7.5 | CEF-0.75 | T2030002008-000 | DEF-0.75 | T2030012008-000 |
| | | 1.0 | 18 | 7.5 | CEF-1.0 | T2030002010-000 | DEF-1.0 | T2030012010-000 |
| | | 1.5 | 16 | 7.5 | CEF-1.5 | T2030002015-000 | DEF-1.5 | T2030012015-000 |
| | | 2.5 | 14 | 7.5 | CEF-2.5 | T2030002025-000 | DEF-2.5 | T2030012025-000 |
| | | 4.0 | 12 | 7.5 | CEF-4.0 | T2030002040-000 | DEF-4.0 | T2030012040-000 |



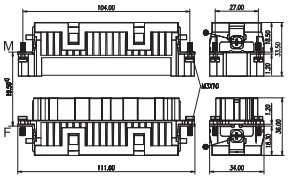
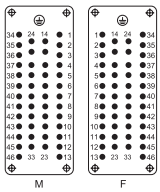
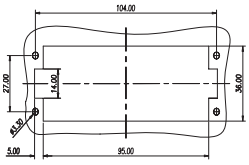
All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

# HEE-046 inserts

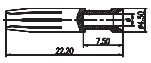
INSERTS FOR H24B HOOD/HOUSING

500V MAX. 16A

46+⏚

| Dimensions (mm) | | Type | Part Number | |
|---|---|---|---|---|
| | | | Male insert | Female insert |
| Crimp terminal (order crimp contacts separately) | | | | |
| |  | HEE-046-M | T2050462101-000 | |
| | | HEE-046-F | | T2050462201-000 |
| Contact arrangement view from termination side | Panel cut out for inserts for use without hoods/housings | | | |
|  |  | | | |

## 16A Contact

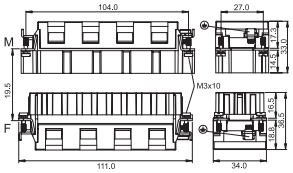
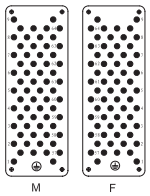
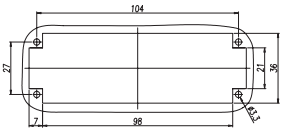
| Tech data<br>**Material:**<br>copper alloy<br>**Contact resistance:** ≤1mΩ<br>**Terminal:**<br>crimp connection | 16A Male crimp contacts | Wire gauge | | Stripping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|---|---|---|---|---|---|---|
| | | mm² | AWG | mm | Type | Part Number | Type | Part Number |
| **CEM/Male** | | 0.14-0.37 | 26-22 | 7.5 | CEM-0.3 | T2030001002-000 | DEM-0.3 | T2030011002-000 |
| | | 0.5 | 20 | 7.5 | CEM-0.5 | T2030001005-000 | DEM-0.5 | T2030011005-000 |
| | | 0.75 | 18 | 7.5 | CEM-0.75 | T2030001008-000 | DEM-0.75 | T2030011008-000 |
| | | 1.0 | 18 | 7.5 | CEM-1.0 | T2030001010-000 | DEM-1.0 | T2030011010-000 |
| | | 1.5 | 16 | 7.5 | CEM-1.5 | T2030001015-000 | DEM-1.5 | T2030011015-000 |
| | | 2.5 | 14 | 7.5 | CEM-2.5 | T2030001025-000 | DEM-2.5 | T2030011025-000 |
| | | 4.0 | 12 | 7.5 | CEM-4.0 | T2030001040-000 | DEM-4.0 | T2030011040-000 |
| **CEF/Female** | 16A Female crimp contacts  | 0.14-0.37 | 26-22 | 7.5 | CEF-0.3 | T2030002002-000 | DEF-0.3 | T2030012002-000 |
| | | 0.5 | 20 | 7.5 | CEF-0.5 | T2030002005-000 | DEF-0.5 | T2030012005-000 |
| | | 0.75 | 18 | 7.5 | CEF-0.75 | T2030002008-000 | DEF-0.75 | T2030012008-000 |
| | | 1.0 | 18 | 7.5 | CEF-1.0 | T2030002010-000 | DEF-1.0 | T2030012010-000 |
| | | 1.5 | 16 | 7.5 | CEF-1.5 | T2030002015-000 | DEF-1.5 | T2030012015-000 |
| | | 2.5 | 14 | 7.5 | CEF-2.5 | T2030002025-000 | DEF-2.5 | T2030012025-000 |
| | | 4.0 | 12 | 7.5 | CEF-4.0 | T2030002040-000 | DEF-4.0 | T2030012040-000 |

## HEEE-064 inserts

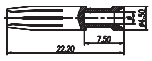
INSERTS FOR H24B HOOD/HOUSING

500V MAX. 16A

64+⏚

| Dimensions (mm) | | Type | Part Number | |
|---|---|---|---|---|
| | | | Male insert | Female insert |
| Crimp terminal (order crimp contacts separately) | | | | |
| |  | HEEE-064-M | T2050643101-000 | |
| | | HEEE-064-F | | T2050643201-000 |
| Contact arrangement view from termination side | Panel cut out for inserts for use without hoods/housings | | | |
|  |  | | | |

### 16A Contact

| Tech data<br>**Material:**<br>copper alloy<br>**Contact resistance:** ≤1mΩ<br>**Terminal:**<br>crimp connection | 16A Male crimp contacts | Wire gauge | | Stripping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|---|---|---|---|---|---|---|
| | | mm² | AWG | mm | Type | Part Number | Type | Part Number |
| **CEM/Male** | | 0.14-0.37 | 26-22 | 7.5 | CEM-0.3 | T2030001002-000 | DEM-0.3 | T2030011002-000 |
| | | 0.5 | 20 | 7.5 | CEM-0.5 | T2030001005-000 | DEM-0.5 | T2030011005-000 |
| | | 0.75 | 18 | 7.5 | CEM-0.75 | T2030001008-000 | DEM-0.75 | T2030011008-000 |
| | | 1.0 | 18 | 7.5 | CEM-1.0 | T2030001010-000 | DEM-1.0 | T2030011010-000 |
| | | 1.5 | 16 | 7.5 | CEM-1.5 | T2030001015-000 | DEM-1.5 | T2030011015-000 |
| | | 2.5 | 14 | 7.5 | CEM-2.5 | T2030001025-000 | DEM-2.5 | T2030011025-000 |
| | | 4.0 | 12 | 7.5 | CEM-4.0 | T2030001040-000 | DEM-4.0 | T2030011040-000 |
| **CEF/Female** | 16A Female crimp contacts  | 0.14-0.37 | 26-22 | 7.5 | CEF-0.3 | T2030002002-000 | DEF-0.3 | T2030012002-000 |
| | | 0.5 | 20 | 7.5 | CEF-0.5 | T2030002005-000 | DEF-0.5 | T2030012005-000 |
| | | 0.75 | 18 | 7.5 | CEF-0.75 | T2030002008-000 | DEF-0.75 | T2030012008-000 |
| | | 1.0 | 18 | 7.5 | CEF-1.0 | T2030002010-000 | DEF-1.0 | T2030012010-000 |
| | | 1.5 | 16 | 7.5 | CEF-1.5 | T2030002015-000 | DEF-1.5 | T2030012015-000 |
| | | 2.5 | 14 | 7.5 | CEF-2.5 | T2030002025-000 | DEF-2.5 | T2030012025-000 |
| | | 4.0 | 12 | 7.5 | CEF-4.0 | T2030002040-000 | DEF-4.0 | T2030012040-000 |



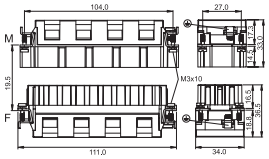
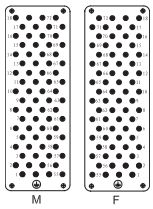
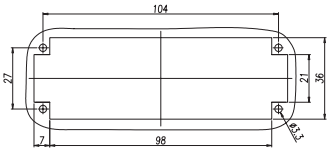
All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

## HEEE-072 inserts

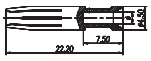
INSERTS FOR H24B HOOD/HOUSING

400V MAX. 16A

72+⏚

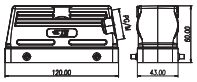
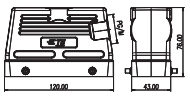
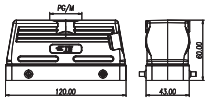
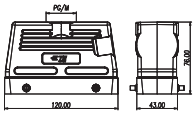
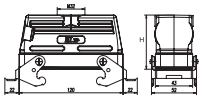
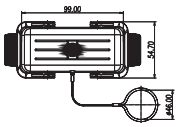
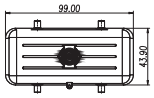
| Dimensions (mm) | | Type | Part Number | |
|---|---|---|---|---|
| | | | Male insert | Female insert |
| Crimp terminal (order crimp contacts separately) | | | | |
| |  | HEEE-072-M | T2050722101-000 | |
| | | HEEE-072-F | | T2050722201-000 |
| Contact arrangement view from termination side | Panel cut out for inserts for use without hoods/housings | | | |
|  |  | | | |

### 16A Contact

| Tech data<br>**Material:**<br>copper alloy<br>**Contact resistance:** ≤1mΩ<br>**Terminal:**<br>crimp connection | 16A Male crimp contacts | Wire gauge | | Stripping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|---|---|---|---|---|---|---|
| | | mm² | AWG | mm | Type | Part Number | Type | Part Number |
| **CEM/Male** | | 0.14-0.37 | 26-22 | 7.5 | CEM-0.3 | T2030001002-000 | DEM-0.3 | T2030011002-000 |
| | | 0.5 | 20 | 7.5 | CEM-0.5 | T2030001005-000 | DEM-0.5 | T2030011005-000 |
| | | 0.75 | 18 | 7.5 | CEM-0.75 | T2030001008-000 | DEM-0.75 | T2030011008-000 |
| | | 1.0 | 18 | 7.5 | CEM-1.0 | T2030001010-000 | DEM-1.0 | T2030011010-000 |
| | | 1.5 | 16 | 7.5 | CEM-1.5 | T2030001015-000 | DEM-1.5 | T2030011015-000 |
| | | 2.5 | 14 | 7.5 | CEM-2.5 | T2030001025-000 | DEM-2.5 | T2030011025-000 |
| | | 4.0 | 12 | 7.5 | CEM-4.0 | T2030001040-000 | DEM-4.0 | T2030011040-000 |
| **CEF/Female** | 16A Female crimp contacts  | 0.14-0.37 | 26-22 | 7.5 | CEF-0.3 | T2030002002-000 | DEF-0.3 | T2030012002-000 |
| | | 0.5 | 20 | 7.5 | CEF-0.5 | T2030002005-000 | DEF-0.5 | T2030012005-000 |
| | | 0.75 | 18 | 7.5 | CEF-0.75 | T2030002008-000 | DEF-0.75 | T2030012008-000 |
| | | 1.0 | 18 | 7.5 | CEF-1.0 | T2030002010-000 | DEF-1.0 | T2030012010-000 |
| | | 1.5 | 16 | 7.5 | CEF-1.5 | T2030002015-000 | DEF-1.5 | T2030012015-000 |
| | | 2.5 | 14 | 7.5 | CEF-2.5 | T2030002025-000 | DEF-2.5 | T2030012025-000 |
| | | 4.0 | 12 | 7.5 | CEF-4.0 | T2030002040-000 | DEF-4.0 | T2030012040-000 |

## H24B with 2 levers on the hoods/housings

POWDER-COATED, RAL 7037

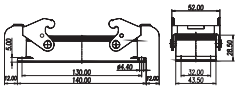
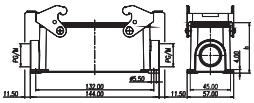
| Dimensions (mm) | | Metr. | PG | Type | Part Number |
|---|---|---|---|---|---|
| Hood: Side entry | | | | | |
| | Low construction  | M25<br>M32 | PG16<br>PG21 | H24B-TS-PG16<br>H24B-TS-PG21<br>H24B-TS-M25<br>H24B-TS-M32 | T1210240116-000<br>T1210240121-000<br>T1210240125-000<br>T1210240132-000 |
| | High construction  | M25<br>M32<br>M40 | PG21<br>PG29 | H24B-TSH-PG21<br>H24B-TSH-PG29<br>H24B-TSH-M25<br>H24B-TSH-M32<br>H24B-TSH-M40 | T1230240121-000<br>T1230240129-000<br>T1230240125-000<br>T1230240132-000<br>T1230240140-000 |
| Hood: Top entry | | | | | |
| | Low construction  | M25<br>M32 | PG16<br>PG21 | H24B-TG-PG16<br>H24B-TG-PG21<br>H24B-TG-M25<br>H24B-TG-M32 | T1220240116-000<br>T1220240121-000<br>T1220240125-000<br>T1220240132-000 |
| | High construction  | M25<br>M32<br>M40 | PG21<br>PG29 | H24B-TGH-PG21<br>H24B-TGH-PG29<br>H24B-TGH-M25<br>H24B-TGH-M32<br>H24B-TGH-M40 | T1240240121-000<br>T1240240129-000<br>T1240240125-000<br>T1240240132-000<br>T1240240140-000 |
| Cable-to-cable hood | | | | | |
| |  Low construction High construction<br>Construction / H<br>Low / 62.5<br>Hight / 78.5 | M25<br>M32<br><br>M25<br>M32<br>M40 | PG21<br><br>PG21<br>PG29 | H24B-TBFS-PG21<br>H24B-TBFS-M25<br>H24B-TBFS-M32<br>H24B-TBFHS-PG21<br>H24B-TBFHS-PG29<br>H24B-TBFHS-M25<br>H24B-TBFHS-M32<br>H24B-TBFHS-M40 | T1710241121-000<br>T1710241125-000<br>T1710241132-000<br>T1750241121-000<br>T1750241129-000<br>T1750241125-000<br>T1750241132-000<br>T1750241140-000 |
| Protection covers for hoods | | | | | |
| |  | | | H24B-KDTP | T1010241400-000 |
| Housing protection cover | | | | | |
| |  | | | H24B-KDBP | T1010242100-000 |



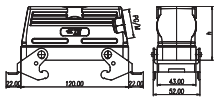
All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

## H24B with 2 levers on the hoods/housings

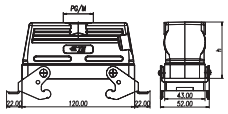
POWDER-COATED, RAL 7037

| Dimensions (mm) | Metr. | PG | Type | Part Number |
|---|---|---|---|---|
| **Bulkhead mounted** | | | | |
|  | | | H24B-AGS | T1410241000-000 |
| **Surface mounted: Side entry** | | | | |
|  1 Side entry Low construction 2 Side entry 1 Side entry High construction 2 Side entry | M25<br>M25<br>M25<br>M32<br>M25<br>M32 | PG21<br>PG21<br>PG21<br>PG29<br>PG21<br>PG29 | H24B-SGRS-PG21<br>H24B-SGRS-M25<br>H24B-SGRS-2PG21<br>H24B-SGRS-2M25<br>H24B-SGRHS-PG21<br>H24B-SGRHS-PG29<br>H24B-SGRHS-M25<br>H24B-SGRHS-M32<br>H24B-SGRHS-2PG21<br>H24B-SGRHS-2PG29<br>H24B-SGRHS-2M25<br>H24B-SGRHS-2M32 | T1440241121-000<br>T1440241125-000<br>T1440241221-000<br>T1440241225-000<br>T1470241121-000<br>T1470241129-000<br>T1470241125-000<br>T1470241132-000<br>T1470241221-000<br>T1470241229-000<br>T1470241225-000<br>T1470241232-000 |

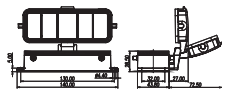
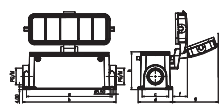
| Construction | H |
|---|---|
| Low | 56 |
| Hight | 81 |

| **Side entry housing with two levers** | | | | |
|---|---|---|---|---|
|  Low construction High construction | M20<br>M25<br>M25<br>M32 | PG16<br>PG21<br>PG21<br>PG29 | H24B-TSBS-PG16<br>H24B-TSBS-PG21<br>H24B-TSBS-M20<br>H24B-TSBS-M25<br>H24B-TSBHS-PG21<br>H24B-TSBHS-PG29<br>H24B-TSBHS-M25<br>H24B-TSBHS-M32 | T1250243116-000<br>T1250243121-000<br>T1250243120-000<br>T1250243125-000<br>T1270243121-000<br>T1270243129-000<br>T1270243125-000<br>T1270243132-000 |

| Construction | H |
|---|---|
| Low | 60 |
| Hight | 76 |

| **Top entry housing with two levers** | | | | |
|---|---|---|---|---|
|  Low construction High construction | M20<br>M25<br>M25<br>M32 | PG16<br>PG21<br>PG21<br>PG29 | H24B-TGBS-PG16<br>H24B-TGBS-PG21<br>H24B-TGBS-M20<br>H24B-TGBS-M25<br>H24B-TGBHS-PG21<br>H24B-TGBHS-PG29<br>H24B-TGBHS-M25<br>H24B-TGBHS-M32 | T1260243116-000<br>T1260243121-000<br>T1260243120-000<br>T1260243125-000<br>T1280243121-000<br>T1280243129-000<br>T1280243125-000<br>T1280243132-000 |

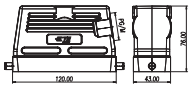
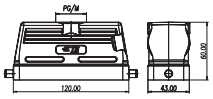
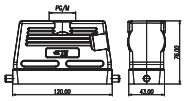
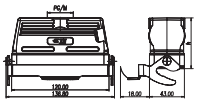
| Construction | H |
|---|---|
| Low | 60 |
| Hight | 76 |

| **Bulkhead mounted with 4 bolts** | | | | |
|---|---|---|---|---|
| With protection cover   1 Side entry Low construction 2 Side entry 1 Side entry High construction 2 Side entry | | | H24B-AD-BO | T1430240000-000 |
| | M25<br>M25<br>M25<br>M32<br>M25<br>M32 | PG21<br>PG21<br>PG21<br>PG29<br>PG21<br>PG29 | H24B-SDR-BO-PG21<br>H24B-SDR-BO-M25<br>H24B-SDR-BO-2PG21<br>H24B-SDR-BO-2M25<br>H24B-SDRH-BO-PG21<br>H24B-SDRH-BO-PG29<br>H24B-SDRH-BO-M25<br>H24B-SDRH-BO-M32<br>H24B-SDRH-BO-2PG21<br>H24B-SDRH-BO-2PG29<br>H24B-SDRH-BO-2M25<br>H24B-SDRH-BO-2M32 | T1460240121-000<br>T1460240125-000<br>T1460240221-000<br>T1460240225-000<br>T1490240121-000<br>T1490240129-000<br>T1490240125-000<br>T1490240132-000<br>T1490240221-000<br>T1490240229-000<br>T1490240225-000<br>T1490240232-000 |

| Construction | A | B | C | D | F | G | H |
|---|---|---|---|---|---|---|---|
| Low | 132 | 144 | 45 | 57 | 20 | 65 | 56 |
| Hight | 132 | 144 | 45 | 57 | 20 | 65 | 81 |

## H24B with 1 lever on the hoods/housings

POWDER-COATED, RAL 7037

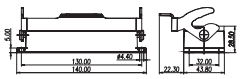
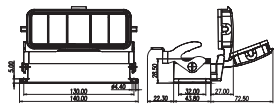
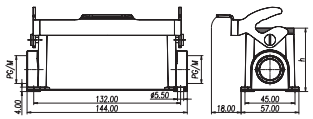
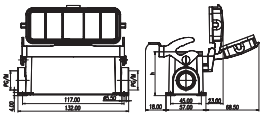
| Dimensions (mm) | | Metr. | PG | Type | Part Number |
|---|---|---|---|---|---|
| Hood: Side entry | | | | | |
| | Low construction | M25<br>M32 | PG21<br>PG29 | H24B-TS-RO-PG21<br>H24B-TS-RO-PG29<br>H24B-TS-RO-M25<br>H24B-TS-RO-M32 | T1310240121-000<br>T1310240129-000<br>T1310240125-000<br>T1310240132-000 |
| | High construction  | M25<br>M32<br>M40 | PG21<br>PG29 | H24B-TSH-RO-PG21<br>H24B-TSH-RO-PG29<br>H24B-TSH-RO-M25<br>H24B-TSH-RO-M32<br>H24B-TSH-RO-M40 | T1330240121-000<br>T1330240129-000<br>T1330240125-000<br>T1330240132-000<br>T1330240140-000 |
| Hood: Top entry | | | | | |
| | Low construction  | M25<br>M32 | PG21<br>PG29 | H24B-TG-RO-PG21<br>H24B-TG-RO-PG29<br>H24B-TG-RO-M25<br>H24B-TG-RO-M32 | T1320240121-000<br>T1320240129-000<br>T1320240125-000<br>T1320240132-000 |
| | High construction  | M25<br>M32<br>M40 | PG21<br>PG29 | H24B-TGH-RO-PG21<br>H24B-TGH-RO-PG29<br>H24B-TGH-RO-M25<br>H24B-TGH-RO-M32<br>H24B-TGH-RO-M40 | T1340240121-000<br>T1340240129-000<br>T1340240125-000<br>T1340240132-000<br>T1340240140-000 |
| Cable-to-cable hood | | | | | |
| |  Low construction High construction<br>Construction / H<br>Low / 62.5<br>Hight / 78.5 | M25<br>M32<br><br>M25<br>M32<br>M40 | PG21<br>PG29<br><br>PG21<br>PG29 | H24B-TBF-LB-PG21<br>H24B-TBF-LB-PG29<br>H24B-TBF-LB-M25<br>H24B-TBF-LB-M32<br>H24B-TBFH-LB-PG21<br>H24B-TBFH-LB-PG29<br>H24B-TBFH-LB-M25<br>H24B-TBFH-LB-M32<br>H24B-TBFH-LB-M40 | T1730242121-000<br>T1730242129-000<br>T1730242125-000<br>T1730242132-000<br>T1770243121-000<br>T1770243129-000<br>T1770243125-000<br>T1770243132-000<br>T1770243140-000 |
| Protection covers for hoods | | | | | |
| | | | | H24B-KDTP-LB | T1010241500-000 |



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

## H24B with 1 lever on the hoods/housings

POWDER-COATED, RAL 7037

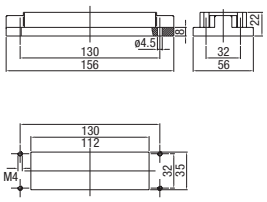
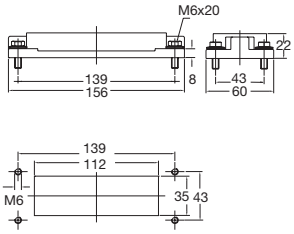
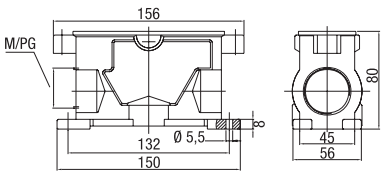
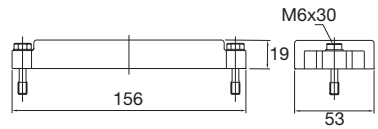
| Dimensions (mm) | Metr. | PG | Type | Part Number |
|---|---|---|---|---|
| Bulkhead mounted | | | | |
|  | | | H24B-AG-LB | T1500243000-000 |
| With protection cover  | | | H24B-AD-LB | T1510243000-000 |
| Surface mounted: Side entry | | | | |
|  1 Side entry Low construction 2 Side entry 1 Side entry High construction 2 Side entry | M20<br>M25<br><br><br><br>M20<br>M25<br><br><br><br>M25<br>M32<br><br><br><br>M25<br>M32 | PG16<br>PG21<br><br><br>PG16<br>PG21<br><br><br>PG21<br>PG29<br><br><br>PG21<br>PG29<br><br><br> | H24B-SGR-LB-PG16<br>H24B-SGR-LB-PG21<br>H24B-SGR-LB-M20<br>H24B-SGR-LB-M25<br>H24B-SGR-LB-2PG16<br>H24B-SGR-LB-2PG21<br>H24B-SGR-LB-2M20<br>H24B-SGR-LB-2M25<br>H24B-SGRH-LB-PG21<br>H24B-SGRH-LB-PG29<br>H24B-SGRH-LB-M25<br>H24B-SGRH-LB-M32<br>H24B-SGRH-LB-2PG21<br>H24B-SGRH-LB-2PG29<br>H24B-SGRH-LB-2M25<br>H24B-SGRH-LB-2M32 | T1610243116-000<br>T1610243121-000<br>T1610243120-000<br>T1610243125-000<br>T1610243216-000<br>T1610243221-000<br>T1610243220-000<br>T1610243225-000<br>T1650243121-000<br>T1650243129-000<br>T1650243125-000<br>T1650243132-000<br>T1650243221-000<br>T1650243229-000<br>T1650243225-000<br>T1650243232-000 |
| With protection cover  1 Side entry Low construction 2 Side entry 1 Side entry High construction 2 Side entry | M20<br>M25<br><br><br><br>M20<br>M25<br><br><br><br>M25<br>M32<br><br><br><br>M25<br>M32 | PG16<br>PG21<br><br><br>PG16<br>PG21<br><br><br>PG21<br>PG29<br><br><br>PG21<br>PG29<br><br><br> | H24B-SDR-LB-PG16<br>H24B-SDR-LB-PG21<br>H24B-SDR-LB-M20<br>H24B-SDR-LB-M25<br>H24B-SDR-LB-2PG16<br>H24B-SDR-LB-2PG21<br>H24B-SDR-LB-2M20<br>H24B-SDR-LB-2M25<br>H24B-SDRH-LB-PG21<br>H24B-SDRH-LB-PG29<br>H24B-SDRH-LB-M2S<br>H24B-SDRH-LB-M32<br>H24B-SDRH-LB-2PG21<br>H24B-SDRH-LB-2PG29<br>H24B-SDRH-LB-2M25<br>H24B-SDRH-LB-2M32 | T1620243116-000<br>T1620243121-000<br>T1620243120-000<br>T1620243125-000<br>T1620243216-000<br>T1620243221-000<br>T1620243220-000<br>T1620243225-000<br>T1660243121-000<br>T1660243129-000<br>T1660243125-000<br>T1660243132-000<br>T1660243221-000<br>T1660243229-000<br>T1660243225-000<br>T1660243232-000 |

| 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**<br>HIP.24/64.AG<br><br>**HIP-K**<br>HIP-K.24/64.AG<br><br>**EMV-K**<br>EMV-K.24/64.AG | <br>1-1102665-5<br><br><br>2-1102665-5<br><br><br>4-1102760-5 |
| |  | | | **HIP**<br>HIP.24/64.AG.M6<br><br>**HIP-K**<br>HIP-K.24/64.AG.M6<br>HIP-K.24/64.AG.M6.D<br>HIP-K-I.24/64.AG.M6.D<br><br>**EMV-K**<br>EMV-K.24/64.AG.M6 | <br>1-1102626-5<br><br><br>2-1102626-5<br>2-1102628-5<br>0-1108533-1<br><br><br>4-1102736-5 |
| **Surface mounted housing:** Side entry, Standard construction | | | | | |
| |  | 2xM40<br><br><br><br><br>2xM40<br><br><br><br>2xM40 | 29<br>2x29<br><br><br>29<br>2x29<br><br><br>29<br>2x29 | **HIP**<br>HIP.24/64.SG.1.29.G<br>HIP.24/64.SG.2.29.G<br>HIP.24/64.SG.2.M40.G<br><br>**HIP-K**<br>HIP-K.24/64.SG.1.29.G<br>HIP-K.24/64.SG.2.29.G<br>HIP-K.24/64.SG.2.M40.G<br><br>**EMV-K**<br>EMV-K.24/64.SG.1.29.G<br>EMV-K.24/64.SG.2.29.G<br>EMV-K.24/64.SG.2.M40.G | <br>1-1102624-5<br>1-1102625-5<br>0-1106472-1<br><br><br>5-1102624-5<br>2-1102625-5<br>0-1106472-2<br><br><br>4-1102734-5<br>4-1102735-5<br>0-1106460-2 |
| **Protective cover housings** | | | | | |
| |  | | | **HIP**<br>HIP/EMV.24/64.SKB<br><br>**HIP-K/EMV-K**<br>HIP-K/EMV-K.24/64.SKB | <br>3-1106204-5<br><br><br>4-1106204-5 |

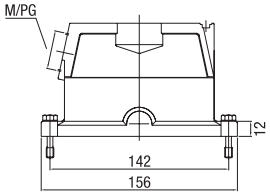
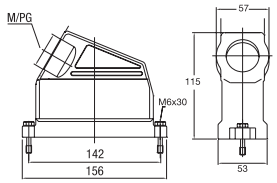
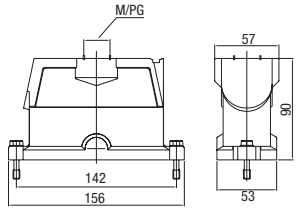


All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

## 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

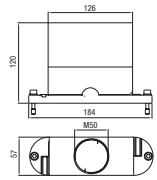
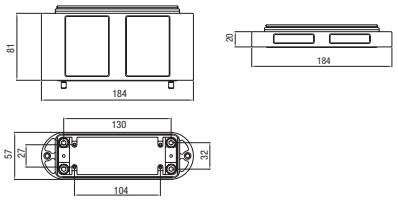
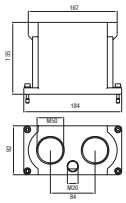
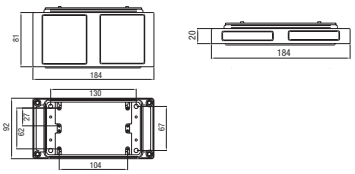
**Pressure-tight up to 5 bar** **IP 68 / IP 69 K**

| Description | | Metr. | PG | Type | Part Number |
|---|---|---|---|---|---|
| **Hood:** Side entry, Standard construction | | | | | |
| |  | M40 | 21<br>29 | **HIP**<br>HIP.24/64.STS.1.21.G<br>HIP.24/64.STS.1.29 G<br>HIP.24/64.STS.1.M40.G | 1-1102658-5<br>1-1102660-5<br>0-1106473-2 |
| | | M40 | 29 | **HIP-K**<br>HIP-K.24/64.STS.1.29.G<br>HIP-K.24/64.STS.1.M40.G | 2-1102660-5<br>0-1106473-4 |
| | | M25<br>M32<br>M40 | 29 | **EMV-K**<br>EMV-K.24/64.STS.1.29.G<br>EMV-K.24/64.STS.1.M25.G<br>EMV-K.24/64.STS.1.M32.G<br>EMV-K.24/64.STS.1.M40.G | 4-1102755-5<br>0-1102983-1<br>0-1106461-8<br>0-1106461-3 |
| |  | M40 | 29<br>36 | **HIP**<br>HIP-KF.24/64.STS.1.29.G<br>HIP-KF.24/64.STS.1.36.G<br>HIP-KF.24/64.STS.1.M40.G | 1-1102622-5<br>1-1102623-5<br>0-1106474-1 |
| | | M40 | 29<br>36 | **HIP-K**<br>HIP-KF/K.24/64.STS.1.29.G<br>HIP-KF/K. 24/64.STS.1.36G<br>HIP-KF/K.24/64.STS.1.M40.G | 2-1102622-5<br>2-1102623-5<br>0-1106474-2 |
| | | M40 | 29<br>36 | **EMV-K**<br>EMV-KF/K.24/64.STS.1.29.G<br>EMV-KF/K.24/64.STS.1.36.G<br>EMV-KF/K.24/64.STS.1.M40.G | 4-1102732-5<br>4-1102733-5<br>0-1106462-2 |
| **Hood:** Top entry, Standard construction | | | | | |
| |  | M40 | 21<br>29 | **HIP**<br>HIP.24/64.STO.1.21.G<br>HIP.24/64.STO.1.29.G<br>HIP.24/64.STO.1.M40.G | 1-1102662-5<br>1-1102664-5<br>0-1106473-1 |
| | | 2xM32<br>M40 | 29 | **HIP-K**<br>HIP-K.24/64.STO.1.29.G<br>HIP-K.24/64.STO.2.M32.G<br>HIP-K.24/64.STO.1.M40.G | 2-1102664-5<br>0-1102792-1<br>0-1106473-3 |
| | | M40<br>2xM40 | 29 | **EMV-K**<br>EMV-K.24/64.STO.1.29.G<br>EMV-K.24/64.STO.1.M40.G | 4-1102759-5<br>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<br>1xM50<br>2xM40<br>2xM40 | | HF-HIP-K.8.Sto.1.M50G<br>HF.8.EMV-K.8.Sto.1.M50G<br>HF.HIP-K.8.Sto.2.M40G<br>HF.EMV-K.8.Sto.2.M40G | 0-1102839-4<br>0-1102839-3<br>0-1102839-2<br>0-1102839-1 |
| Housing bottom | | | | | |
| |  | Height | | | |
| | | 81 mm<br>81 mm | 20 mm<br>20 mm | HF-HIP-K.8.AG.N<br>HF-EMV-K.8.AG.N<br>HF-HIP-K.8.AG<br>HF-EMV-K.8.AG | 0-1102837-2<br>0-1102837-1<br>0-1102836-2<br>0-1102836-1 |
| Hood | | | | | |
| |  | 2xM40<br>2xM40<br>2xM50<br>2xM50 | | HF-HIP-K.12.Sto.2.M40G<br>HF-EMV-K.12.Sto.2.M40G<br>HF-HIP-K.12.Sto.2.M50G<br>HF-EMV-K.12.Sto.2.M50G | 0-1102840-2<br>0-1102840-1<br>0-1102840-4<br>0-1102840-3 |
| Housing bottom | | | | | |
| |  | Height | | | |
| | | 81 mm<br>81 mm | 20 mm<br>20 mm | HF-HIP-K.12.AG.N<br>HF-EMV-K.12.AG.N<br>HF-HIP-K.12.AG<br>HF-EMVK-K.12.AG | 0-1102838-2<br>0-1102838-1<br>0-1102192-2<br>0-1102192-1 |



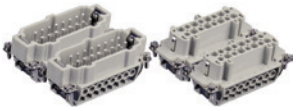
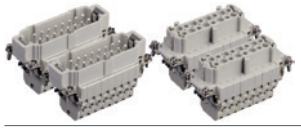
All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

## HE-032 inserts

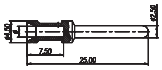
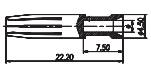
INSERTS FOR H32B HOOD/HOUSING

500V MAX. 16A

32 (2x16)+⏚

| Dimension (mm) | Type | Part Number | |
|---|---|---|---|
| | | Male insert | Female insert |
| Screw terminal | | | |
|  | HE-016-M(1-16)<br>HE-016-M(17-32) | T2040162101-000<br>T2040322101-000 | |
| | HE-016-F(1-16)<br>HE-016-F(17-32) | | T2040162201-000<br>T2040322201-000 |
| Spring terminal | | | |
| | HE-016-MS(1-16)<br>HE-016-MS(17-32) | T2040163101-000<br>T2040323101-000 | |
| | HE-016-FS(1-16)<br>HE-016-FS(17-32) | | T2040163201-000<br>T2040323201-000 |
| Crimp terminal (Order crimp contacts separately) | | | |
| | HE-016-MC(1-16)<br>HE-016-MC(17-32) | T2040164101-000<br>T2040324101-000 | |
| | HE-016-FC(1-16)<br>HE-016-FC(17-32) | | T2040164201-000<br>T2040324201-000 |
| Spring terminal (Two terminals per contact) | | | |
|  | HE-016-MSS(1-16)<br>HE-016-MSS(17-32) | T2040165101-000<br>T2040325101-000 | |
| | HE-016-FSS(1-16)<br>HE-016-FSS(17-32) | | T2040165201-000<br>T2040325201-000 |

### 16A Contact

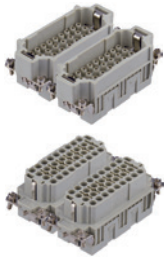
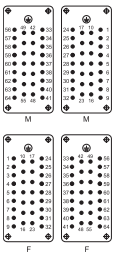
| Tech data<br>**Material:**<br>copper alloy<br>**Contact resistance:** ≤1mΩ<br>**Terminal:**<br>crimp connection<br>**CEM/Male**<br> | 16A Male crimp contacts<br>  | Wire gauge | | Stripping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|---|---|---|---|---|---|---|
| | | mm² | AWG | mm | Type | Part Number | Type | Part Number |
| | | 0.14-0.37 | 26-22 | 7.5 | CEM-0.3 | T2030001002-000 | DEM-0.3 | T2030011002-000 |
| | | 0.5 | 20 | 7.5 | CEM-0.5 | T2030001005-000 | DEM-0.5 | T2030011005-000 |
| | | 0.75 | 18 | 7.5 | CEM-0.75 | T2030001008-000 | DEM-0.75 | T2030011008-000 |
| | | 1.0 | 18 | 7.5 | CEM-1.0 | T2030001010-000 | DEM-1.0 | T2030011010-000 |
| | | 1.5 | 16 | 7.5 | CEM-1.5 | T2030001015-000 | DEM-1.5 | T2030011015-000 |
| | | 2.5 | 14 | 7.5 | CEM-2.5 | T2030001025-000 | DEM-2.5 | T2030011025-000 |
| | | 4.0 | 12 | 7.5 | CEM-4.0 | T2030001040-000 | DEM-4.0 | T2030011040-000 |
| **CEF/Female**<br> | 16A Female crimp contacts<br>  | 0.14-0.37 | 26-22 | 7.5 | CEF-0.3 | T2030002002-000 | DEF-0.3 | T2030012002-000 |
| | | 0.5 | 20 | 7.5 | CEF-0.5 | T2030002005-000 | DEF-0.5 | T2030012005-000 |
| | | 0.75 | 18 | 7.5 | CEF-0.75 | T2030002008-000 | DEF-0.75 | T2030012008-000 |
| | | 1.0 | 18 | 7.5 | CEF-1.0 | T2030002010-000 | DEF-1.0 | T2030012010-000 |
| | | 1.5 | 16 | 7.5 | CEF-1.5 | T2030002015-000 | DEF-1.5 | T2030012015-000 |
| | | 2.5 | 14 | 7.5 | CEF-2.5 | T2030002025-000 | DEF-2.5 | T2030012025-000 |
| | | 4.0 | 12 | 7.5 | CEF-4.0 | T2030002040-000 | DEF-4.0 | T2030012040-000 |

## HEE-064 inserts

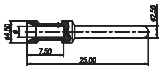
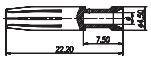
INSERTS FOR H32B HOOD/HOUSING

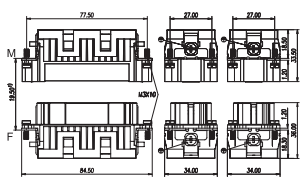
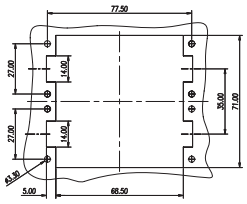
500V MAX. 16A

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)<br>HEE-032-M(33-64) | T2050322101-000<br>T2050642101-000 | |
| | | HEE-032-F(1-32)<br>HEE-032-F(33-64) | | T2050322201-000<br>T2050642201-000 |

### 16A Contact

| Tech data<br>**Material:**<br>copper alloy<br>**Contact resistance:** ≤1mΩ<br>**Terminal:**<br>crimp connection | 16A Male crimp contacts | Wire gauge | | Stripping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|---|---|---|---|---|---|---|
| | | mm² | AWG | mm | Type | Part Number | Type | Part Number |
| **CEM/Male**<br> |  | 0.14-0.37 | 26-22 | 7.5 | CEM-0.3 | T2030001002-000 | DEM-0.3 | T2030011002-000 |
| | | 0.5 | 20 | 7.5 | CEM-0.5 | T2030001005-000 | DEM-0.5 | T2030011005-000 |
| | | 0.75 | 18 | 7.5 | CEM-0.75 | T2030001008-000 | DEM-0.75 | T2030011008-000 |
| | | 1.0 | 18 | 7.5 | CEM-1.0 | T2030001010-000 | DEM-1.0 | T2030011010-000 |
| | | 1.5 | 16 | 7.5 | CEM-1.5 | T2030001015-000 | DEM-1.5 | T2030011015-000 |
| | | 2.5 | 14 | 7.5 | CEM-2.5 | T2030001025-000 | DEM-2.5 | T2030011025-000 |
| | | 4.0 | 12 | 7.5 | CEM-4.0 | T2030001040-000 | DEM-4.0 | T2030011040-000 |
| **CEF/Female**<br> | 16A Female crimp contacts<br>  | 0.14-0.37 | 26-22 | 7.5 | CEF-0.3 | T2030002002-000 | DEF-0.3 | T2030012002-000 |
| | | 0.5 | 20 | 7.5 | CEF-0.5 | T2030002005-000 | DEF-0.5 | T2030012005-000 |
| | | 0.75 | 18 | 7.5 | CEF-0.75 | T2030002008-000 | DEF-0.75 | T2030012008-000 |
| | | 1.0 | 18 | 7.5 | CEF-1.0 | T2030002010-000 | DEF-1.0 | T2030012010-000 |
| | | 1.5 | 16 | 7.5 | CEF-1.5 | T2030002015-000 | DEF-1.5 | T2030012015-000 |
| | | 2.5 | 14 | 7.5 | CEF-2.5 | T2030002025-000 | DEF-2.5 | T2030012025-000 |
| | | 4.0 | 12 | 7.5 | CEF-4.0 | T2030002040-000 | DEF-4.0 | T2030012040-000 |

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



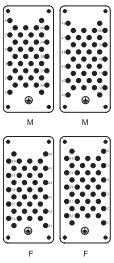
All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

## HEEE-080 inserts

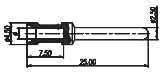
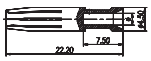
INSERTS FOR H32B HOOD/HOUSING

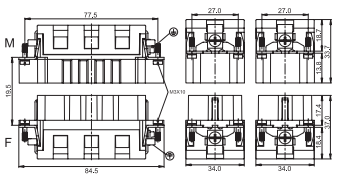
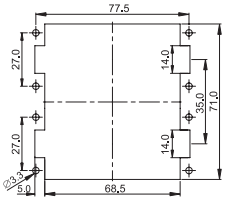
500V MAX. 16A

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)<br>HEEE-040-M(41-80) | T2050402101-000<br>T2050802101-000 | |
| | | HEEE-040-F(1-40)<br>HEEE-040-F(41-80) | | T2050402201-000<br>T2050802201-000 |

### 16A Contact

| Tech data<br>**Material:**<br>copper alloy<br>**Contact resistance:** ≤1mΩ<br>**Terminal:**<br>crimp connection<br>**CEM/Male**<br> | 16A Male crimp contacts<br>  | Wire gauge | | Stripping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|---|---|---|---|---|---|---|
| | | mm² | AWG | mm | Type | Part Number | Type | Part Number |
| | | 0.14-0.37 | 26-22 | 7.5 | CEM-0.3 | T2030001002-000 | DEM-0.3 | T2030011002-000 |
| | | 0.5 | 20 | 7.5 | CEM-0.5 | T2030001005-000 | DEM-0.5 | T2030011005-000 |
| | | 0.75 | 18 | 7.5 | CEM-0.75 | T2030001008-000 | DEM-0.75 | T2030011008-000 |
| | | 1.0 | 18 | 7.5 | CEM-1.0 | T2030001010-000 | DEM-1.0 | T2030011010-000 |
| | | 1.5 | 16 | 7.5 | CEM-1.5 | T2030001015-000 | DEM-1.5 | T2030011015-000 |
| | | 2.5 | 14 | 7.5 | CEM-2.5 | T2030001025-000 | DEM-2.5 | T2030011025-000 |
| | | 4.0 | 12 | 7.5 | CEM-4.0 | T2030001040-000 | DEM-4.0 | T2030011040-000 |
| **CEF/Female**<br> | **16A Female crimp contacts**<br>  | 0.14-0.37 | 26-22 | 7.5 | CEF-0.3 | T2030002002-000 | DEF-0.3 | T2030012002-000 |
| | | 0.5 | 20 | 7.5 | CEF-0.5 | T2030002005-000 | DEF-0.5 | T2030012005-000 |
| | | 0.75 | 18 | 7.5 | CEF-0.75 | T2030002008-000 | DEF-0.75 | T2030012008-000 |
| | | 1.0 | 18 | 7.5 | CEF-1.0 | T2030002010-000 | DEF-1.0 | T2030012010-000 |
| | | 1.5 | 16 | 7.5 | CEF-1.5 | T2030002015-000 | DEF-1.5 | T2030012015-000 |
| | | 2.5 | 14 | 7.5 | CEF-2.5 | T2030002025-000 | DEF-2.5 | T2030012025-000 |
| | | 4.0 | 12 | 7.5 | CEF-4.0 | T2030002040-000 | DEF-4.0 | T2030012040-000 |

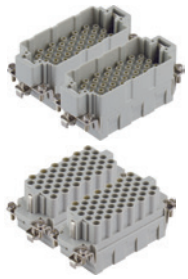
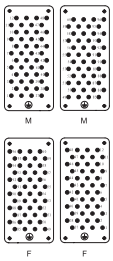
| Distance for contact max. 21mm | Panel cut-out for inserts for use without hoods/housings |
|---|---|
| Crimp terminal<br>  |  |

## HEEE-096 inserts

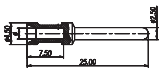
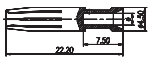
INSERTS FOR H32B HOOD/HOUSING

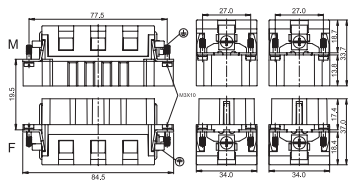
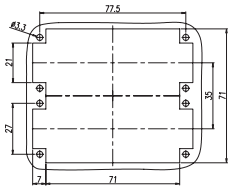
400V MAX. 16A

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)<br>HEEE-048-M(49-96) | T2050482101-000<br>T2050962101-000 | |
| | | HEEE-048-F(1-48)<br>HEEE-048-F(49-96) | | T2050482201-000<br>T2050962201-000 |

### 16A Contact

| Tech data | 16A Male crimp contacts | Wire gauge | | Stripping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|---|---|---|---|---|---|---|
| | | mm² | AWG | mm | Type | Part Number | Type | Part Number |
| **Material:** copper alloy<br>**Contact resistance:** ≤1mΩ<br>**Terminal:** crimp connection<br>**CEM/Male**<br> |  | 0.14-0.37 | 26-22 | 7.5 | CEM-0.3 | T2030001002-000 | DEM-0.3 | T2030011002-000 |
| | | 0.5 | 20 | 7.5 | CEM-0.5 | T2030001005-000 | DEM-0.5 | T2030011005-000 |
| | | 0.75 | 18 | 7.5 | CEM-0.75 | T2030001008-000 | DEM-0.75 | T2030011008-000 |
| | | 1.0 | 18 | 7.5 | CEM-1.0 | T2030001010-000 | DEM-1.0 | T2030011010-000 |
| | | 1.5 | 16 | 7.5 | CEM-1.5 | T2030001015-000 | DEM-1.5 | T2030011015-000 |
| | | 2.5 | 14 | 7.5 | CEM-2.5 | T2030001025-000 | DEM-2.5 | T2030011025-000 |
| | | 4.0 | 12 | 7.5 | CEM-4.0 | T2030001040-000 | DEM-4.0 | T2030011040-000 |
| **CEF/Female**<br> | **16A Female crimp contacts**<br>  | 0.14-0.37 | 26-22 | 7.5 | CEF-0.3 | T2030002002-000 | DEF-0.3 | T2030012002-000 |
| | | 0.5 | 20 | 7.5 | CEF-0.5 | T2030002005-000 | DEF-0.5 | T2030012005-000 |
| | | 0.75 | 18 | 7.5 | CEF-0.75 | T2030002008-000 | DEF-0.75 | T2030012008-000 |
| | | 1.0 | 18 | 7.5 | CEF-1.0 | T2030002010-000 | DEF-1.0 | T2030012010-000 |
| | | 1.5 | 16 | 7.5 | CEF-1.5 | T2030002015-000 | DEF-1.5 | T2030012015-000 |
| | | 2.5 | 14 | 7.5 | CEF-2.5 | T2030002025-000 | DEF-2.5 | T2030012025-000 |
| | | 4.0 | 12 | 7.5 | CEF-4.0 | T2030002040-000 | DEF-4.0 | T2030012040-000 |

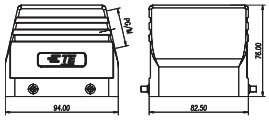
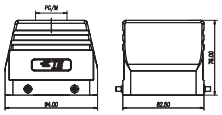
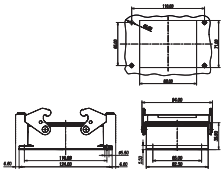
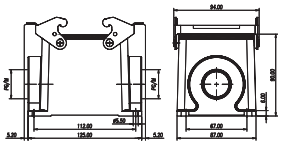
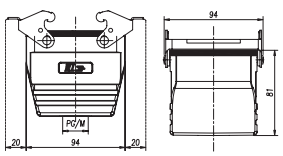
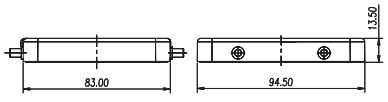
| Distance for contact max. 21mm | Panel cut-out for inserts for use without hoods/housings |
|---|---|
| Crimp terminal<br>  |  |



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

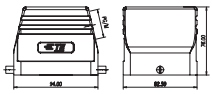
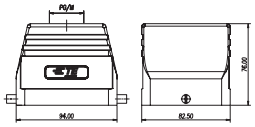
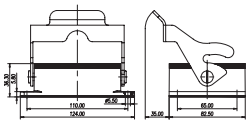
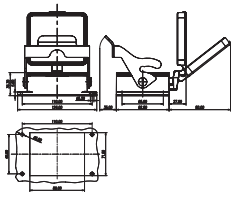
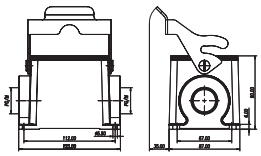
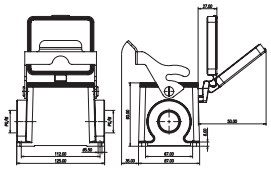
## H32B with 2 levers on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | | Metr. | PG | Type | Part Number |
|---|---|---|---|---|---|
| Hood: Side entry | | | | | |
| |  | M32<br>M40 | PG29<br>PG36 | H32B-TS-PG29<br>H32B-TS-PG36<br>H32B-TS-M32<br>H32B-TS-M40 | T1210320129-000<br>T1210320136-000<br>T1210320132-000<br>T1210320140-000 |
| Hood: Top entry | | | | | |
| |  | M25<br>M32<br>M40<br>M50 | PG21<br>PG29<br>PG36<br>PG42 | H32B-TG-PG21<br>H32B-TG-PG29<br>H32B-TG-PG36<br>H32B-TG-PG42<br>H32B-TG-M25<br>H32B-TG-M32<br>H32B-TG-M40<br>H32B-TG-M50 | T1220320121-000<br>T1220320129-000<br>T1220320136-000<br>T1220320142-000<br>T1220320125-000<br>T1220320132-000<br>T1220320140-000<br>T1220320150-000 |
| Bulkhead mounted | | | | | |
| |  | | | H32B-AG | T1410322000-000 |
| Surface mounted: Side entry | | | | | |
| |  1 Side entry 2 Side entry | M32<br>M40<br>M50<br>M63<br><br><br><br>M32<br>M40<br>M50<br>M63 | PG29<br>PG36<br>PG42<br><br><br><br>PG29<br>PG36<br>PG42<br><br><br><br> | H32B-SGR-PG29<br>H32B-SGR-PG36<br>H32B-SGR-PG42<br>H32B-SGR-M32<br>H32B-SGR-M40<br>H32B-SGR-M50<br>H32B-SGR-M63<br>H32B-SGR-2PG29<br>H32B-SGR-2PG36<br>H32B-SGR-2PG42<br>H32B-SGR-2M32<br>H32B-SGR-2M40<br>H32B-SGR-2M50<br>H32B-SGR-2M63 | T1440322129-000<br>T1440322136-000<br>T1440322142-000<br>T1440322132-000<br>T1440322140-000<br>T1440322150-000<br>T1440322163-000<br>T1440322229-000<br>T1440322236-000<br>T1440322242-000<br>T1440322232-000<br>T1440322240-000<br>T1440322250-000<br>T1440322263-000 |
| Cable-to-cable hood | | | | | |
| |  | M32<br>M40<br>M50<br>M63 | PG29<br>PG36<br>PG42 | H32B-TBF-PG29<br>H32B-TBF-PG36<br>H32B-TBF-PG42<br>H32B-TBF-M32<br>H32B-TBF-M40<br>H32B-TBF-M50<br>H32B-TBF-M63 | T1710322129-000<br>T1710322136-000<br>T1710322142-000<br>T1710322132-000<br>T1710322140-000<br>T1710322150-000<br>T1710322163-000 |
| Protection covers for hoods | | | | | |
| |  | | | H32B-KDB | T1000321220-000 |

## H32B with 1 lever on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | | Metr. | PG | Type | Part Number |
|---|---|---|---|---|---|
| Hood: Side entry | | | | | |
| |  | M32<br>M40 | PG29<br>PG36 | H32B-TS-RO-PG29<br>H32B-TS-RO-PG36<br>H32B-TS-RO-M32<br>H32B-TS-RO-M40 | T1310320129-000<br>T1310320136-000<br>T1310320132-000<br>T1310320140-000 |
| Hood: Top entry | | | | | |
| |  | M25<br>M32<br>M40<br>M50 | PG21<br>PG29<br>PG36<br>PG42 | H32B-TG-RO-PG21<br>H32B-TG-RO-PG29<br>H32B-TG-RO-PG36<br>H32B-TG-RO-PG42<br>H32B-TG-RO-M25<br>H32B-TG-RO-M32<br>H32B-TG-RO-M40<br>H32B-TG-RO-M50 | T1320320121-000<br>T1320320129-000<br>T1320320136-000<br>T1320320142-000<br>T1320320125-000<br>T1320320132-000<br>T1320320140-000<br>T1320320150-000 |
| Bulkhead mounted | | | | | |
| |  | | | H32B-AG-LB | T1500322000-000 |
| | With protection cover<br>  | | | H32B-AD-LB | T1510322000-000 |
| Surface mounted: Side entry | | | | | |
| |  <br>1 Side entry<br>2 Side entry | M32<br>M40<br><br>M32<br>M40 | PG29<br><br><br>PG29<br> | H32B-SGR-LB-PG29<br>H32B-SGR-LB-M32<br>H32B-SGR-LB-M40<br>H32B-SGR-LB-2PG29<br>H32B-SGR-LB-2M32<br>H32B-SGR-LB-2M40 | T1610322129-000<br>T1610322132-000<br>T1610322140-000<br>T1610322229-000<br>T1610322232-000<br>T1610322240-000 |
| | With protection cover<br>  <br>1 Side entry<br>2 Side entry | M32<br>M40<br><br>M32<br>M40 | PG29<br><br><br>PG29<br> | H32B-SDR-LB-PG29<br>H32B-SDR-LB-M32<br>H32B-SDR-LB-M40<br>H32B-SDR-LB-2PG29<br>H32B-SDR-LB-2M32<br>H32B-SDR-LB-2M40 | T1620320129-000<br>T1620320132-000<br>T1620320140-000<br>T1620320229-000<br>T1620320232-000<br>T1620320240-000 |



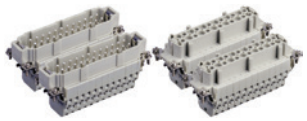
All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

# HE-048 inserts

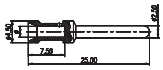
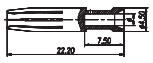
## INSERTS FOR H48B HOOD/HOUSING

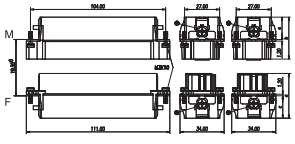
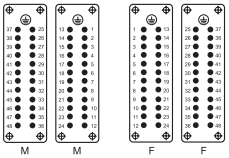
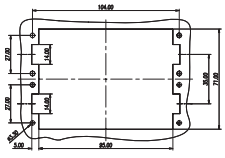
500V MAX. 16A

48 (2x24)+⏚

| Dimension (mm) | Type | Part Number | |
|---|---|---|---|
| | | Male insert | Female insert |
| Screw terminal | | | |
| | HE-024-M(1-24)<br>HE-024-M(25-48) | T2040242101-000<br>T2040482101-000 | |
| | HE-024-F(1-24)<br>HE-024-F(25-18) | | T2040242201-000<br>T2040482201-000 |
| Spring terminal | | | |
| | HE-024-MS(1-24)<br>HE-024-MS(25-48) | T2040243101-000<br>T2040483101-000 | |
| | HE-024-FS(1-24)<br>HE-024-FS(25-48) | | T2040243201-000<br>T2040483201-000 |
| Crimp terminal (Order crimp contacts separately) | | | |
| | HE-024-MC(1-24)<br>HE-024-MC(25-48) | T2040244101-000<br>T2040484101-000 | |
| | HE-024-FC(1-24)<br>HE-024-FC(25-48) | | T2040244201-000<br>T2040484201-000 |
| Spring terminal (Two terminals per contact) | | | |
|  | HE-024-MSS(1-24)<br>HE-024-MSS(25-48) | T2040245101-000<br>T2040485101-000 | |
| | HE-024-FSS(1-24)<br>HE-024-FSS(25-48) | | T2040245201-000<br>T2040485201-000 |

### 16A Contact

| Tech data | 16A Male crimp contacts | Wire gauge | | Strip-ping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|---|---|---|---|---|---|---|
| | | mm² | AWG | mm | Type | Part Number | Type | Part Number |
| **Material:** copper alloy<br>**Contact resistance:** ≤1mΩ<br>**Terminal:** crimp connection<br>**CEM/Male**<br> |  | 0.14-0.37 | 26-22 | 7.5 | CEM-0.3 | T2030001002-000 | DEM-0.3 | T2030011002-000 |
| | | 0.5 | 20 | 7.5 | CEM-0.5 | T2030001005-000 | DEM-0.5 | T2030011005-000 |
| | | 0.75 | 18 | 7.5 | CEM-0.75 | T2030001008-000 | DEM-0.75 | T2030011008-000 |
| | | 1.0 | 18 | 7.5 | CEM-1.0 | T2030001010-000 | DEM-1.0 | T2030011010-000 |
| | | 1.5 | 16 | 7.5 | CEM-1.5 | T2030001015-000 | DEM-1.5 | T2030011015-000 |
| | | 2.5 | 14 | 7.5 | CEM-2.5 | T2030001025-000 | DEM-2.5 | T2030011025-000 |
| | | 4.0 | 12 | 7.5 | CEM-4.0 | T2030001040-000 | DEM-4.0 | T2030011040-000 |
| **CEF/Female**<br> |  | 0.14-0.37 | 26-22 | 7.5 | CEF-0.3 | T2030002002-000 | DEF-0.3 | T2030012002-000 |
| | | 0.5 | 20 | 7.5 | CEF-0.5 | T2030002005-000 | DEF-0.5 | T2030012005-000 |
| | | 0.75 | 18 | 7.5 | CEF-0.75 | T2030002008-000 | DEF-0.75 | T2030012008-000 |
| | | 1.0 | 18 | 7.5 | CEF-1.0 | T2030002010-000 | DEF-1.0 | T2030012010-000 |
| | | 1.5 | 16 | 7.5 | CEF-1.5 | T2030002015-000 | DEF-1.5 | T2030012015-000 |
| | | 2.5 | 14 | 7.5 | CEF-2.5 | T2030002025-000 | DEF-2.5 | T2030012025-000 |
| | | 4.0 | 12 | 7.5 | CEF-4.0 | T2030002040-000 | DEF-4.0 | T2030012040-000 |

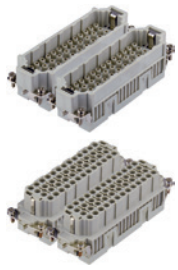
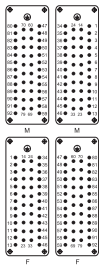
| Distance for contact max. 21mm | Contact arrangement view from termination side | Panel cut-out for inserts for use without hoods/housings |
|---|---|---|
|  |  |  |

## HEE-092 inserts

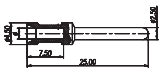
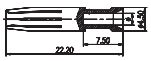
INSERTS FOR H48B HOOD/HOUSING

500V MAX. 16A

92 (2x46)+⏚

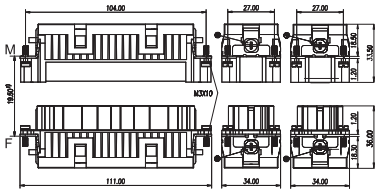
| Dimensions (mm) | | Type | Part Number | |
|---|---|---|---|---|
| | | | Male insert | Female insert |
| Crimp terminal (order crimp contacts separately) | Contact arrangement view from termination side | | | |
|  |  | HEE-046-M(1-46)<br>HEE-046-M(47-92) | T2050462101-000<br>T2050922101-000 | |
| | | HEE-046-F(1-46)<br>HEE-046-F(47-92) | | T2050462201-000<br>T2050922201-000 |

### 16A Contact

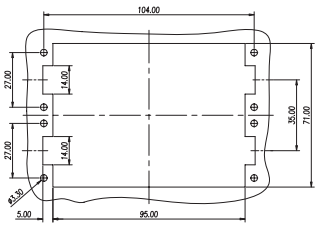
| Tech data<br>**Material:**<br>copper alloy<br>**Contact resistance:** ≤1mΩ<br>**Terminal:**<br>crimp connection | 16A Male crimp contacts | Wire gauge | | Strip-ping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|---|---|---|---|---|---|---|
| | | mm² | AWG | mm | Type | Part Number | Type | Part Number |
| **CEM/Male**<br> |  | 0.14-0.37 | 26-22 | 7.5 | CEM-0.3 | T2030001002-000 | DEM-0.3 | T2030011002-000 |
| | | 0.5 | 20 | 7.5 | CEM-0.5 | T2030001005-000 | DEM-0.5 | T2030011005-000 |
| | | 0.75 | 18 | 7.5 | CEM-0.75 | T2030001008-000 | DEM-0.75 | T2030011008-000 |
| | | 1.0 | 18 | 7.5 | CEM-1.0 | T2030001010-000 | DEM-1.0 | T2030011010-000 |
| | | 1.5 | 16 | 7.5 | CEM-1.5 | T2030001015-000 | DEM-1.5 | T2030011015-000 |
| | | 2.5 | 14 | 7.5 | CEM-2.5 | T2030001025-000 | DEM-2.5 | T2030011025-000 |
| | | 4.0 | 12 | 7.5 | CEM-4.0 | T2030001040-000 | DEM-4.0 | T2030011040-000 |
| **CEF/Female**<br> | 16A Female crimp contacts<br>  | 0.14-0.37 | 26-22 | 7.5 | CEF-0.3 | T2030002002-000 | DEF-0.3 | T2030012002-000 |
| | | 0.5 | 20 | 7.5 | CEF-0.5 | T2030002005-000 | DEF-0.5 | T2030012005-000 |
| | | 0.75 | 18 | 7.5 | CEF-0.75 | T2030002008-000 | DEF-0.75 | T2030012008-000 |
| | | 1.0 | 18 | 7.5 | CEF-1.0 | T2030002010-000 | DEF-1.0 | T2030012010-000 |
| | | 1.5 | 16 | 7.5 | CEF-1.5 | T2030002015-000 | DEF-1.5 | T2030012015-000 |
| | | 2.5 | 14 | 7.5 | CEF-2.5 | T2030002025-000 | DEF-2.5 | T2030012025-000 |
| | | 4.0 | 12 | 7.5 | CEF-4.0 | T2030002040-000 | DEF-4.0 | T2030012040-000 |

**Distance for contact max. 21mm**

Crimp terminal




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





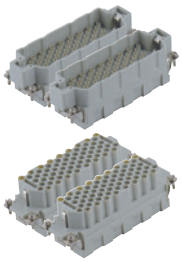
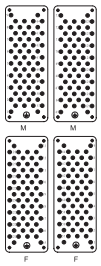

All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

# HEEE-128 inserts

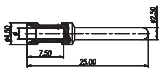
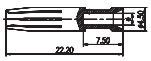
INSERTS FOR H48B HOOD/HOUSING

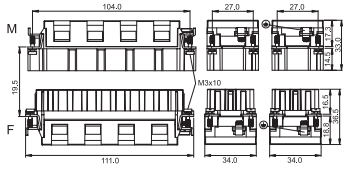
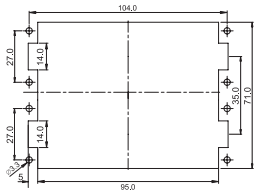
500V MAX. 16A

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)<br>HEEE-128-M(65-128) | T2050643101-000<br>T2051283101-000 | |
| | | HEEE-064-F(1-64)<br>HEEE-128-F(65-128) | | T2050643201-000<br>T2051283201-000 |

## 16A Contact

| Tech data<br>**Material:**<br>copper alloy<br>**Contact resistance:** ≤1mΩ<br>**Terminal:**<br>crimp connection<br>**CEM/Male**<br> | 16A Male crimp contacts<br>  | Wire gauge | | Stripping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|---|---|---|---|---|---|---|
| | | mm² | AWG | mm | Type | Part Number | Type | Part Number |
| | | 0.14-0.37 | 26-22 | 7.5 | CEM-0.3 | T2030001002-000 | DEM-0.3 | T2030011002-000 |
| | | 0.5 | 20 | 7.5 | CEM-0.5 | T2030001005-000 | DEM-0.5 | T2030011005-000 |
| | | 0.75 | 18 | 7.5 | CEM-0.75 | T2030001008-000 | DEM-0.75 | T2030011008-000 |
| | | 1.0 | 18 | 7.5 | CEM-1.0 | T2030001010-000 | DEM-1.0 | T2030011010-000 |
| | | 1.5 | 16 | 7.5 | CEM-1.5 | T2030001015-000 | DEM-1.5 | T2030011015-000 |
| | | 2.5 | 14 | 7.5 | CEM-2.5 | T2030001025-000 | DEM-2.5 | T2030011025-000 |
| | | 4.0 | 12 | 7.5 | CEM-4.0 | T2030001040-000 | DEM-4.0 | T2030011040-000 |
| **CEF/Female**<br> | 16A Female crimp contacts<br>  | 0.14-0.37 | 26-22 | 7.5 | CEF-0.3 | T2030002002-000 | DEF-0.3 | T2030012002-000 |
| | | 0.5 | 20 | 7.5 | CEF-0.5 | T2030002005-000 | DEF-0.5 | T2030012005-000 |
| | | 0.75 | 18 | 7.5 | CEF-0.75 | T2030002008-000 | DEF-0.75 | T2030012008-000 |
| | | 1.0 | 18 | 7.5 | CEF-1.0 | T2030002010-000 | DEF-1.0 | T2030012010-000 |
| | | 1.5 | 16 | 7.5 | CEF-1.5 | T2030002015-000 | DEF-1.5 | T2030012015-000 |
| | | 2.5 | 14 | 7.5 | CEF-2.5 | T2030002025-000 | DEF-2.5 | T2030012025-000 |
| | | 4.0 | 12 | 7.5 | CEF-4.0 | T2030002040-000 | DEF-4.0 | T2030012040-000 |

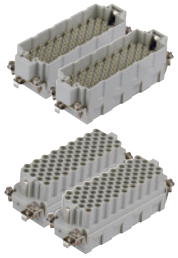
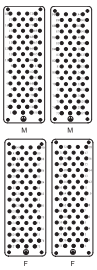
| Distance for contact max. 21mm | Panel cut-out for inserts for use without hoods/housings |
|---|---|
| Crimp terminal<br>  |  |

## HEEE-144 inserts

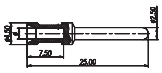
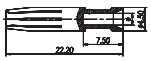
INSERTS FOR H48B HOOD/HOUSING

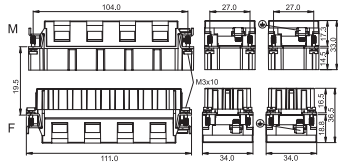
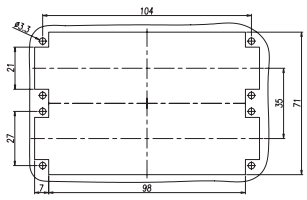
400V MAX. 16A

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)<br>HEEE-144-M(73-144) | T2050722101-000<br>T2051442101-000 | |
| | | HEEE-072-F(1-72)<br>HEEE-144-F(73-144) | | T2050722201-000<br>T2051442201-000 |

### 16A Contact

| Tech data<br>**Material:**<br>copper alloy<br>**Contact resistance:** ≤1mΩ<br>**Terminal:**<br>crimp connection<br>**CEM/Male**<br> | 16A Male crimp contacts<br>  | Wire gauge | | Stripping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|---|---|---|---|---|---|---|
| | | mm² | AWG | mm | Type | Part Number | Type | Part Number |
| | | 0.14-0.37 | 26-22 | 7.5 | CEM-0.3 | T2030001002-000 | DEM-0.3 | T2030011002-000 |
| | | 0.5 | 20 | 7.5 | CEM-0.5 | T2030001005-000 | DEM-0.5 | T2030011005-000 |
| | | 0.75 | 18 | 7.5 | CEM-0.75 | T2030001008-000 | DEM-0.75 | T2030011008-000 |
| | | 1.0 | 18 | 7.5 | CEM-1.0 | T2030001010-000 | DEM-1.0 | T2030011010-000 |
| | | 1.5 | 16 | 7.5 | CEM-1.5 | T2030001015-000 | DEM-1.5 | T2030011015-000 |
| | | 2.5 | 14 | 7.5 | CEM-2.5 | T2030001025-000 | DEM-2.5 | T2030011025-000 |
| | | 4.0 | 12 | 7.5 | CEM-4.0 | T2030001040-000 | DEM-4.0 | T2030011040-000 |
| **CEF/Female**<br> | 16A Female crimp contacts<br>  | 0.14-0.37 | 26-22 | 7.5 | CEF-0.3 | T2030002002-000 | DEF-0.3 | T2030012002-000 |
| | | 0.5 | 20 | 7.5 | CEF-0.5 | T2030002005-000 | DEF-0.5 | T2030012005-000 |
| | | 0.75 | 18 | 7.5 | CEF-0.75 | T2030002008-000 | DEF-0.75 | T2030012008-000 |
| | | 1.0 | 18 | 7.5 | CEF-1.0 | T2030002010-000 | DEF-1.0 | T2030012010-000 |
| | | 1.5 | 16 | 7.5 | CEF-1.5 | T2030002015-000 | DEF-1.5 | T2030012015-000 |
| | | 2.5 | 14 | 7.5 | CEF-2.5 | T2030002025-000 | DEF-2.5 | T2030012025-000 |
| | | 4.0 | 12 | 7.5 | CEF-4.0 | T2030002040-000 | DEF-4.0 | T2030012040-000 |

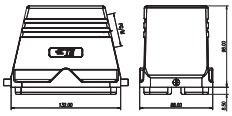
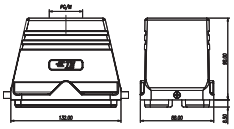
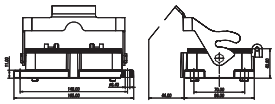
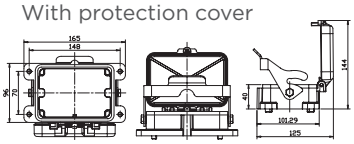
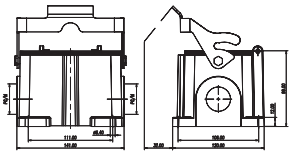
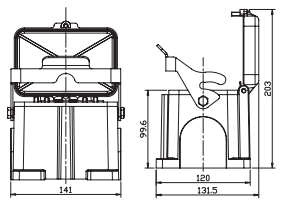
| Distance for contact max. 21mm | Panel cut-out for inserts for use without hoods/housings |
|---|---|
| Crimp terminal<br>  |  |



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

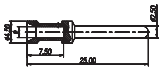
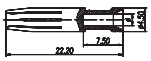
## H48B hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | | Metr. | PG | Type | Part Number |
|---|---|---|---|---|---|
| Hood: Side entry | | | | | |
| |  | M32<br>M40<br>M50<br>M63 | PG29<br>PG36<br>PG42 | H48B-TS-PG29<br>H48B-TS-PG36<br>H4SB-TS-PG42<br>H48B-TS-M32<br>H48B-TS-M40<br>H48B-TS-M50<br>H48B-TS-M63 | T1310480129-000<br>T1310480136-000<br>T1310480142-000<br>T1310480132-000<br>T1310480140-000<br>T1310480150-000<br>T1310480163-000 |
| Hood: Top entry | | | | | |
| |  | M32<br>M40<br>M50<br>M63 | PG29<br>PG36<br>PG42 | H48B-TG-PG29<br>H48B-TG-PG36<br>H48B-TG-PG42<br>H48B-TG-M32<br>H48B-TG-M40<br>H48B-TG-M50<br>H48B-TG-M63 | T1320480129-000<br>T1320480136-000<br>T1320480142-000<br>T1320480132-000<br>T1320480140-000<br>T1320480150-000<br>T1320480163-000 |
| Bulkhead mounted | | | | | |
| |  | | | H48B-AG | T1500482000-000 |
| | With protection cover<br>  | | | H48B-AD-LB | T1510482000-000 |
| Surface mounted: Side entry | | | | | |
| |  | M32<br>M40<br>M50<br><br><br><br>M32<br>M40<br>M50 | PG29<br>PG36<br>PG42<br><br><br>PG29<br>PG36<br>PG42 | H48B-SGR-PG29<br>H48B-SGR-PG36<br>H48B-SGR-PG42<br>H48B-SGR-M32<br>H48B-SGR-M40<br>H48B-SGR-M50<br>H48B-SGR-2PG29<br>H48B-SGR-2PG36<br>H48B-SGR-2PG42<br>H48B-SGR-2M32<br>H48B-SGR-2M40<br>H48B-SGR-2M50 | T1610482129-000<br>T1610482136-000<br>T1610482142-000<br>T1610482132-000<br>T1610482140-000<br>T1610482150-000<br>T1610482229-000<br>T1610482236-000<br>T1610482242-000<br>T1610482232-000<br>T1610482240-000<br>T1610482250-000 |
| Surface mounted with cover | | | | | |
| |  | M32<br>M40<br>M50<br><br><br><br>M32<br>M40<br>M50 | PG29<br>PG36<br>PG42<br><br><br>PG29<br>PG36<br>PG42 | H48B-SDR-PG29<br>H48B-SDR-PG36<br>H48B-SDR-PG42<br>H48B-SDR-M32<br>H48B-SDR-M40<br>H48B-SDR-M50<br>H48B-SDR-2PG29<br>H48B-SDR-2PG36<br>H48B-SDR-2PG42<br>H48B-SDR-2M32<br>H48B-SDR-2M40<br>H48B-SDR-2M50 | T1620480129-000<br>T1620480136-000<br>T1620480142-000<br>T1620480132-000<br>T1620480140-000<br>T1620480150-000<br>T1620480229-000<br>T1620480236-000<br>T1620480242-000<br>T1620480232-000<br>T1620480240-000<br>T1620480250-000 |

## Crimp contacts HE/HA series

### 16A Contact

| Tech data<br>**Material:**<br>copper alloy<br>**Contact resistance:** ≤1mΩ<br>**Terminal:**<br>crimp connection<br>**CEM/Male**<br> | 16A Male crimp contacts<br>  | Wire gauge | | Stripping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|---|---|---|---|---|---|---|
| | | mm² | AWG | mm | Type | Part Number | Type | Part Number |
| | | 0.14-0.37 | 26-22 | 7.5 | CEM-0.3 | T2030001002-000 | DEM-0.3 | T2030011002-000 |
| | | 0.5 | 20 | 7.5 | CEM-0.5 | T2030001005-000 | DEM-0.5 | T2030011005-000 |
| | | 0.75 | 18 | 7.5 | CEM-0.75 | T2030001008-000 | DEM-0.75 | T2030011008-000 |
| | | 1.0 | 18 | 7.5 | CEM-1.0 | T2030001010-000 | DEM-1.0 | T2030011010-000 |
| | | 1.5 | 16 | 7.5 | CEM-1.5 | T2030001015-000 | DEM-1.5 | T2030011015-000 |
| | | 2.5 | 14 | 7.5 | CEM-2.5 | T2030001025-000 | DEM-2.5 | T2030011025-000 |
| | | 4.0 | 12 | 7.5 | CEM-4.0 | T2030001040-000 | DEM-4.0 | T2030011040-000 |
| **CEF/Female**<br> | 16A Female crimp contacts<br>  | 0.14-0.37 | 26-22 | 7.5 | CEF-0.3 | T2030002002-000 | DEF-0.3 | T2030012002-000 |
| | | 0.5 | 20 | 7.5 | CEF-0.5 | T2030002005-000 | DEF-0.5 | T2030012005-000 |
| | | 0.75 | 18 | 7.5 | CEF-0.75 | T2030002008-000 | DEF-0.75 | T2030012008-000 |
| | | 1.0 | 18 | 7.5 | CEF-1.0 | T2030002010-000 | DEF-1.0 | T2030012010-000 |
| | | 1.5 | 16 | 7.5 | CEF-1.5 | T2030002015-000 | DEF-1.5 | T2030012015-000 |
| | | 2.5 | 14 | 7.5 | CEF-2.5 | T2030002025-000 | DEF-2.5 | T2030012025-000 |
| | | 4.0 | 12 | 7.5 | CEF-4.0 | T2030002040-000 | DEF-4.0 | T2030012040-000 |

## Crimping tools HE/HA series

| Description | | Type | Part Number |
|---|---|---|---|
| **Crimp tool**<br>Wire range: 0.5-4.0mm²<br>Suitable for CDM/CDF and CEM/CEF contacts | | CRIMPBOX-0.5/4 | T3100000001-000 |
| **Crimp tool**<br>Wire range: 0.14-4.0mm²<br>Suitable for CDM/CDF and CEM/CEF contacts with locator and die | | RSZ.HE-HN.D-HVT | 1-1105851-8 |
| **Removal tools**<br>Used for CEM/CEF contact series | | REMOV-HEE | T3100000002-000 |
| **M3 screw driver**<br>Used for HA/HE inserts | | SCREWD-M3 | T3100000009-000 |



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

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

## CONTACTS

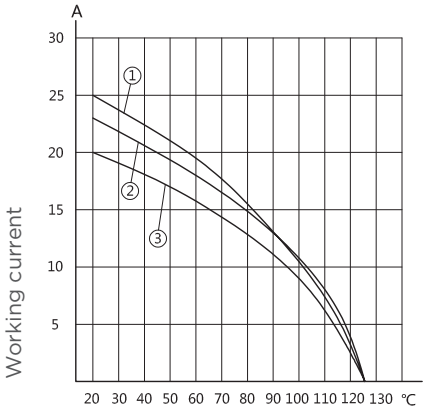
Material ..... Copper alloy
Surface ..... Hard silver-plated
.....Hard gold-plated
Contact resistance ..... ≤5mΩ
Terminal ..... Screw terminal
..... Crimp terminal
.....Spring terminal
- $mm^2$
Screw terminal ..... 0.5-2.5$mm^2$
Crimp terminal ..... 0.14-4$mm^2$
Spring terminal ..... 0.5-2.5$mm^2$
-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

## HOODS, HOUSINGS

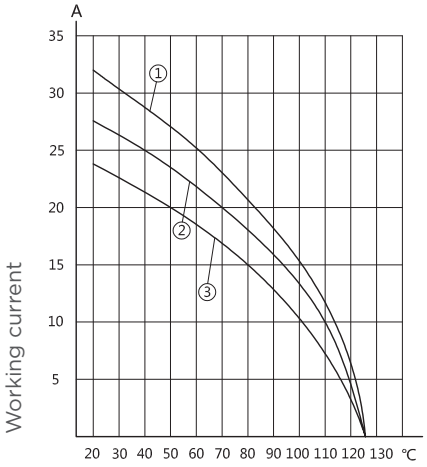
Material .....Die cast aluminium
Surface .....Powder-coated (RAL 7037)
Locking element.....Stainless steel, steel-zinc plated
Temperature range ..... -40°C... +125°C
Degree of protection acc. to DIN40 050 .....IP65

## 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



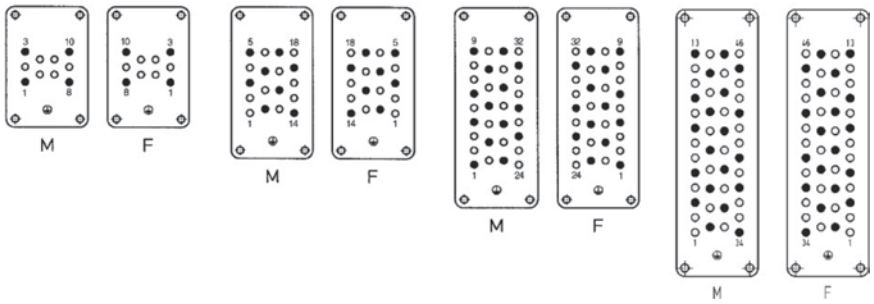
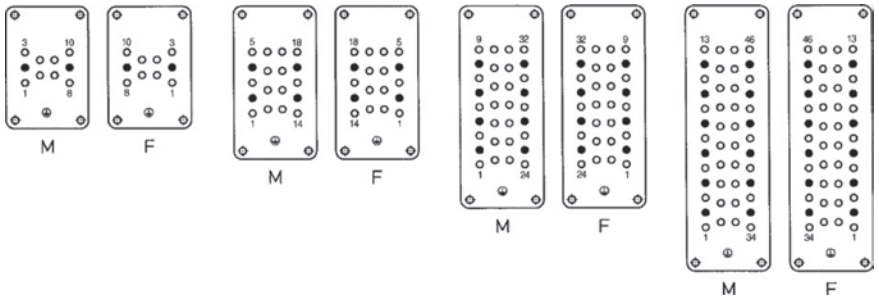

Ambient temperature

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+ ⏚ | 8+ ⏚ | 14+ ⏚ | 20+ ⏚ |
| **Series HEE<br>690V~<br>Insulation group C** |  | | | |
| | 2+ ⏚ | 4+ ⏚ | 8+ ⏚ | 12+ ⏚ |
| **1000V~<br>Insulation group C** |  | | | |
| | Working contact | Without contact | Male insert | Female insert |

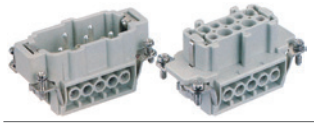
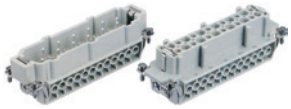


All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

## HVE series

INSERTS FOR H10B, H16B, H24B HOOD/HOUSING

830V MAX. 16A

| Dimension (mm) | Type | Part Number | |
|---|---|---|---|
| | | Male insert | Female insert |
| 3+ ⏚ +2<br>Screw terminal | | | |
|  | HVE-003-M | T2300033101-000 | |
| | HVE-003-F | | T2300033201-000 |
| 6+ ⏚ +2<br>Screw terminal | | | |
| | HVE-006-M | T2300063101-000 | |
| | HVE-006-F | | T2300063201-000 |
| 10+ ⏚ +2<br>Screw terminal | | | |
|  | HVE-010-M | T2300103101-000 | |
| | HVE-010-F | | T2300103201-000 |

## 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



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

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

## CONTACTS

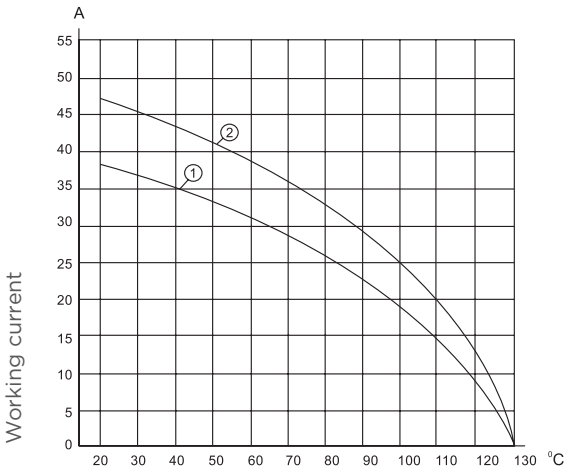
Material ..... Copper alloy
Surface ..... Hard silver-plated
Contact resistance ..... ≤1mΩ
Terminal ..... Screw terminal
- mm² ..... 1.5-6mm²
- AWG ..... 16-10
- Tightening/test torque ..... 1.2 Nm

## 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.



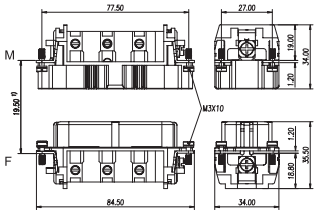
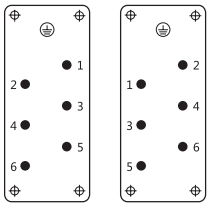
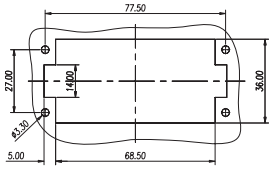

1 Wire gauge: 4.0mm²
2 Wire gauge: 6.0mm²

## HSB-006 inserts

INSERTS FOR H16B HOOD/HOUSING

690V 35A

6+ ⏚

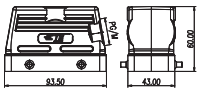
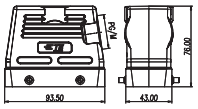
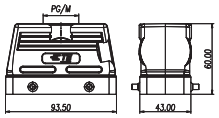
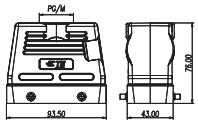
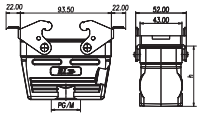
| Dimensions (mm) | | Type | Part Number | |
|---|---|---|---|---|
| | | | Male insert | Female insert |
| Crimp terminal (order crimp contacts separately) | | | | |
| |  | HSB-006-M | T2060062101-000 | |
| | | HSB-006-F | | T2060062201-000 |
| Contact arrangement view from termination side | Panel cut out for inserts for use without hoods/housings | | | |
|  |  | | | |



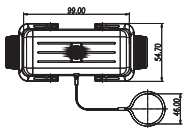
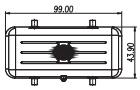
All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

## H16B with 2 levers on the hoods/housings

POWDER-COATED, RAL 7037

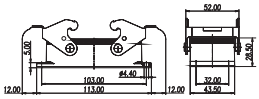
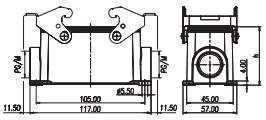
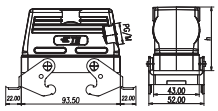
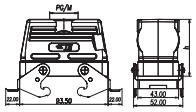
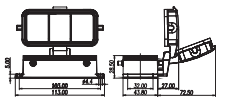
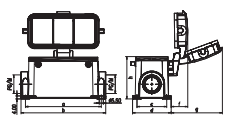
| Dimensions (mm) | | Metr. | PG | Type | Part Number |
|---|---|---|---|---|---|
| Hood: Side entry | | | | | |
| | Low construction  | M20<br>M25<br>M32 | PG16<br>PG21 | H16B-TS-PG16<br>H16B-TS-PG21<br>H16B-TS-M20<br>H16B-TS-M25<br>H16B-TS-M32 | T1210160116-000<br>T1210160121-000<br>T1210160120-000<br>T1210160125-000<br>T1210160132-000 |
| | High construction  | M25<br>M32<br>M40 | PG21<br>PG29 | H16B-TSH-PG21<br>H16B-TSH-PG29<br>H16B-TSH-M25<br>H16B-TSH-M32<br>H16B-TSH-M40 | T1230160121-000<br>T1230160129-000<br>T1230060125-000<br>T1230160132-000<br>T1230160140-000 |
| Hood: Top entry | | | | | |
| | Low construction  | M25<br>M32 | PG16<br>PG21 | H16B-TG-PG16<br>H16B-TG-PG21<br>H16B-TG-M25<br>H16B-TG-M32 | T1220160116-000<br>T1220160121-000<br>T1220160125-000<br>T1220160132-000 |
| | High construction  | M25<br>M32<br>M40 | PG21<br>PG29 | H16B-TGH-PG21<br>H16B-TGH-PG29<br>H16B-TGH-M25<br>H16B-TGH-M32<br>H16B-TGH-M40 | T1240160121-000<br>T1240160129-000<br>T1240160125-000<br>T1240160132-000<br>T1240160140-000 |
| Cable-to-cable hood | | | | | |
| |  Low construction High construction | M25<br>M32<br><br>M25<br>M32<br>M40 | PG21<br><br>PG21<br>PG29 | H16B-TBFS-PG21<br>H16B-TBFS-M25<br>H16B-TBFS-M32<br>H16B-TBFHS-PG21<br>H16B-TBFHS-PG29<br>H16B-TBFHS-M25<br>H16B-TBFHS-M32<br>H16B-TBFHS-M40 | T1710161121-000<br>T1710161125-000<br>T1710161132-000<br>T1750161121-000<br>T1750161129-000<br>T1750161125-000<br>T1750161132-000<br>T1750161140-000 |

| Construction | H |
|---|---|
| Low | 62.5 |
| Hight | 74.5 |

| Protection covers for hoods | | | | | |
|---|---|---|---|---|---|
| |  | | | H16B-KDTP | T1010161400-000 |
| Housing protection cover | | | | | |
| |  | | | H16B-KDBP | T1010162100-000 |

## H16B with 2 levers on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | Metr. | PG | Type | Part Number |
|---|---|---|---|---|
| **Bulkhead mounted** | | | | |
|  | | | H16B-AGS | T1410161000-000 |
| **Surface mounted: Side entry** | | | | |
|  1 Side entry Low construction 2 Side entry 1 Side entry High construction 2 Side entry | M25<br>M25<br>M25<br>M32<br>M25<br>M32 | PG21<br>PG21<br>PG21<br>PG29<br>PG21<br>PG29 | H16B-SGRS-PG21<br>H16B-SGRS-M25<br>H16B-SGRS-2PG21<br>H16B-SGRS-2M25<br>H16B-SGRHS-PG21<br>H16B-SGRHS-PG29<br>H16B-SGRHS-M25<br>H16B-SGRHS-M32<br>H16B-SGRHS-2PG21<br>H16B-SGRHS-2PG29<br>H16B-SGRHS-2M25<br>H16B-SGRHS-2M32 | T1440161121-000<br>T1440161125-000<br>T1440161221-000<br>T1440161225-000<br>T1470161121-000<br>T1470161129-000<br>T1470161125-000<br>T1470161132-000<br>T1470161221-000<br>T1470161229-000<br>T1470161225-000<br>T1470161232-000 |
| Construction: H<br>Low: 56<br>Hight: 81 | | | | |
| **Side entry housing with two levers** | | | | |
|  Low construction High construction | M20<br>M25<br>M25<br>M32 | PG16<br>PG21<br>PG21<br>PG29 | H16B-TSBS-PG16<br>H16B-TSBS-PG21<br>H16B-TSBS-M20<br>H16B-TSBS-M25<br>H16B-TSBHS-PG21<br>H16B-TSBHS-PG29<br>H16B-TSBHS-M25<br>H16B-TSBHS-M32 | T1250163116-000<br>T1250163121-000<br>T1250163120-000<br>T1250163125-000<br>T1270163121-000<br>T1270163129-000<br>T1270163125-000<br>T1270163132-000 |
| Construction: H<br>Low: 60<br>Hight: 76 | | | | |
| **Top entry housing with two levers** | | | | |
|  Low construction High construction | M20<br>M25<br>M25<br>M32 | PG16<br>PG21<br>PG21<br>PG29 | H16B-TGBS-PG16<br>H16B-TGBS-PG21<br>H16B-TGBS-M20<br>H16B-TGBS-M25<br>H16B-TGBHS-PG21<br>H16B-TGBHS-PG29<br>H16B-TGBHS-M25<br>H16B-TGBHS-M32 | T1260163116-000<br>T1260163121-000<br>T1260163120-000<br>T1260163125-000<br>T1280163121-000<br>T1280163129-000<br>T1280163125-000<br>T1280163132-000 |
| Construction: H<br>Low: 60<br>Hight: 76 | | | | |
| **Bulkhead mounted with 4 bolts** | | | | |
| With protection cover   1 Side entry Low construction 2 Side entry 1 Side entry High construction 2 Side entry | M25<br>M25<br>M25<br>M32<br>M25<br>M32 | <br>PG21<br>PG21<br>PG29<br>PG21<br>PG29 | H16B-AD-BO<br>H16B-SDR-BO-PG21<br>H16B-SDR-BO-M25<br>H16B-SDR-BO-2PG21<br>H16B-SDR-BO-2M25<br>H16B-SDRH-BO-PG21<br>H16B-SDRH-BO-PG29<br>H16B-SDRH-BO-M25<br>H16B-SDRH-BO-M32<br>H16B-SDRH-BO-2PG21<br>H16B-SDRH-BO-2PG29<br>H16B-SDRH-BO-2M25<br>H16B-SDRH-BO-2M32 | T1430160000-000<br>T1460160121-000<br>T1460160125-000<br>T1460160221-000<br>T1460160225-000<br>T1490160121-000<br>T1490160129-000<br>T1490160125-000<br>T1490160132-000<br>T1490160221-000<br>T1490160229-000<br>T1490160225-000<br>T1490160232-000 |

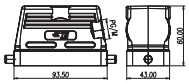
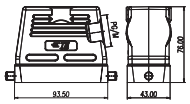
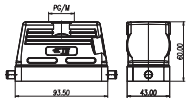
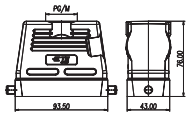
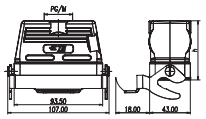
| Construction | A | B | C | D | F | G | H |
|---|---|---|---|---|---|---|---|
| Low | 105 | 117 | 45 | 57 | 20 | 65 | 56 |
| Hight | 105 | 117 | 45 | 57 | 20 | 65 | 81 |



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

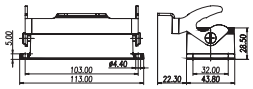
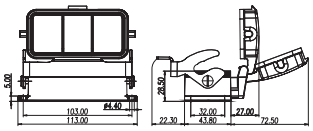
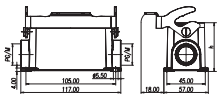
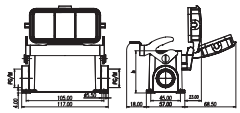
## H16B with 1 lever on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | | Metr. | PG | Type | Part Number |
|---|---|---|---|---|---|
| Hood: Side entry | | | | | |
| | Low construction  | M25<br>M32 | PG21<br>PG29 | H16B-TS-RO-PG21<br>H16B-TS-RO-PG29<br>H16B-TS-RO-M25<br>H16B-TS-RO-M32 | T1310160121-000<br>T1310160129-000<br>T1310160125-000<br>T1310160132-000 |
| | High construction  | M25<br>M32<br>M40 | PG21<br>PG29 | H16B-TSH-RO-PG21<br>H16B-TSH-RO-PG29<br>H16B-TSH-RO-M25<br>H16B-TSH-RO-M32<br>H16B-TSH-RO-M40 | T1330160121-000<br>T1330160129-000<br>T1330160125-000<br>T1330160132-000<br>T1330160140-000 |
| Hood: Top entry | | | | | |
| | Low construction  | M25<br>M32 | PG21<br>PG29 | H16B-TG-RO-PG21<br>H16B-TG-RO-PG29<br>H16B-TG-RO-M25<br>H16B-TG-RO-M32 | T1320160121-000<br>T1320160129-000<br>T1320160125-000<br>T1320160132-000 |
| | High construction  | M25<br>M32<br>M40 | PG21<br>PG29 | H16B-TGH-RO-PG21<br>H16B-TGH-RO-PG29<br>H16B-TGH-RO-M25<br>H16B-TGH-RO-M32<br>H16B-TGH-RO-M40 | T1340160121-000<br>T1340160129-000<br>T1340160125-000<br>T1340160132-000<br>T1340160140-000 |
| Cable-to-cable hood | | | | | |
| |  Low construction High construction<br>Construction \| H<br>Low \| 62.5<br>Hight \| 74.5 | M25<br>M32<br><br>M25<br>M32<br>M40 | PG21<br>PG29<br><br>PG21<br>PG29 | H16B-TBF-LB-PG21<br>H16B-TBF-LB-PG29<br>H16B-TBF-LB-M25<br>H16B-TBF-LB-M32<br><br>H16B-TBFH-LB-PG21<br>H16B-TBFH-LB-PG29<br>H16B-TBFH-LB-M25<br>H16B-TBFH-LB-M32<br>H16B-TBFH-LB-M40 | T1730163121-000<br>T1730163129-000<br>T1730163125-000<br>T1730163132-000<br><br>T1770163121-000<br>T1770163129-000<br>T1770163125-000<br>T1770163132-000<br>T1770163140-000 |
| Protection covers for hoods | | | | | |
| | | | | H16B-KDTP-LB | T1010161500-000 |

## H16B with 1 lever on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | Metr. | PG | Type | Part Number |
|---|---|---|---|---|
| Bulkhead mounted | | | | |
|  | | | H16B-AG-LB | T1500163000-000 |
| With protection cover  | | | H16B-AD-LB | T1510163000-000 |
| Surface mounted: Side entry | | | | |
|  1 Side entry Low construction 2 Side entry 1 Side entry High construction 2 Side entry | M20<br>M25<br><br><br>M20<br>M25<br><br><br>M25<br>M32<br><br><br>M25<br>M32 | PG16<br>PG21<br><br><br>PG16<br>PG21<br><br><br>PG21<br>PG29<br><br><br>PG21<br>PG29<br><br><br> | H16B-SGR-LB-PG16<br>H16B-SGR-LB-PG21<br>H16B-SGR-LB-M20<br>H16B-SGR-LB-M25<br>H16B-SGR-LB-2PG16<br>H16B-SGR-LB-2PG21<br>H16B-SGR-LB-2M20<br>H16B-SGR-LB-2M25<br>H16B-SGRH-LB-PG21<br>H16B-SGRH-LB-PG29<br>H16B-SGRH-LB-M25<br>H16B-SGRH-LB-M32<br>H16B-SGRH-LB-2PG21<br>H16B-SGRH-LB-2PG29<br>H16B-SGRH-LB-2M25<br>H16B-SGRH-LB-2M32 | T1610163116-000<br>T1610163121-000<br>T1610163120-000<br>T1610163125-000<br>T1610163216-000<br>T1610163221-000<br>T1610163220-000<br>T1610163225-000<br>T1650163121-000<br>T1650163129-000<br>T1650163125-000<br>T1650163132-000<br>T1650163221-000<br>T1650163229-000<br>T1650163225-000<br>T1650163232-000 |
| With protection cover  1 Side entry Low construction 2 Side entry 1 Side entry High construction 2 Side entry | M20<br>M25<br><br><br>M20<br>M25<br><br><br>M25<br>M32<br><br><br>M25<br>M32 | PG16<br>PG21<br><br><br>PG16<br>PG21<br><br><br>PG21<br>PG29<br><br><br>PG21<br>PG29<br><br><br> | H16B-SDR-LB-PG16<br>H16B-SDR-LB-PG21<br>H16B-SDR-LB-M20<br>H16B-SDR-LB-M25<br>H16B-SDR-LB-2PG16<br>H16B-SDR-LB-2PG21<br>H16B-SDR-LB-2M20<br>H16B-SDR-LB-2M25<br>H16B-SDRH-LB-PG21<br>H16B-SDRH-LB-PG29<br>H16B-SDRH-LB-M25<br>H16B-SDRH-LB-M32<br>H16B-SDRH-LB-2PG21<br>H16B-SDRH-LB-2PG29<br>H16B-SDRH-LB-2M25<br>H16B-SDRH-LB-2M32 | T1620163116-000<br>T1620163121-000<br>T1620163120-000<br>T1620163125-000<br>T1620163216-000<br>T1620163221-000<br>T1620163220-000<br>T1620163225-000<br>T1660163121-000<br>T1660163129-000<br>T1660163125-000<br>T1660163132-000<br>T1660163221-000<br>T1660163229-000<br>T1660163225-000<br>T1660163232-000 |

| Construction | H |
|---|---|
| Low | 56 |
| Hight | 81 |

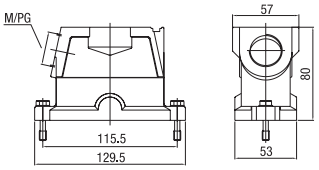
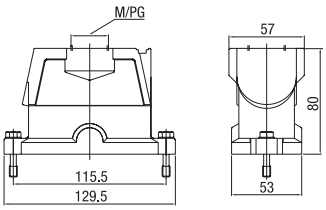
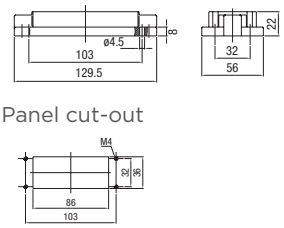
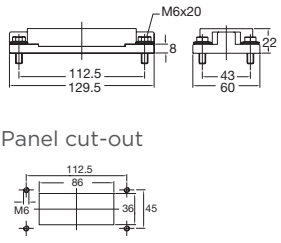


All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

## 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

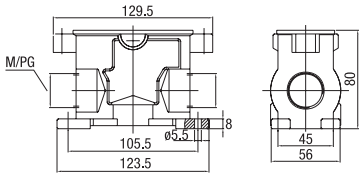
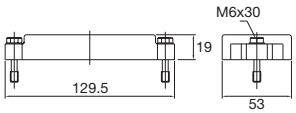
**Pressure-tight up to 5 bar** **IP 68 / IP 69 K**

| Description | | Metr. | PG | Type | Part Number |
|---|---|---|---|---|---|
| **Hood:** Side entry | | | | | |
| |  | M32 | 21<br>29 | **HIP**<br>HIP.16/40.STS.1.21.G<br>HIP.16/40.STS.1.29.G | 1-1102649-5<br>1-1102651-5 |
| | | M32 | | HIP.16/40.STS.1.M32.G | 0-1106454-2 |
| | | | 29 | **HIP-K**<br>HIP-K.16/40.STS.1.29.G | 2-1102651-5 |
| | | M32 | | HIP-K.16/40.STS.1.M32.G | 0-1106444-2 |
| | | | 29 | **EMV-K**<br>EMV-K.16/40.STS.1.29.G | 4-1102723-5 |
| | | M32 | | EMV-K.16/40.STS.1.M32.G | 0-1106446-4 |
| | | | 21 | EMV-K.16/40.STS.1.21.G | 4-1102722-5 |
| **Hood:** Top entry | | | | | |
| |  | M32 | 21<br>29 | **HIP**<br>HIP.16/40.STO.1.21.G<br>HIP.16/40.STO.1.29.G | 1-1102653-5<br>1-1102655-5 |
| | | M32 | | HIP.16/40.STO.1.M32.G | 0-1106454-1 |
| | | | 21<br>29 | **HIP-K**<br>HIP-K.16/40.STO.2.21.G<br>HIP-K.16/40.STO.1.29.G | 0-1108534-1<br>2-1102655-5 |
| | | M32 | | HIP-K.16/40.STO.1.M32.G | 0-1106444-1 |
| | | | 29 | **EMV-K**<br>EMV-K.16/40.STO.1.29.G | 4-1102725-5 |
| | | M32 | | EMV-K.16/40.STO.1.M32.G | 0-1106446-3 |
| **Surface mounted housing:** Bottom entry | | | | | |
| |  | | | **HIP**<br>HIP.16/40.AG | 1-1102656-5 |
| | | | | **HIP-K**<br>HIP-K.16/40.AG | 2-1102656-5 |
| | | | | **EMV-K**<br>EMV-K.16/40.AG | 4-1102728-5 |
| |  | | | **HIP**<br>HIP.16/40.AG.M6 | 1-1102618-5 |
| | | | | **HIP-K**<br>HIP-K.16/40.AG.M6 | 2-1102618-5 |
| | | | | **EMV-K**<br>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 | | | | | |
| |  | | | **HIP** | |
| | | | 21 | HIP.16/40.SG.1.21.G | 1-1102616-5 |
| | | | 2x21 | HIP.16/40.SG.2.21.G | 1-1102617-5 |
| | | 2xM32 | | HIP.16/40.SG.2.M32.G | 0-1106453-1 |
| | | | | **HIP-K** | |
| | | | 21 | HIP-K.16/40.SG.1.21.G | 5-1102616-5 |
| | | | 2x21 | HIP-K.16/40.SG.2.21.G | 2-1102617-5 |
| | | 2xM32 | | HIP-K.16/40.SG.2.M32.G | 0-1106443-1 |
| | | | | **EMV-K** | |
| | | | 21 | EMV-K.16/40.SG.1.21.Z | 4-1102726-5 |
| | | | 2x21 | EMV-K.16/40.SG.2.21.Z | 4-1102727-5 |
| | | 2xM32 | | EMV-K.16/40.SG.2.M32.G | 0-1106445-2 |
| **Protective covers for housings** | | | | | |
| |  | | | **HIP** | |
| | | | | HIP/EMV.16/40.SKB | 3-1106203-5 |
| | | | | **HIP-K** | |
| | | | | HIP-K.16/40.SKB | 4-1106203-5 |



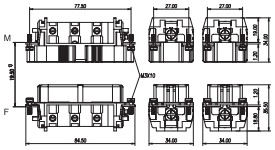
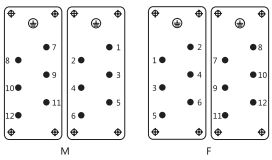
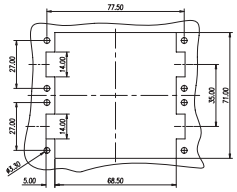
All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

## HSB-012 inserts

INSERTS FOR H32B HOOD/HOUSING

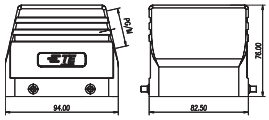
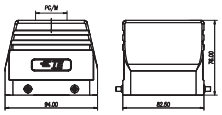
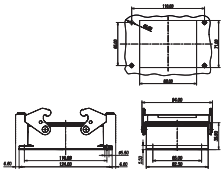
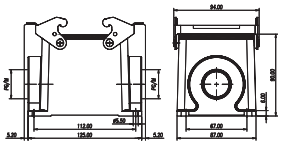
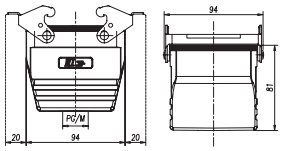
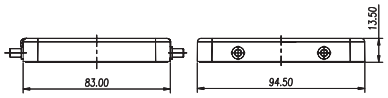
690V 35A

12 (2x6)+ ⏚

| Dimensions (mm) | | Type | Part Number | |
|---|---|---|---|---|
| | | | Male insert | Female insert |
| Screw terminal | | | | |
| |  | HSB-006-M(1-6)<br>HSB-006-M(7-12) | T2060062101-000<br>T2060122101-000 | |
| | | HSB-006-F(1-6)<br>HSB-006-F(7-12) | | T2060062201-000<br>T2060122201-000 |
| 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

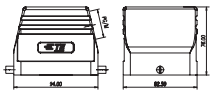
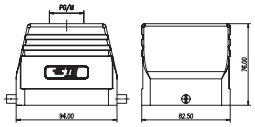
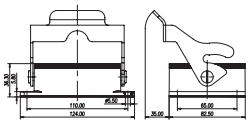
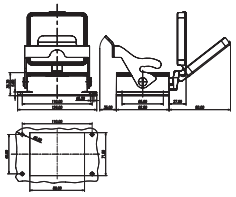
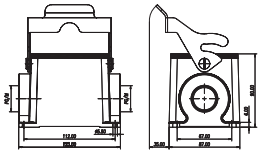
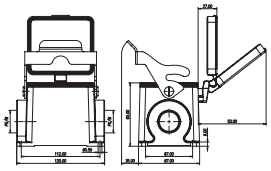
| Dimensions (mm) | | Metr. | PG | Type | Part Number |
|---|---|---|---|---|---|
| Hood: Side entry | | | | | |
| |  | M32<br>M40 | PG29<br>PG36 | H32B-TS-PG29<br>H32B-TS-PG36<br>H32B-TS-M32<br>H32B-TS-M40 | T1210320129-000<br>T1210320136-000<br>T1210320132-000<br>T1210320140-000 |
| Hood: Top entry | | | | | |
| |  | M25<br>M32<br>M40<br>M50 | PG21<br>PG29<br>PG36<br>PG42 | H32B-TG-PG21<br>H32B-TG-PG29<br>H32B-TG-PG36<br>H32B-TG-PG42<br>H32B-TG-M25<br>H32B-TG-M32<br>H32B-TG-M40<br>H32B-TG-M50 | T1220320121-000<br>T1220320129-000<br>T1220320136-000<br>T1220320142-000<br>T1220320125-000<br>T1220320132-000<br>T1220320140-000<br>T1220320150-000 |
| Bulkhead mounted | | | | | |
| |  | | | H32B-AG | T1410322000-000 |
| Surface mounted: Side entry | | | | | |
| |  | M32<br>M40<br>M50<br>M63<br><br><br><br>M32<br>M40<br>M50<br>M63 | PG29<br>PG36<br>PG42<br><br><br><br>PG29<br>PG36<br>PG42<br><br><br><br> | H32B-SGR-PG29<br>H32B-SGR-PG36<br>H32B-SGR-PG42<br>H32B-SGR-M32<br>H32B-SGR-M40<br>H32B-SGR-M50<br>H32B-SGR-M63<br>H32B-SGR-2PG29<br>H32B-SGR-2PG36<br>H32B-SGR-2PG42<br>H32B-SGR-2M32<br>H32B-SGR-2M40<br>H32B-SGR-2M50<br>H32B-SGR-2M63 | T1440322129-000<br>T1440322136-000<br>T1440322142-000<br>T1440322132-000<br>T1440322140-000<br>T1440322150-000<br>T1440322163-000<br>T1440322229-000<br>T1440322236-000<br>T1440322242-000<br>T1440322232-000<br>T1440322240-000<br>T1440322250-000<br>T1440322263-000 |
| Cable-to-cable hood | | | | | |
| |  | M32<br>M40<br>M50<br>M63 | PG29<br>PG36<br>PG42 | H32B-TBF-PG29<br>H32B-TBF-PG36<br>H32B-TBF-PG42<br>H32B-TBF-M32<br>H32B-TBF-M40<br>H32B-TBF-M50<br>H32B-TBF-M63 | T1710322129-000<br>T1710322136-000<br>T1710322142-000<br>T1710322132-000<br>T1710322140-000<br>T1710322150-000<br>T1710322163-000 |
| Protection covers for hoods | | | | | |
| |  | | | H32B-KDB | T1000321220-000 |



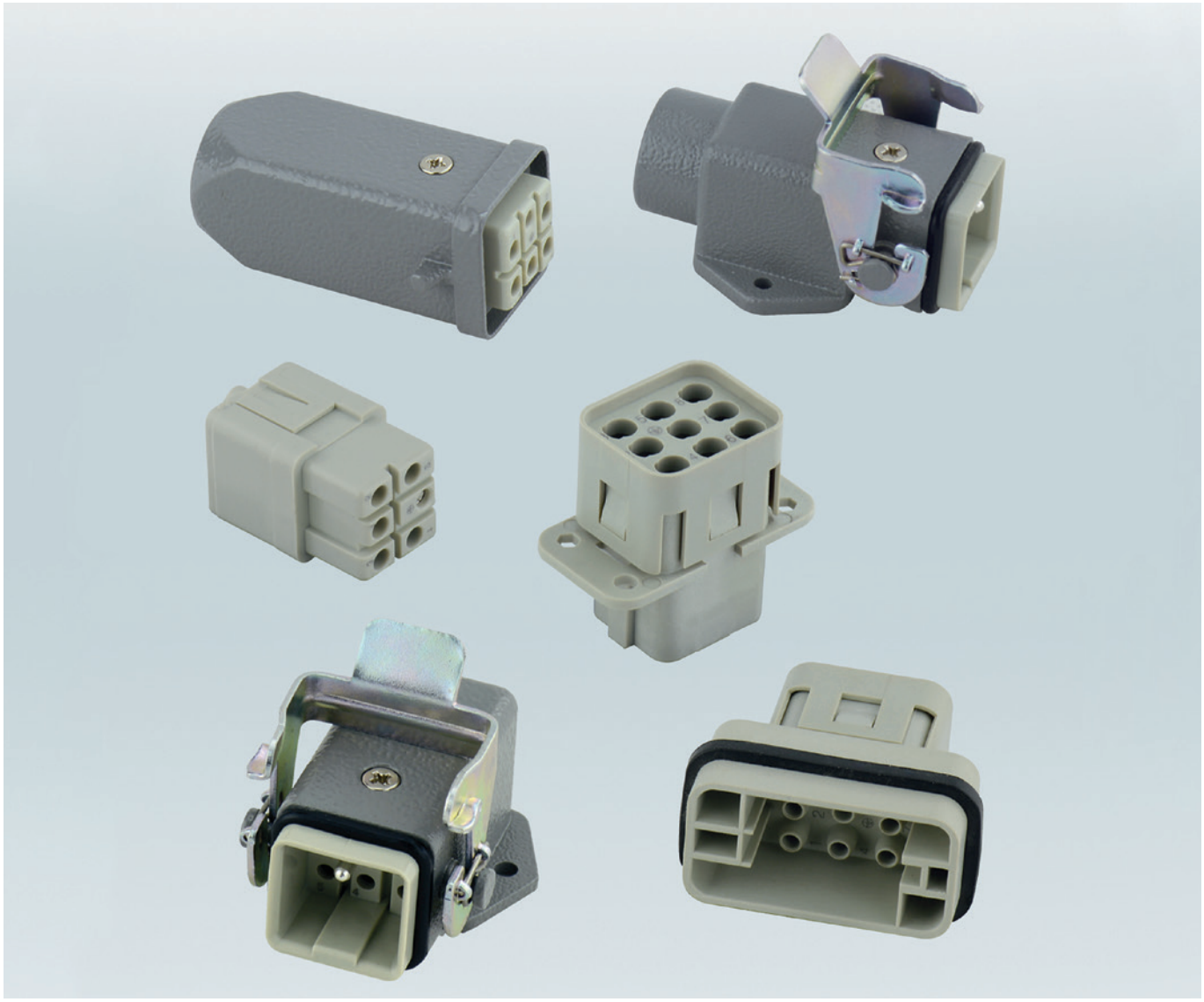
All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

## H32B with 1 lever on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | | Metr. | PG | Type | Part Number |
|---|---|---|---|---|---|
| Hood: Side entry | | | | | |
| |  | M32<br>M40 | PG29<br>PG36 | H32B-TS-RO-PG29<br>H32B-TS-RO-PG36<br>H32B-TS-RO-M32<br>H32B-TS-RO-M40 | T1310320129-000<br>T1310320136-000<br>T1310320132-000<br>T1310320140-000 |
| Hood: Top entry | | | | | |
| |  | M25<br>M32<br>M40<br>M50 | PG21<br>PG29<br>PG36<br>PG42 | H32B-TG-RO-PG21<br>H32B-TG-RO-PG29<br>H32B-TG-RO-PG36<br>H32B-TG-RO-PG42<br>H32B-TG-RO-M25<br>H32B-TG-RO-M32<br>H32B-TG-RO-M40<br>H32B-TG-RO-M50 | T1320320121-000<br>T1320320129-000<br>T1320320136-000<br>T1320320142-000<br>T1320320125-000<br>T1320320132-000<br>T1320320140-000<br>T1320320150-000 |
| Bulkhead mounted | | | | | |
| |  | | | H32B-AG-LB | T1500322000-000 |
| | With protection cover<br>  | | | H32B-AD-LB | T1510322000-000 |
| Surface mounted: Side entry | | | | | |
| |  <br>1 Side entry<br>2 Side entry | M32<br>M40<br><br>M32<br>M40 | PG29<br><br>PG29 | H32B-SGR-LB-PG29<br>H32B-SGR-LB-M32<br>H32B-SGR-LB-M40<br>H32B-SGR-LB-2PG29<br>H32B-SGR-LB-2M32<br>H32B-SGR-LB-2M40 | T1610322129-000<br>T1610322132-000<br>T1610322140-000<br>T1610322229-000<br>T1610322232-000<br>T1610322240-000 |
| | With protection cover<br>  <br>1 Side entry<br>2 Side entry | M32<br>M40<br><br>M32<br>M40 | PG29<br><br>PG29 | H32B-SDR-LB-PG29<br>H32B-SDR-LB-M32<br>H32B-SDR-LB-M40<br>H32B-SDR-LB-2PG29<br>H32B-SDR-LB-2M32<br>H32B-SDR-LB-2M40 | T1620320129-000<br>T1620320132-000<br>T1620320140-000<br>T1620320229-000<br>T1620320232-000<br>T1620320240-000 |

## 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



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

# HQ technical characteristics

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

## 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 | ≤1mΩ |
| Terminal | Crimp terminal |
| - $mm^2$ | 0.14-4.0/0.14-2.5/1.5-6$mm^2$ |
| - 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 |

## CURRENT CARRYING CAPACITY

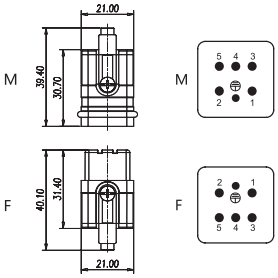
The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals. Control and test procedures according to DIN IEC 60512-3.

## HQ-005 inserts

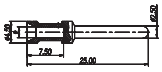
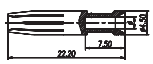
INSERTS FOR H3A HOOD/HOUSING

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) | | | | |
| |  | T2080052101-000 | | HQ-005-M |
| | | | T2080052201-000 | HQ-005-F |

### 16A Contact

| Tech data<br>**Material:**<br>copper alloy<br>**Contact resistance:** ≤1mΩ<br>**Terminal:**<br>crimp connection | 16A Male crimp contacts | Wire gauge | | Strip-ping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|---|---|---|---|---|---|---|
| | | mm² | AWG | mm | Type | Part Number | Type | Part Number |
| **CEM/Male** |  | 0.14-0.37 | 26-22 | 7.5 | CEM-0.3 | T2030001002-000 | DEM-0.3 | T2030011002-000 |
| | | 0.5 | 20 | 7.5 | CEM-0.5 | T2030001005-000 | DEM-0.5 | T2030011005-000 |
| | | 0.75 | 18 | 7.5 | CEM-0.75 | T2030001008-000 | DEM-0.75 | T2030011008-000 |
| | | 1.0 | 18 | 7.5 | CEM-1.0 | T2030001010-000 | DEM-1.0 | T2030011010-000 |
| | | 1.5 | 16 | 7.5 | CEM-1.5 | T2030001015-000 | DEM-1.5 | T2030011015-000 |
| | | 2.5 | 14 | 7.5 | CEM-2.5 | T2030001025-000 | DEM-2.5 | T2030011025-000 |
| | | 4.0 | 12 | 7.5 | CEM-4.0 | T2030001040-000 | DEM-4.0 | T2030011040-000 |
| **CEF/Female** | 16A Female crimp contacts  | 0.14-0.37 | 26-22 | 7.5 | CEF-0.3 | T2030002002-000 | DEF-0.3 | T2030012002-000 |
| | | 0.5 | 20 | 7.5 | CEF-0.5 | T2030002005-000 | DEF-0.5 | T2030012005-000 |
| | | 0.75 | 18 | 7.5 | CEF-0.75 | T2030002008-000 | DEF-0.75 | T2030012008-000 |
| | | 1.0 | 18 | 7.5 | CEF-1.0 | T2030002010-000 | DEF-1.0 | T2030012010-000 |
| | | 1.5 | 16 | 7.5 | CEF-1.5 | T2030002015-000 | DEF-1.5 | T2030012015-000 |
| | | 2.5 | 14 | 7.5 | CEF-2.5 | T2030002025-000 | DEF-2.5 | T2030012025-000 |
| | | 4.0 | 12 | 7.5 | CEF-4.0 | T2030002040-000 | DEF-4.0 | T2030012040-000 |



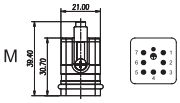
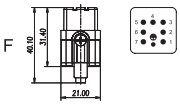
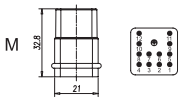
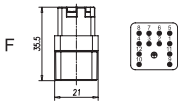
All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

# HQ-007/012 inserts

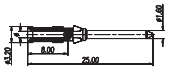
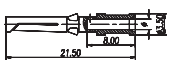
INSERTS FOR H3A HOOD/HOUSING

400V MAX. 10A

7+⏚
12+ ⏚

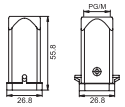
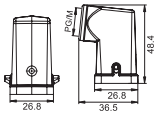
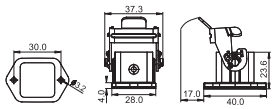
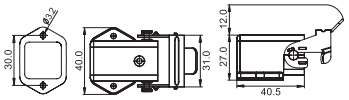
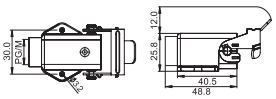
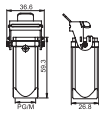
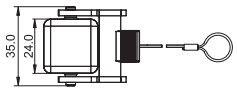
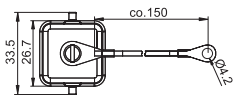
| Dimensions (mm) | Contact arrangement view from termination side | Part Number | | Type |
|---|---|---|---|---|
| | | Male insert | Female insert | |
| Crimp terminal (Order crimp contacts separately) | | | | |
| | M  F  | T2080072101-000 | | HQ-007-M |
| | | | T2080072201-000 | HQ-007-F |
| | M  F  | T2080122101-000 | | HQ-012-M |
| | | | T2080122201-000 | HQ-012-F |

## 10A Contact

| Tech data<br>**Material:**<br>copper alloy<br>**Contact resistance:** ≤3mΩ<br>**Terminal:**<br>crimp connection<br>**CDM/Male**<br> | 10A Male crimp contacts<br>  | Wire gauge | | Stripping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|---|---|---|---|---|---|---|
| | | mm² | AWG | mm | Type | Part Number | Type | Part Number |
| | | 0.14-0.37 | 26-22 | 8.0 | CDM-0.14 | T2020001002-000 | DDM-0.14 | T2020011002-000 |
| | | 0.5 | 20 | 8.0 | CDM-0.5 | T2020001005-000 | DDM-0.5 | T2020011005-000 |
| | | 0.75 | 18 | 8.0 | CDM-0.75 | T2020001008-000 | DDM-0.75 | T2020011008-000 |
| | | 1.0 | 18 | 8.0 | CDM-1.0 | T2020001010-000 | DDM-1.0 | T2020011010-000 |
| | | 1.5 | 16 | 8.0 | CDM-1.5 | T2020001015-000 | DDM-1.5 | T2020011015-000 |
| | | 2.5 | 14 | 6.0 | CDM-2.5 | T2020001025-000 | DDM-2.5 | T2020011025-000 |
| **CDF/Female**<br> | 10A Female crimp contacts<br>  | 0.14-0.37 | 26-22 | 8.0 | CDF-0.14 | T2020002002-000 | DDF-0.14 | T2020012002-000 |
| | | 0.5 | 20 | 8.0 | CDF-0.5 | T2020002005-000 | DDF-0.5 | T2020012005-000 |
| | | 0.75 | 18 | 8.0 | CDF-0.75 | T2020002008-000 | DDF-0.75 | T2020012008-000 |
| | | 1.0 | 18 | 8.0 | CDF-1.0 | T2020002010-000 | DDF-1.0 | T2020012010-000 |
| | | 1.5 | 16 | 8.0 | CDF-1.5 | T2020002015-000 | DDF-1.5 | T2020012015-000 |
| | | 2.5 | 14 | 6.0 | CDF-2.5 | T2020002025-000 | DDF-2.5 | T2020012025-000 |

## H3A metal hoods/housings

POWDER-COATED, RAL 7037

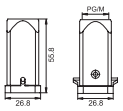
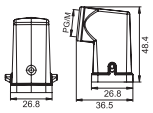
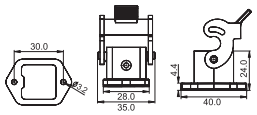
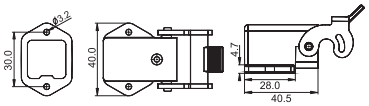
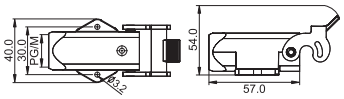
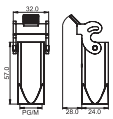
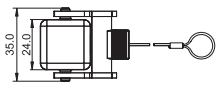
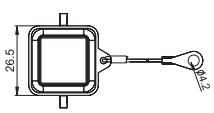
| Dimensions (mm) | | | Metr. | PG | Type | Part Number |
|---|---|---|---|---|---|---|
| Top entry | | | | | | |
| |  | | M20 | PG11 | H3A-MTG-PG11<br>H3A-MTG-M20 | T1329030111-000<br>T1329030120-000 |
| Side entry | | | | | | |
| |  | | M20 | PG11 | H3A-MTS-PG11<br>H3A-MTS-M20 | T1319030111-000<br>T1319030120-000 |
| Bulkhead mounting: Bottom entry | | | | | | |
| |  | | | | H3A-MAG | T1509030000-000 |
| Bulkhead mounting: Side entry | | | | | | |
| |  | | | | H3A-MAGS | T1549030000-000 |
| Surface mounting: Side entry | | | | | | |
| |  | | M16<br>M20 | PG11 | H3A-MAGSV-PG11<br>H3A-MAGSV-M16<br>H3A-MAGSV-M20 | T1619030111-000<br>T1619030116-000<br>T1619030120-000 |
| Cable-to-cable hood: | | | | | | |
| |  | | M20 | PG11 | H3A-MTGVB-PG11<br>H3A-MTGVB-M20 | T1739030111-000<br>T1739030120-000 |
| Protection covers for hoods (thermoplastic) | | | | | | |
| | Note: For mounted male insert and hood |  | | | H3A-KDTP | T1010031100-000 |
| Metal protection covers for hoods | | | | | | |
| | Note: For mounted female insert and hood |  | | | H3A-KDB | T1010033100-000 |



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

# H3A thermoplastic hoods/housings

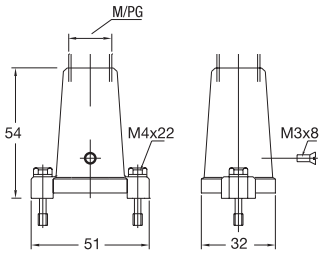
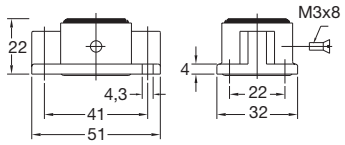
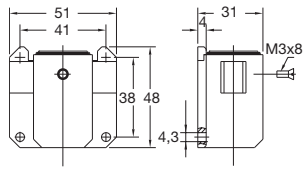
## THERMOPLASTIC HOODS, HOUSINGS

| Dimensions (mm) | | | Metr. | PG | Type | Part Number |
|---|---|---|---|---|---|---|
| Top entry | | | | | | |
| |  | | M20 | PG11 | H3A-TG-PG11<br>H3A-TG-M20 | T1329031111-000<br>T1329031120-000 |
| Side entry | | | | | | |
| |  | | M20 | PG11 | H3A-TS-PG11<br>H3A-TS-M20 | T1319031111-000<br>T1319031120-000 |
| Bulkhead mounting: Bottom entry | | | | | | |
| |  | | | | H3A-AG | T1509031100-000 |
| Bulkhead mounting: Side entry | | | | | | |
| |  | | | | H3A-AGS | T1509031111-000 |
| Surface mounting: Side entry | | | | | | |
| |  | | M16<br>M20 | PG11 | H3A-AGSV-PG11<br>H3A-AGSV-M16<br>H3A-AGSV-M20 | T1619031111-000<br>T1619031116-000<br>T1619031120-000 |
| Cable-to-cable hood: | | | | | | |
| |  | | M20 | PG11 | H3A-TGVB-PG11<br>H3A-TGVB-M20 | T1739031111-000<br>T1739031120-000 |
| Protection covers for hoods (thermoplastic) | | | | | | |
| | Note: For mounted male insert and hood |  | | | H3A-KDTP | T1010031100-000 |
| Protection covers for hoods | | | | | | |
| <br>White Grey | Note: For mounted female insert and hood |  | | | H3A-KDBP (White)<br>H3A-KDBPG (Grey) | T1010032100-000<br>T1010032300-000 |
| Covers without sealing type | | | | | | |
| | | | | | H3A-KDBP (White)<br>H3A-KDBP (Grey) | T1010033200-000<br>T1010032200-000 |

## 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 | | | | | |
| |  | | | **HIP** | |
| | | | 11 | HIP.3/4.ST0.1.11.G | 1-1102600-5 |
| | | M16 | | HIP.3/4.ST0.1.M16.G | 0-1106408-1 |
| | | | | **HIP-K** | |
| | | | 11 | HIP-K.3/4.ST0.1.11.G | 2-1102600-5 |
| | | M16 | | HIP-K.3/4.ST0.1.M16.G | 0-1106408-2 |
| | | M20 | | HIP-K.3/4.ST0.1.M20.G | 0-1106408-3 |
| | | | | **EMV-K** | |
| | | | 11 | EMV-K.3/4.ST0.1.11.G | 4-1102700-5 |
| | | M16 | | EMV-K.3/4.ST0.1.M16.G | 0-1106402-2 |
| | | M20 | | EMV-K.3/4.ST0.1.M20.G | 0-1106402-3 |
| **Surface mounted housing:** Bottom entry | | | | | |
| |  <br>Panel cut-out 21 x 21 | | | **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) | | | | | |
| |  <br>Panel cut-out ø 20 | | | **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 |

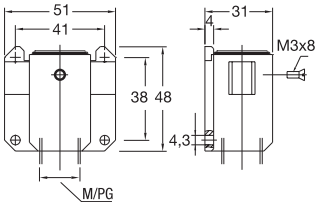
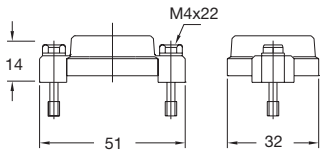


All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

## 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

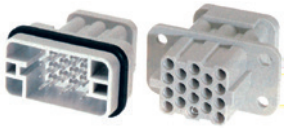
**Screw lock on hood** **IP 68 / IP 69 K**

| Description | | Metr. | PG | Type | Part Number |
|---|---|---|---|---|---|
| **Surface mounted housing:** Side entry | | | | | |
| |  | | | **HIP** | |
| | | | PG11 | HIP.3/4.SG.1.11.G | 1-1102601-5 |
| | | M16 | | HIP.3/4.SG.1.M16.G | 0-1106407-1 |
| | | M20 | | HIP.3/4.SG.1.M20.G | 0-1106401-4 |
| | | | | **HIP-K** | |
| | | | PG11 | HIP-K.3/4.SG.1.11.G | 2-1102601-5 |
| | | M16 | | HIP-K.3/4.SG.1.M16.G | 0-1106407-2 |
| | | | | **EMV-K** | |
| | | | PG11 | EMV-K.3/4.SG.1.11.G | 4-1102701-5 |
| | | M16 | | EMV-K.3/4.SG.1.M16.G | 0-1106401-2 |
| | | M20 | | EMV-K.3/4.SG.1.M20.G | 0-1106401-3 |
| **Protective 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 |

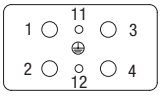
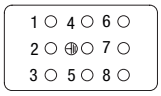
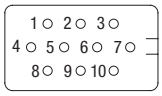
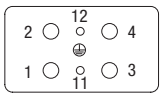
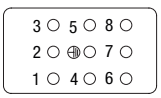
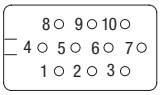
# HQ-017, 4/2, 8, 10 inserts

## 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 | T2080172101-000 | |
| | HQ-017-F | | T2080172201-000 |
| 400V/250V max. 40A/10A | HQ-4/2-M | T2080062101-100 | |
| | HQ-4/2-F | | T2080062201-100 |
| | HQ-008-M | T2019092101-000 | |
| | HQ-008-F | | T2019092201-000 |
| | 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 | | |
|   |   |   |



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

## Crimp contacts HN.D series

### 10A Contact

| Tech data<br>**Material:**<br>copper alloy<br>**Contact resistance:** ≤3mΩ<br>**Terminal:**<br>crimp connection<br>**CDM/Male** | 10A Male crimp contacts | Wire gauge | | Stripping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|---|---|---|---|---|---|---|
| | | mm² | AWG | mm | Type | Part Number | Type | Part Number |
| | | 0.14-0.37 | 26-22 | 8.0 | CDM-0.14 | T2020001002-000 | DDM-0.14 | T2020011002-000 |
| | | 0.5 | 20 | 8.0 | CDM-0.5 | T2020001005-000 | DDM-0.5 | T2020011005-000 |
| | | 0.75 | 18 | 8.0 | CDM-0.75 | T2020001008-000 | DDM-0.75 | T2020011008-000 |
| | | 1.0 | 18 | 8.0 | CDM-1.0 | T2020001010-000 | DDM-1.0 | T2020011010-000 |
| | | 1.5 | 16 | 8.0 | CDM-1.5 | T2020001015-000 | DDM-1.5 | T2020011015-000 |
| | | 2.5 | 14 | 6.0 | CDM-2.5 | T2020001025-000 | DDM-2.5 | T2020011025-000 |
| **CDF/Female** | **10A Female crimp contacts** | 0.14-0.37 | 26-22 | 8.0 | CDF-0.14 | T2020002002-000 | DDF-0.14 | T2020012002-000 |
| | | 0.5 | 20 | 8.0 | CDF-0.5 | T2020002005-000 | DDF-0.5 | T2020012005-000 |
| | | 0.75 | 18 | 8.0 | CDF-0.75 | T2020002008-000 | DDF-0.75 | T2020012008-000 |
| | | 1.0 | 18 | 8.0 | CDF-1.0 | T2020002010-000 | DDF-1.0 | T2020012010-000 |
| | | 1.5 | 16 | 8.0 | CDF-1.5 | T2020002015-000 | DDF-1.5 | T2020012015-000 |
| | | 2.5 | 14 | 6.0 | CDF-2.5 | T2020002025-000 | DDF-2.5 | T2020012025-000 |

## Crimping tools HN.D series

| Description | | Type | Part Number |
|---|---|---|---|
| **Crimp tool**<br>Wire range: 0.5-4.0mm²<br>Suitable for CDM/CDF and CEM/CEF contacts | | CRIMPBOX-0.5/4 | T3100000001-000 |
| **Crimp tool**<br>Wire range: 0.14-4.0mm²<br>Suitable for CDM/CDF and CEM/CEF contacts with locator and die | | RSZ.HE-HN.D-HVT | 1-1105851-8 |
| **Removal tools**<br>Used for CDM/CDF contact series | | REMOV-HD | T3100000003-000 |
| **M3 screw driver**<br>Used for HA/HE inserts | | SCREWD-M3 | T3100000009-000 |

## Crimp contacts HE/HA series

### 16A Contact

| Tech data<br>**Material:**<br>copper alloy<br>**Contact resistance:** ≤1mΩ<br>**Terminal:**<br>crimp connection<br>**CEM/Male** | 16A Male crimp contacts | Wire gauge | | Stripping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|---|---|---|---|---|---|---|
| | | mm² | AWG | mm | Type | Part Number | Type | Part Number |
| | | 0.14-0.37 | 26-22 | 7.5 | CEM-0.3 | T2030001002-000 | DEM-0.3 | T2030011002-000 |
| | | 0.5 | 20 | 7.5 | CEM-0.5 | T2030001005-000 | DEM-0.5 | T2030011005-000 |
| | | 0.75 | 18 | 7.5 | CEM-0.75 | T2030001008-000 | DEM-0.75 | T2030011008-000 |
| | | 1.0 | 18 | 7.5 | CEM-1.0 | T2030001010-000 | DEM-1.0 | T2030011010-000 |
| | | 1.5 | 16 | 7.5 | CEM-1.5 | T2030001015-000 | DEM-1.5 | T2030011015-000 |
| | | 2.5 | 14 | 7.5 | CEM-2.5 | T2030001025-000 | DEM-2.5 | T2030011025-000 |
| | | 4.0 | 12 | 7.5 | CEM-4.0 | T2030001040-000 | DEM-4.0 | T2030011040-000 |
| **CEF/Female** | **16A Female crimp contacts** | 0.14-0.37 | 26-22 | 7.5 | CEF-0.3 | T2030002002-000 | DEF-0.3 | T2030012002-000 |
| | | 0.5 | 20 | 7.5 | CEF-0.5 | T2030002005-000 | DEF-0.5 | T2030012005-000 |
| | | 0.75 | 18 | 7.5 | CEF-0.75 | T2030002008-000 | DEF-0.75 | T2030012008-000 |
| | | 1.0 | 18 | 7.5 | CEF-1.0 | T2030002010-000 | DEF-1.0 | T2030012010-000 |
| | | 1.5 | 16 | 7.5 | CEF-1.5 | T2030002015-000 | DEF-1.5 | T2030012015-000 |
| | | 2.5 | 14 | 7.5 | CEF-2.5 | T2030002025-000 | DEF-2.5 | T2030012025-000 |
| | | 4.0 | 12 | 7.5 | CEF-4.0 | T2030002040-000 | DEF-4.0 | T2030012040-000 |

## Crimping tools HE/HA series

| Description | | Type | Part Number |
|---|---|---|---|
| **Crimp tool**<br>Wire range: 0.5-4.0mm²<br>Suitable for CDM/CDF and CEM/CEF contacts | | CRIMPBOX-0.5/4 | T3100000001-000 |
| **Crimp tool**<br>Wire range: 0.14-4.0mm²<br>Suitable for CDM/CDF and CEM/CEF contacts with locator and die | | RSZ.HE-HN.D-HVT | 1-1105851-8 |
| **Removal tools**<br>Used for CEM/CEF contact series | | REMOV-HEE | T3100000002-000 |
| **M3 screw driver**<br>Used for HA/HE inserts | | SCREWD-M3 | T3100000009-000 |



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

## Crimp contacts HGQ10 series

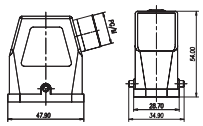
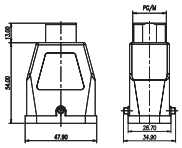
| Tech data | Type | Part Number | (mm²) | Tool |
|---|---|---|---|---|
| **Material:**<br>copper alloy<br>**Finish:**<br>tin plated<br>**Contact resistance:** ≤3mΩ<br>**Crimp Terminal:**<br>0.2-4.0 mm²<br>AWG: 24-12<br><br>Other finishes<br>and Materials on request<br><br>Appl. Spec.:<br>114-18018 |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

## Crimping tools HGQ10 series

| Description | Type | Part Number |
|---|---|---|
| Extraction tool | Extraction tool<br><br>Handtool<br>734285-11,5 mm²<br>734285-22,5 mm²<br>734285-34,0 mm² | 1-1579007-8 |
| 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 | | | | | |
| |  | <br>M20<br>M25<br><br>M25 | PG16 | H8A-TS-PG16<br>H8A-TS-M20<br>H8A-TS-M25<br>**EMV**<br>HG-Q-EMV.STO.1.M25.Z | T1359090116-000<br>T1319080120-000<br>T1319080125-000<br><br>0-1103073-3 |
| Hood: Top entry | | | | | |
| |  | M20<br>M25<br><br>M25 | | H8A-TG-M20<br>H8A-TG-M25<br>**EMV**<br>HG-Q-EMV.STO.1.M25.Z | T1329080120-000<br>T1329080125-000<br><br>0-1103073-4 |

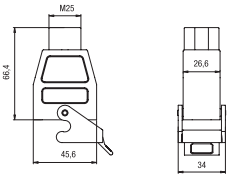
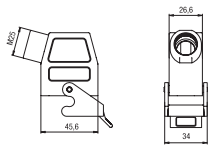
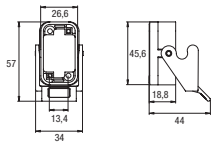


All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

## 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<br><br>M25 | | HG-Q.KDO-LB.1.M25.Z<br>**EMV**<br>HG-Q-EMV.KDO-LB.1.M25.Z | 0-1108795-1<br><br>0-1108795-3 |
| Cable-to-cable hood: Side entry | | | | | |
| |  | M25<br><br>M25 | | HG-Q.KDS-LB.1.M25.Z<br>**EMV**<br>HG-Q-EMV.KDS-LB.1.M25.Z | 0-1108795-2<br><br>0-1108795-4 |
| Surface mount housing: Bottom entry | | | | | |
| |  | M25<br><br>M25 | | HG-Q.AG-LB<br>**EMV**<br>HG-Q-EMV.AG-LB | 0-1103072-1<br><br>0-1103072-2 |

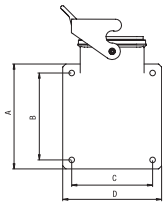
## HG-Q.10 motor housings

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

400V 20A

**IP 65**

| Description | Metr. | PG | Type | Part Number |
|---|---|---|---|---|
| | | | HG-Q.10.MC.1<br>**EMV**<br>HG-Q.10-EMV.MC.1 | 0-1103092-1<br><br>0-1103092-8 |
| | | | HG-Q.10.MC.2<br>**EMV**<br>HG-Q.10-EMV.MC.2 | 0-1103092-2<br><br>0-1103092-9 |
| | | | HG-Q.10.MC.3<br>**EMV**<br>HG-Q.10-EMV.MC.3 | 0-1103092-3<br><br>1-1103092-0 |
| | | | HG-Q.10.MC.4<br>**EMV**<br>HG-Q.10-EMV.MC.4 | 0-1103092-4<br><br>1-1103092-1 |
| | | | HG-Q.10.MC.5<br>**EMV**<br>HG-Q.10-EMV.MC.5 | 0-1103092-5<br><br>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 |



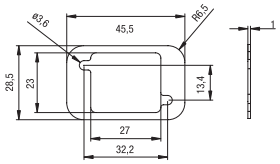
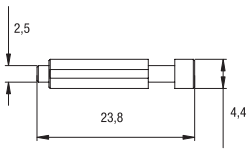
All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

## HG-Q accessories

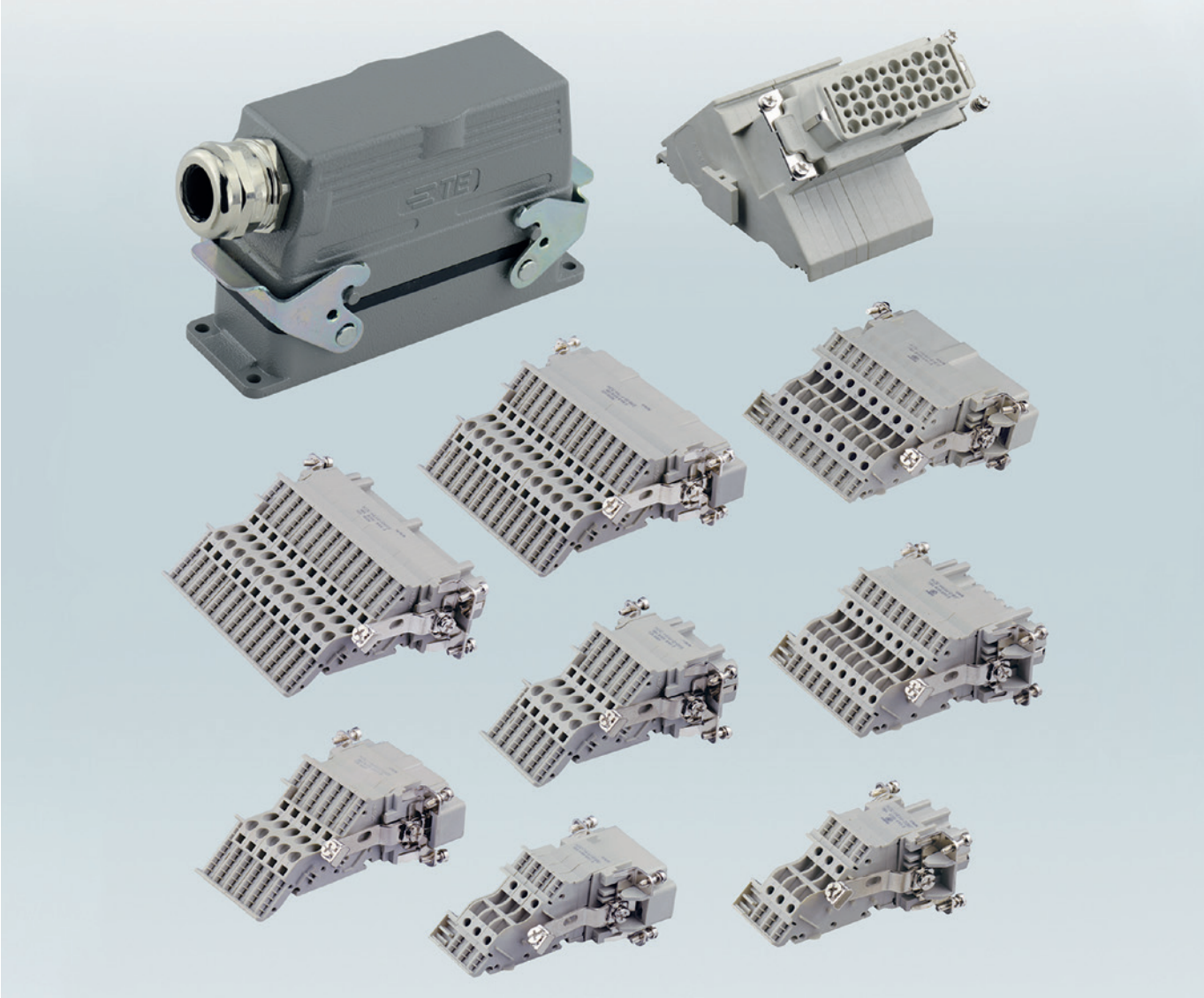
Plastic glass-fibre reinforced
**EMV:** Protection against electro-magnetic interference

SIZE Q

**IP 65**

| Description | Metr. | PG | Type | Part Number |
|---|---|---|---|---|
| Flange sealing for HG-Q.8 Surface mount housing | | | | |
|   | | | **Conductive**<br>HG-Q.FI-dicht-L | 0-1108794-2 |
| Gland fitting, IP68 plastic | | | | |
| All glands are supplied with a black M25 nut | M25 (Yellow)<br>M25 (Grey)<br>M25 (Black)<br>M25 (Green)<br>M25 (Red)<br>M25 (White) | | HG-Q.M25.6,5/4,0<br>HG-Q.M25.8,0/5,0<br>HG-Q.M25.9,5/6,5<br>HG-Q.M25.10,5/7,0<br>HG-Q.M25.13,0/9,0<br>HG-Q.M25.15,5/11,5 | 0-1103074-1<br>0-1103074-2<br>0-1103074-3<br>0-1103074-4<br>0-1103074-5<br>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



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

# HEAV/HESAV technical characteristics

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

## INSERTS

Working current ..... 16A max
(See current carrying capacity)
Working voltage ..... 500V
Test voltage urms ..... 6KV
Test voltage urms acc. to TUV ..... 4KV
Pollution degree ..... 2
Insulation resistance ..... ≥$10^{10}\Omega$
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

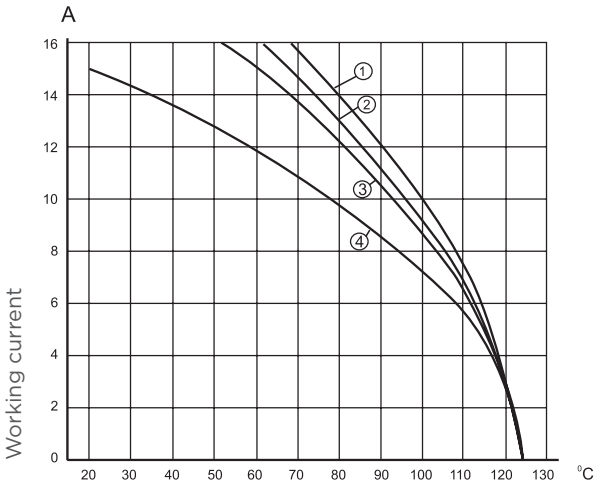
Material ..... Copper alloy
Surface ..... Hard silver-plated
Contact resistance ..... ≤4mΩ
HEAV Terminal ..... Screw terminal
- $mm^2$ ..... 0.2-2.5$mm^2$
- AWG ..... 24-14
HESAV Terminal ..... Spring terminal
- $mm^2$ ..... 0.5-2.5$mm^2$
- AWG ..... 20-14

## HOODS, HOUSINGS

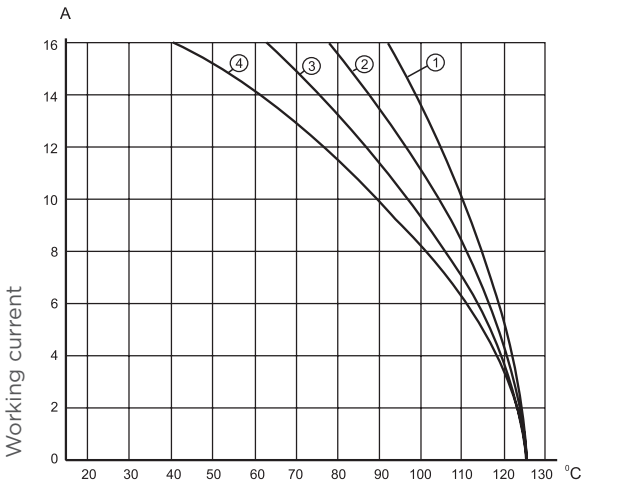
Material ..... Die cast aluminium
Surface ..... Powder-coated (RAL 7037)
Locking element ..... Stainless steel, steel-zinc plated
Temperature range ..... -40°C... +125°C
Degree of protection acc. to DIN40 050 ..... IP65

## 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  Wire gauge: 1.5 $mm^2$




Ambient temperature  Wire gauge: 2.50 $mm^2$

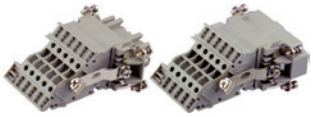
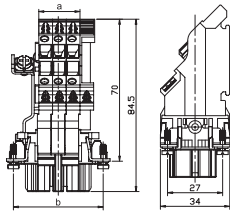
1 HEAV-006/HESAV-006
2 HEAV-010/HESAV-010
3 HEAV-016/HESAV-016
4 HEAV-024/HESAV-024

## HEAV inserts

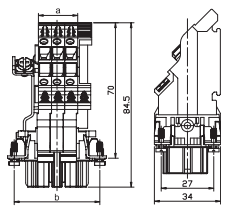
LEFT HAND VERSION
SCREW TERMINAL

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 | T2090062101-000 | |
| | | HEAV-006-F | | T2090062201-000 |
| Screw terminal 10+ ⏚ | | | | |
|  | 10-pole | HEAV-010-M | T2090102101-000 | |
| | | HEAV-010-F | | T2090102201-000 |
| Left hand version | | | | |
|  | | | | |

| Male insert/ Female insert | A | B |
|---|---|---|
| HEAV-006 | 20 | 44 |
| HEAV-010 | 34 | 57 |
| HEAV-016 | 54 | 77.5 |
| HEAV-024 | 81 | 104 |

| | | | | |
|---|---|---|---|---|
| Screw terminal 16+ ⏚ | | | | |
| | 16-pole | HEAV-016-M | T2090162101-000 | |
| | | HEAV-016-F | | T2090162201-000 |
| Screw terminal 24+ ⏚ | | | | |
| | 24-pole | HEAV-024-M | T2090242101-000 | |
| | | HEAV-024-F | | T2090242201-000 |
| Left hand version | | | | |
|  | | | | |

| Male insert/ Female insert | A | B |
|---|---|---|
| HEAV-006 | 20 | 44 |
| HEAV-010 | 34 | 57 |
| HEAV-016 | 54 | 77.5 |
| HEAV-024 | 81 | 104 |



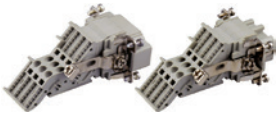
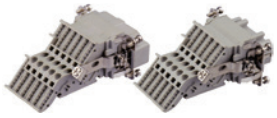
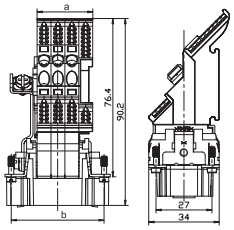
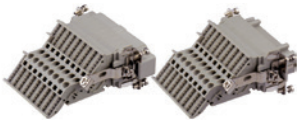
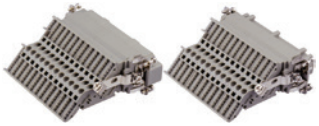
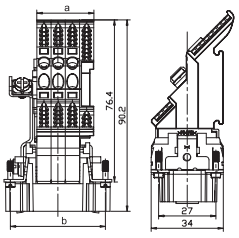
All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

## 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 | T2100063101-000 | |
| | | HEAV-006-FS | | T2100063201-000 |
| Spring terminal 10+ ⏚ | | | | |
|  | 10-pole | HEAV-010-MS | T2100103101-000 | |
| | | HEAV-010-FS | | T2100103201-000 |
| Left hand version | | | | |
|   | | | | |
| Spring terminal 16+ ⏚ | | | | |
|  | 16-pole | HEAV-016-MS | T2100163101-000 | |
| | | HEAV-016-FS | | T2100163201-000 |
| Spring terminal 24+ ⏚ | | | | |
|  | 24-pole | HEAV-024-MS | T2100243101-000 | |
| | | HEAV-024-FS | | T2100243201-000 |
| Left hand version | | | | |
|   | | | | |

| Male insert/ Female insert | A | B |
|---|---|---|
| HEAV-006 | 20 | 44 |
| HEAV-010 | 34 | 57 |
| HEAV-016 | 54 | 77.5 |
| HEAV-024 | 81 | 104 |

## HMN Modular Series

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

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

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

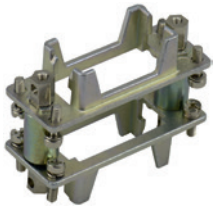
3. Approvals



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

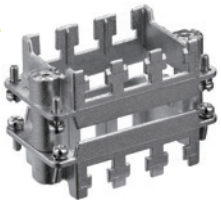
## HMN modular connectors overview

H10A

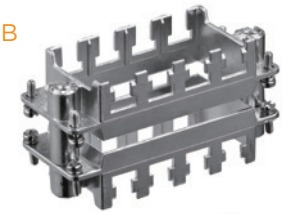


H6B

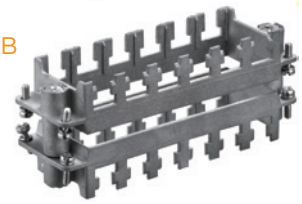
H10B



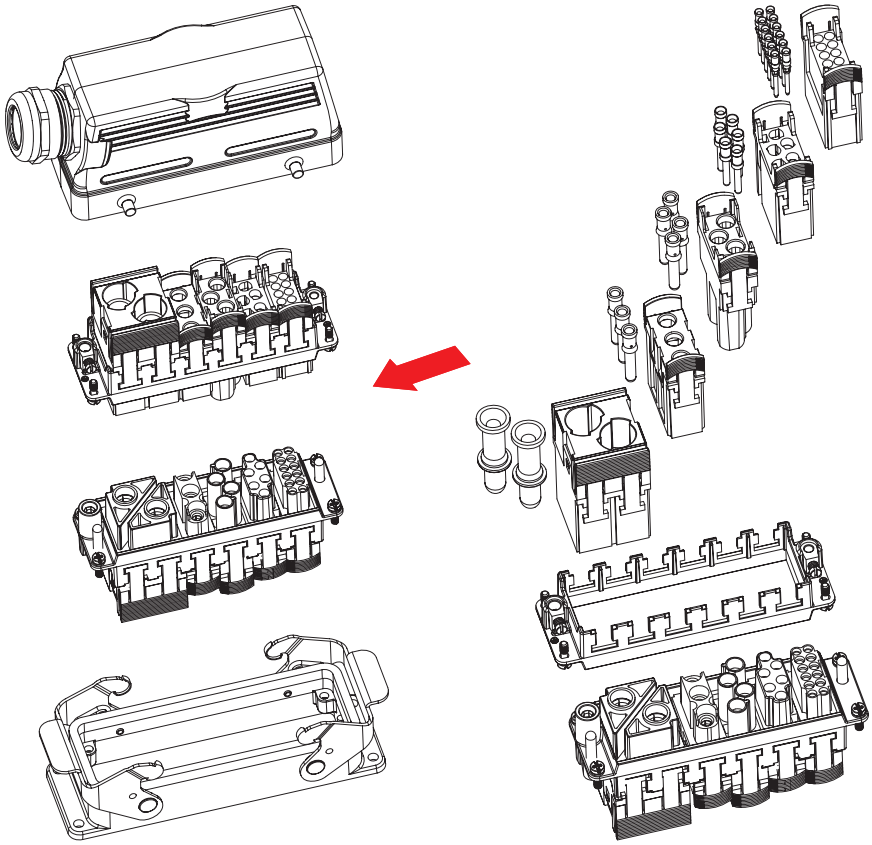
H16B



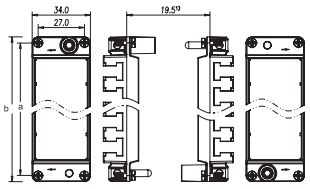
H24B

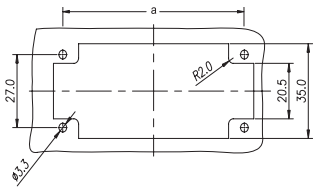


MODULAR UNITS, INSTALL AND REMOVE WITHOUT SPECIAL TOOLS!



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 | T2079104201-M | H10A-T1-M |
| | | T2079104101-F | H10A-T1-F |
| H6B frame for 2 modules | H6B | T2070064101-000 | H6BN-T2-M |
| | | T2070064201-000 | H6BN-T2-F |
| H10B frame for 3 modules | H10B | T2070104101-000 | H10BN-T3-M |
| | | T2070104201-000 | H10BN-T3-F |
| H16B frame for 4 modules | H16B | T2070164101-000 | H16BN-T4-M |
| | | T2070164201-000 | H16BN-T4-F |
| H24B frame for 6 modules | H24B | T2070244101-000 | H24BN-T6-M |
| | | T2070244201-000 | H24BN-T6-F |

## Notes



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

# 200A/1 Pole module technical characteristics

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

## INSERTS

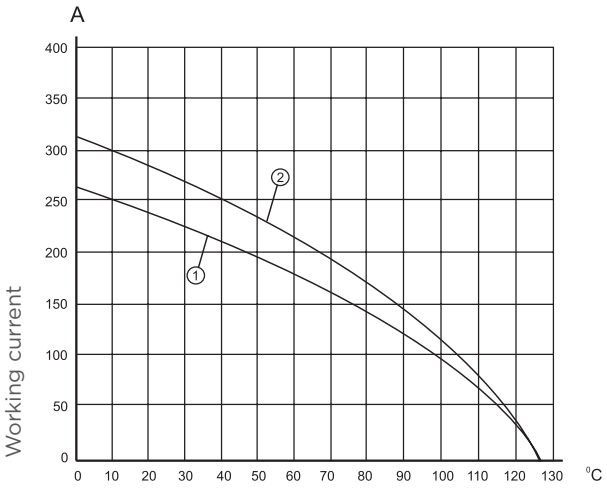
Working current ..... 200A max
(See current carrying capacity)
Working voltage ..... 1000V
Test voltage urms ..... 8KV
Pollution degree ..... 3
Insulation resistance ..... $\geq 10^{10}\Omega$
Material ..... Polycarbonate
Temperature range ..... -40°C... +125°C
Flammability acc. to UL94 ..... V0
Working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

## CONTACTS

Material ..... Copper alloy
Surface ..... Hard silver-plated
Contact resistance ..... ≤0.3mΩ
Terminal ..... Crimp terminal
- $mm^2$ ..... 25-70$mm^2$
- 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.




Ambient temperature

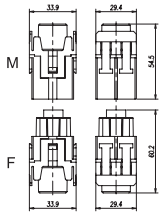
1 H24B hood/housing with 3 modules; wire gauge: 50$mm^2$
2 H24B hood/housing with 3 modules; wire gauge: 70$mm^2$

## HMN-001 module inserts

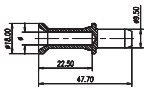
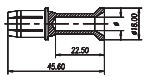
CRIMP TERMINAL

1000V MAX. 200A

1 Pole

| Dimensions (mm) | | Type | Part Number | |
|---|---|---|---|---|
| | | | Male insert | Female insert |
| Crimp terminal | Size chart | | | |
| |  | HMN-001-MC | T2111013101-000 | |
| | | HMN-001-FC | | T2111013201-000 |

### 200A Contact

| Tech data<br>**Material:**<br>copper<br>**Contact resistance:** ≤0.3mΩ<br>**Terminal:**<br>crimp connection<br>**CHM/Male**<br> | 200A Male crimp contacts<br>  | Wire gauge | Ø | Stripping length | Crimp contacts, silver-plated | |
|---|---|---|---|---|---|---|
| | | mm² | | mm | Type | Part Number |
| | | 25 | 7.0 | 22.5 | CHM-25 | T2060001025-000 |
| | | 35 | 8.2 | 22.5 | CHM-35 | T2060001035-000 |
| | | 50 | 10.0 | 22.5 | CHM-50 | T2060001050-000 |
| | | 70 | 11.5 | 22.5 | CHM-70 | T2060001070-000 |
| **CHF/Female**<br> | 200A Female crimp contacts<br>  | 25 | 7.0 | 22.5 | CHF-25 | T2060002025-000 |
| | | 35 | 8.2 | 22.5 | CHF-35 | T2060002035-000 |
| | | 50 | 10.0 | 22.5 | CHF-50 | T2060002050-000 |
| | | 70 | 11.5 | 22.5 | CHF-70 | T2060002070-000 |



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

# 100A/2 Poles module technical characteristics

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

## INSERTS

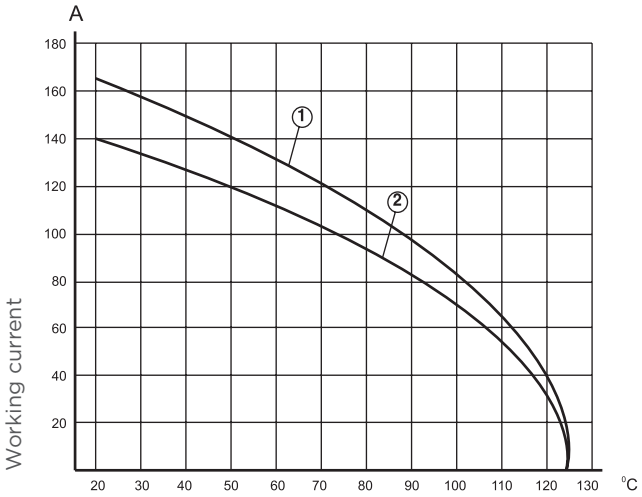
Working current ..... 100A max
(See current carrying capacity)
Working voltage ..... 1000V
Test voltage urms ..... 8KV
Pollution degree ..... 3
Insulation resistance ..... $\geq 10^{10}\Omega$
Material ..... Polycarbonate
Temperature range ..... -40°C... +125°C
Flammability acc. to UL94 ..... V0
Working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

## CONTACTS

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




Ambient temperature

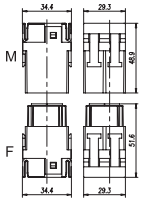
1 H24B hood/housing with 3 modules; wire gauge: 35$mm^2$
2 H24B hood/housing with 3 modules; wire gauge: 25$mm^2$

## HMN-D2 module inserts

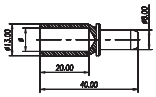
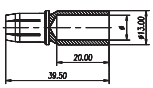
CRIMP TERMINAL

1000V MAX. 100A

2 Poles

| Dimensions (mm) | | Type | Part Number | |
|---|---|---|---|---|
| | | | Male insert | Female insert |
| Crimp terminal | Size chart | | | |
| |  | HMN-D2-MC | T2111028101-000 | |
| | | HMN-D2-FC | | T2111028201-000 |
| Contact arrangement view from termination side | | | | |
| | | | | |

### 100A Contact

| Tech data | 100A Male crimp contacts | Wire gauge | Ø | Stripping length | Crimp contacts, silver-plated | |
|---|---|---|---|---|---|---|
| | | mm² | | mm | Type | Part Number |
| **Material:** copper alloy<br>**Contact resistance:** ≤1mΩ<br>**Terminal:** crimp connection<br>**CDM/Male**<br> |  | 10<br>16<br>25<br>35 | 4.3<br>5.5<br>7<br>8.2 | 19<br>19<br>19<br>16 | CNM-10<br>CNM-16<br>CNM-25<br>CNM-35 | T2050001010-000<br>T2050001016-000<br>T2050001025-000<br>T2050001035-000 |
| **CDF/Female**<br> | **100A Female crimp contacts**<br>  | 10<br>16<br>25<br>35 | 4.3<br>5.5<br>7<br>8.2 | 19<br>19<br>19<br>16 | CNF-10<br>CNF-16<br>CNF-25<br>CNF-35 | T2050002010-000<br>T2050002016-000<br>T2050002025-000<br>T2050002035-000 |



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

# 70A/2 Poles module technical characteristics

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

## INSERTS

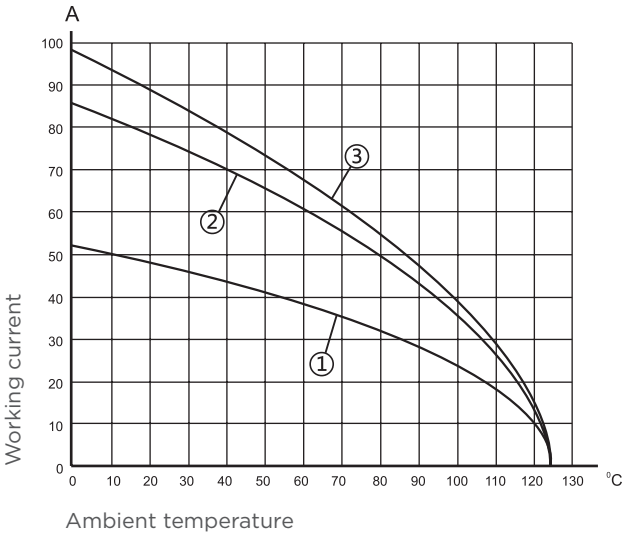
Working current ..... 70A max
(See current carrying capacity)
Working voltage ..... 1000V
Test voltage urms ..... 8KV
Pollution degree ..... 3
Insulation resistance ..... $\geq 10^{10}\Omega$
Material ..... Polycarbonate
Temperature range ..... -40°C... +125°C
Flammability acc. to UL94 ..... V0
Working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

## CONTACTS

Material ..... Copper alloy
Surface ..... Hard silver-plated
Contact resistance ..... ≤0.5mΩ
Terminal ..... Crimp terminal
- $mm^2$ ..... 6-22$mm^2$
- 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.



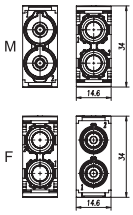

1 H24B hood/housing with 6 modules; wire gauge: 6$mm^2$
2 H24B hood/housing with 6 modules; wire gauge: 16$mm^2$
3 H24B hood/housing with 6 modules; wire gauge: 22$mm^2$

## HMN-002 module inserts

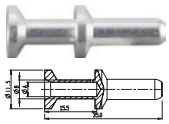
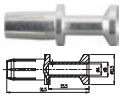
CRIMP TERMINAL

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 | T2111020101-000 | |
| | | HMN-002-FC | | T2111020201-000 |

### 70A Contact

| | | Wire gauge | | A | B | Crimp contacts, silver-plated | |
|---|---|---|---|---|---|---|---|
| | | mm² | AWG | | | Type | Part Number |
| Male |  | 10.0mm²<br>16.0mm²<br>25.0mm² | AWG7<br>AWG5<br>AWG3 | 4.3<br>5.5<br>7.0 | 5.6<br>8.5<br>10.0 | CSM-10<br>CSM-16<br>CSM-25 | T2400001100-000<br>T2400001160-000<br>T2400001250-000 |
| Female |  | 10.0mm²<br>16.0mm²<br>25.0mm² | AWG7<br>AWG5<br>AWG3 | 4.3<br>5.5<br>7.0 | 5.6<br>8.5<br>10.0 | CSF-10<br>CSF-16<br>CSF-25 | T2400002100-000<br>T2400002160-000<br>T2400002250-000 |



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

# 40A/3 Poles module technical characteristics

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

## INSERTS

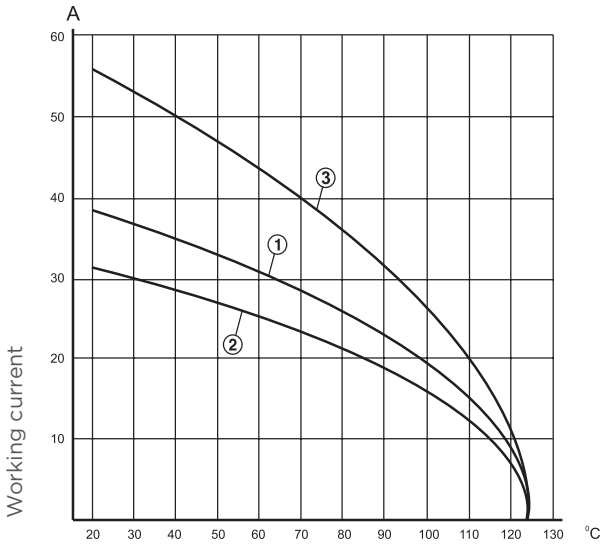
Working current ..... 40A max
(See current carrying capacity)
Working voltage
Cable ø up to 5mm..... 690V
Cable ø up to 7.5mm..... 500V
Test voltage urms ..... 6KV
Pollution degree ..... 3
Insulation resistance ..... ≥$10^{10}\Omega$
Material ..... Polycarbonate
Temperature range ..... -40°C... +125°C
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 ..... ≤0.3mΩ
Terminal ..... Crimp terminal
- $mm^2$ ..... 1.0-6$mm^2$
- 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.




Ambient temperature

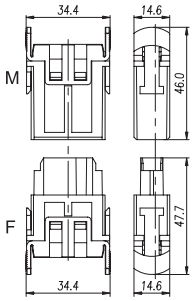
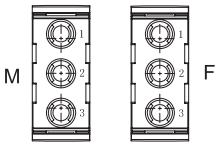
1 H24B hood/housing with 6 modules; wire gauge: 6.0$mm^2$
2 H24B hood/housing with 6 modules; wire gauge: 4.0$mm^2$
3 H24B hood/housing with 6 modules; wire gauge: 10.0$mm^2$

## HMN-003 module inserts

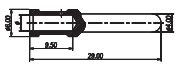
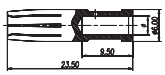
CRIMP TERMINAL

690V MAX. 40A

3 Poles

| Dimensions (mm) | | Type | Part Number | |
|---|---|---|---|---|
| | | | Male insert | Female insert |
| Crimp terminal | Size chart | | | |
| |   | HMN-003-M | T2111032101-000 | |
| | | HMN-003-F | | T2111032201-000 |
| Contact arrangement view from termination side | | | | |
|   | | | | |

### 40A Contact

| Tech data<br>**Material:**<br>copper alloy<br>**Contact resistance:** ≤0.3mΩ<br>**Terminal:**<br>crimp connection | 40A Male crimp contacts | Wire gauge | | Stripping length | Crimp contacts, silver-plated | |
|---|---|---|---|---|---|---|
| | | mm² | AWG | mm | Type | Part Number |
| **CMM/Male**<br> |  | 1.5 | 16 | 8.0 | CMM-1.5 | T2040001015-000 |
| | | 2.5 | 14 | 8.0 | CMM-2.5 | T2040001025-000 |
| | | 4.0 | 12 | 8.0 | CMM-4.0 | T2040001040-000 |
| | | 6.0 | 10 | 8.0 | CMM-6.0 | T2040001060-000 |
| | | 10 | 7 | 8.0 | CMM-10 | T2040001100-000 |
| **CMF/Female**<br> | 40A Female crimp contacts<br>  | 1.5 | 16 | 8.0 | CMF-1.5 | T2040002015-000 |
| | | 2.5 | 14 | 8.0 | CMF-2.5 | T2040002025-000 |
| | | 4.0 | 12 | 8.0 | CMF-4.0 | T2040002040-000 |
| | | 6.0 | 10 | 8.0 | CMF-6.0 | T2040002060-000 |
| | | 10 | 7 | 8.0 | CMF-10 | T2040002100-000 |



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

# 40A/4 Poles module technical characteristics

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

## INSERTS

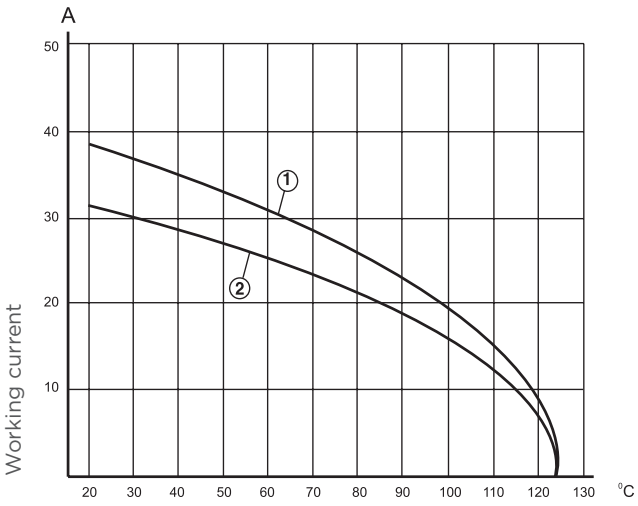
Working current ..... 40A max
(See current carrying capacity)
Working voltage
Cable ø up to 5mm ..... 830V
Cable ø up to 7.5mm ..... 500V
Test voltage urms ..... 8KV
Pollution degree ..... 3
Insulation resistance ..... $\geq 10^{10}\Omega$
Material ..... Polycarbonate
Temperature range ..... -40°C... +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 ..... ≤0.3mΩ
Terminal ..... Crimp terminal
- $mm^2$ ..... 1.0-6$mm^2$
- 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.



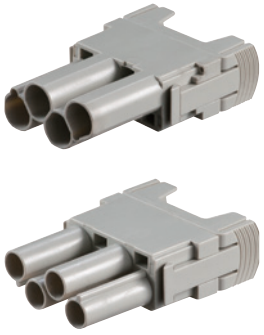
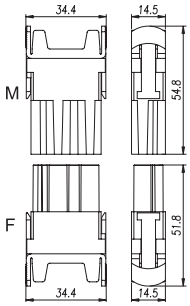
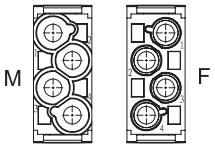

1 H24B hood/housing with 6 modules; wire gauge: 6.0$mm^2$
2 H24B hood/housing with 6 modules; wire gauge: 4.0$mm^2$

## HMN-004 module inserts

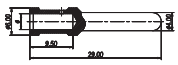
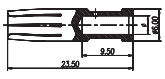
CRIMP TERMINAL

830V MAX. 40A

4 Poles

| Dimensions (mm) | | Type | Part Number | |
|---|---|---|---|---|
| | | | Male insert | Female insert |
| Crimp terminal | Size chart | | | |
|  |   | HMN-004-M | T2111042101-000 | |
| | | HMN-004-F | | T2111042201-000 |
| Contact arrangement view from termination side | | | | |
|   | | | | |

### 40A Contact

| Tech data<br>**Material:**<br>copper alloy<br>**Contact resistance:** ≤0.3mΩ<br>**Terminal:**<br>crimp connection<br>**CMM/Male**<br> | 40A Male crimp contacts<br>  | Wire gauge | | Stripping length | Crimp contacts, silver-plated | |
|---|---|---|---|---|---|---|
| | | mm² | AWG | mm | Type | Part Number |
| | | 1.5 | 16 | 8.0 | CMM-1.5 | T2040001015-000 |
| | | 2.5 | 14 | 8.0 | CMM-2.5 | T2040001025-000 |
| | | 4.0 | 12 | 8.0 | CMM-4.0 | T2040001040-000 |
| | | 6.0 | 10 | 8.0 | CMM-6.0 | T2040001060-000 |
| | | 10 | 7 | 8.0 | CMM-10 | T2040001100-000 |
| **CMF/Female**<br> | 40A Female crimp contacts<br>  | 1.5 | 16 | 8.0 | CMF-1.5 | T2040002015-000 |
| | | 2.5 | 14 | 8.0 | CMF-2.5 | T2040002025-000 |
| | | 4.0 | 12 | 8.0 | CMF-4.0 | T2040002040-000 |
| | | 6.0 | 10 | 8.0 | CMF-6.0 | T2040002060-000 |
| | | 10 | 7 | 8.0 | CMF-10 | T2040002100-000 |



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

# 16A/5 Poles module technical characteristics

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

## INSERTS

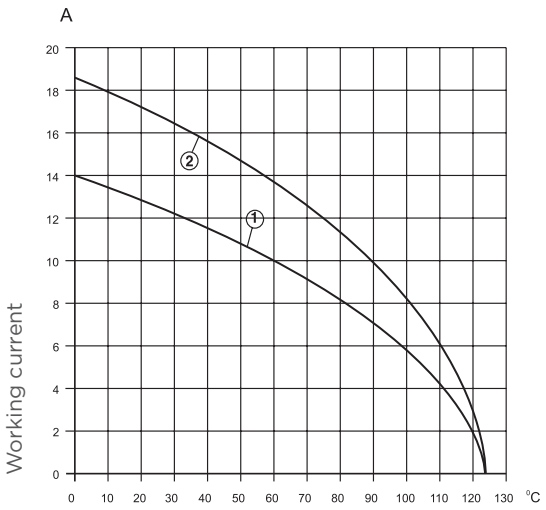
Working current ..... 16A max
(See current carrying capacity)
Working voltage ..... 400V
Test voltage urms ..... 6KV
Pollution degree ..... 3
Insulation resistance ..... $\geq 10^{10}\Omega$
Material ..... Polycarbonate
Temperature range ..... -40°C... +125°C
Flammability acc. to UL94 ..... V0
Working 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 ..... ≤3mΩ
Terminal ..... Spring terminal
- $mm^2$ ..... 0.5-2.5$mm^2$
- 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.




Ambient temperature

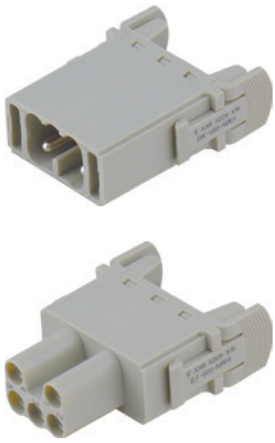
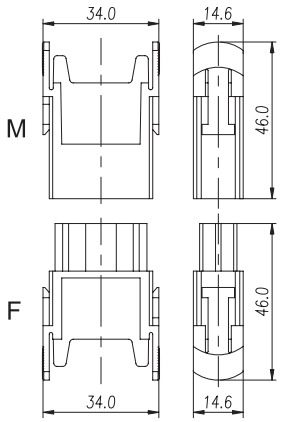
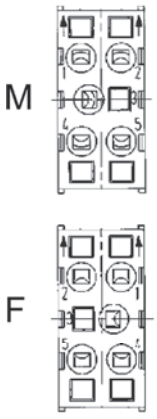
1 H24B hood/housing with 6 modules; wire gauge: 2.5$mm^2$
2 H24B hood/housing with 6 modules; wire gauge: 1.5$mm^2$

## 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 | T2110052101-000 | |
|  | | HMN-005-FS | | T2110052201-000 |
| Contact arrangement view from termination side | | | | |
|  | | | | |



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

# 16A/6 Poles module technical characteristics

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

## INSERTS

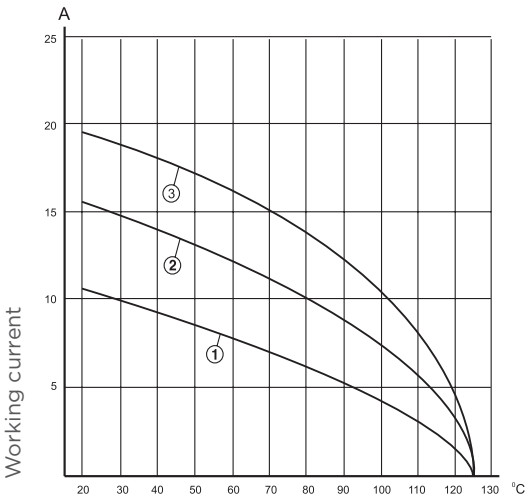
Working current ..... 16A max
(See current carrying capacity)
Working voltage ..... 500/830V
Test voltage urms
HMN-006-M/F ..... 6KV
HMN-006-PM/F ..... 8KV
Pollution degree ..... 3
Insulation resistance ..... $\geq 10^{10}\Omega$
Material ..... Polycarbonate
Temperature range ..... -40°C... +125°C
Flammability 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 ..... ≤1mΩ
Terminal ..... Crimp terminal
- $mm^2$ ..... 0.14-4.0$mm^2$
- 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.



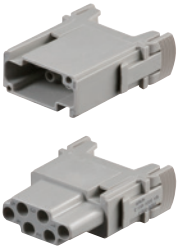
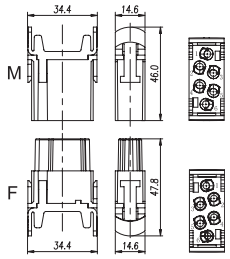
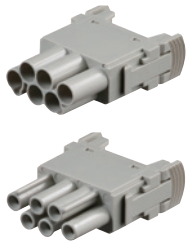
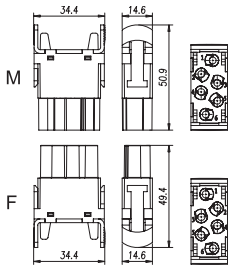

Ambient temperature

1 H24B hood/housing with 6 modules; wire gauge: 1.5$mm^2$
2 H24B hood/housing with 6 modules; wire gauge: 2.5$mm^2$
2 H24B hood/housing with 6 modules; wire gauge: 4$mm^2$

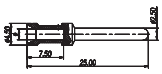
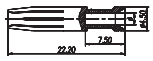
## HMN-006 module inserts

### 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 | T2111062101-000 | |
| | | HMN-006-F | | T2111062201-000 |
| 830V Max. 16A  |   | HMN-006-PM | T2111063101-000 | |
| | | HMN-006-PF | | T2111063201-000 |

### 16A Contact

| Tech data<br>**Material:**<br>copper alloy<br>**Contact resistance:** ≤1mΩ<br>**Terminal:**<br>crimp connection | 16A Male crimp contacts  | Wire gauge | | Strip-ping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|---|---|---|---|---|---|---|
| | | mm² | AWG | mm | Type | Part Number | Type | Part Number |
| **CEM/Male** | | 0.14-0.37 | 26-22 | 7.5 | CEM-0.3 | T2030001002-000 | DEM-0.3 | T2030011002-000 |
| | | 0.5 | 20 | 7.5 | CEM-0.5 | T2030001005-000 | DEM-0.5 | T2030011005-000 |
| | | 0.75 | 18 | 7.5 | CEM-0.75 | T2030001008-000 | DEM-0.75 | T2030011008-000 |
| | | 1.0 | 18 | 7.5 | CEM-1.0 | T2030001010-000 | DEM-1.0 | T2030011010-000 |
| | | 1.5 | 16 | 7.5 | CEM-1.5 | T2030001015-000 | DEM-1.5 | T2030011015-000 |
| | | 2.5 | 14 | 7.5 | CEM-2.5 | T2030001025-000 | DEM-2.5 | T2030011025-000 |
| | | 4.0 | 12 | 7.5 | CEM-4.0 | T2030001040-000 | DEM-4.0 | T2030011040-000 |
| **CEF/Female** | 16A Female crimp contacts  | 0.14-0.37 | 26-22 | 7.5 | CEF-0.3 | T2030002002-000 | DEF-0.3 | T2030012002-000 |
| | | 0.5 | 20 | 7.5 | CEF-0.5 | T2030002005-000 | DEF-0.5 | T2030012005-000 |
| | | 0.75 | 18 | 7.5 | CEF-0.75 | T2030002008-000 | DEF-0.75 | T2030012008-000 |
| | | 1.0 | 18 | 7.5 | CEF-1.0 | T2030002010-000 | DEF-1.0 | T2030012010-000 |
| | | 1.5 | 16 | 7.5 | CEF-1.5 | T2030002015-000 | DEF-1.5 | T2030012015-000 |
| | | 2.5 | 14 | 7.5 | CEF-2.5 | T2030002025-000 | DEF-2.5 | T2030012025-000 |
| | | 4.0 | 12 | 7.5 | CEF-4.0 | T2030002040-000 | DEF-4.0 | T2030012040-000 |



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

# 16A/8 Poles module technical characteristics

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

## INSERTS

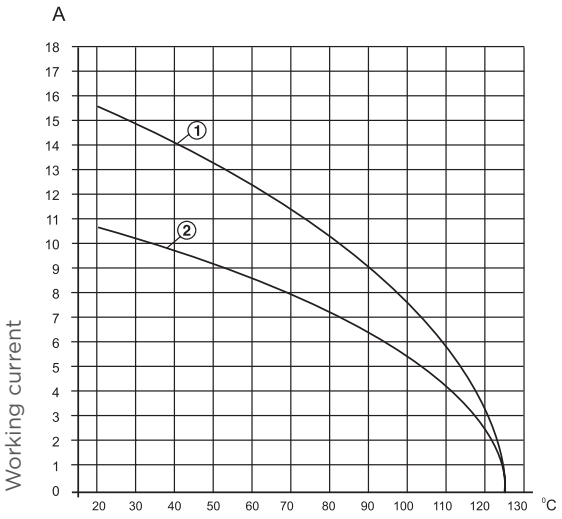
Working current ..... 16A max
(See current carrying capacity)
Working voltage ..... 400V
Test voltage urms ..... 6KV
Pollution degree ..... 3
Insulation resistance ..... $\geq 10^{10}\Omega$
Material ..... Polycarbonate
Temperature range ..... -40°C... +125°C
Flammability acc. to UL94 ..... V0
Working 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 ..... ≤1mΩ
Terminal ..... Crimp terminal
- $mm^2$ ..... 0.14-4.0$mm^2$
- 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.



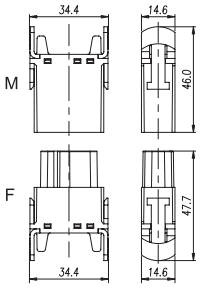
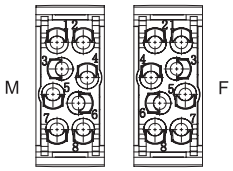

1 H24B hood/housing with 6 modules; wire gauge: 2.5$mm^2$
2 H24B hood/housing with 6 modules; wire gauge: 1.5$mm^2$

## 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 | T2111082101-000 | |
| | | HMN-008-F | | T2111082201-000 |
| Contact arrangement view from termination side | | | | |
|  | | | | |

### 16A Contact

| Tech data<br>**Material:**<br>copper alloy<br>**Contact resistance:** ≤1mΩ<br>**Terminal:**<br>crimp connection | 16A Male crimp contacts | Wire gauge | | Strip-ping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|---|---|---|---|---|---|---|
| | | mm² | AWG | mm | Type | Part Number | Type | Part Number |
| | | 0.14-0.37 | 26-22 | 7.5 | CEM-0.3 | T2030001002-000 | DEM-0.3 | T2030011002-000 |
| | | 0.5 | 20 | 7.5 | CEM-0.5 | T2030001005-000 | DEM-0.5 | T2030011005-000 |
| | | 0.75 | 18 | 7.5 | CEM-0.75 | T2030001008-000 | DEM-0.75 | T2030011008-000 |
| | | 1.0 | 18 | 7.5 | CEM-1.0 | T2030001010-000 | DEM-1.0 | T2030011010-000 |
| | | 1.5 | 16 | 7.5 | CEM-1.5 | T2030001015-000 | DEM-1.5 | T2030011015-000 |
| | | 2.5 | 14 | 7.5 | CEM-2.5 | T2030001025-000 | DEM-2.5 | T2030011025-000 |
| | | 4.0 | 12 | 7.5 | CEM-4.0 | T2030001040-000 | DEM-4.0 | T2030011040-000 |
| **CEF/Female** | **16A Female crimp contacts** | 0.14-0.37 | 26-22 | 7.5 | CEF-0.3 | T2030002002-000 | DEF-0.3 | T2030012002-000 |
| | | 0.5 | 20 | 7.5 | CEF-0.5 | T2030002005-000 | DEF-0.5 | T2030012005-000 |
| | | 0.75 | 18 | 7.5 | CEF-0.75 | T2030002008-000 | DEF-0.75 | T2030012008-000 |
| | | 1.0 | 18 | 7.5 | CEF-1.0 | T2030002010-000 | DEF-1.0 | T2030012010-000 |
| | | 1.5 | 16 | 7.5 | CEF-1.5 | T2030002015-000 | DEF-1.5 | T2030012015-000 |
| | | 2.5 | 14 | 7.5 | CEF-2.5 | T2030002025-000 | DEF-2.5 | T2030012025-000 |
| | | 4.0 | 12 | 7.5 | CEF-4.0 | T2030002040-000 | DEF-4.0 | T2030012040-000 |



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

# 10A/12 Poles module technical characteristics

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

## INSERTS

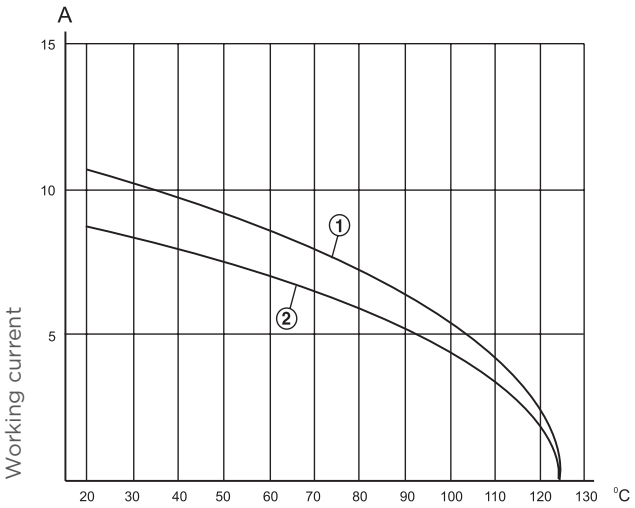
Working current ..... 10A max
(See current carrying capacity)
Working voltage ..... 250V
Test voltage urms ..... 4KV
Pollution degree ..... 3
Insulation resistance ..... $\geq 10^{10}\Omega$
Material ..... Polycarbonate
Temperature range ..... -40°C... +125°C
Flammability acc. to UL94 ..... V0
Working 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 ..... ≤3mΩ
Terminal ..... Crimp terminal
- $mm^2$ ..... 0.14-2.5$mm^2$
- 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.



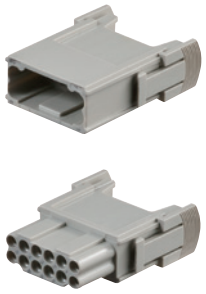
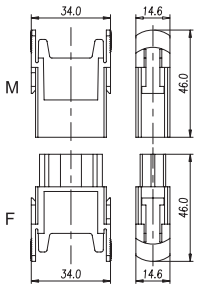
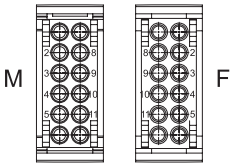

1 H24B hood/housing with 6 modules; wire gauge: 1.5$mm^2$
2 H24B hood/housing with 6 modules; wire gauge: 1.0$mm^2$

## HMN-012 module inserts

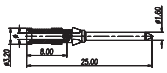
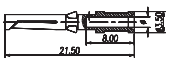
CRIMP TERMINAL

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 | T2111122101-000 | |
| | | HMN-012-F | | T2111122201-000 |
| Contact arrangement view from termination side | | | | |
|  | | | | |

### 10A Contact

| Tech data<br>**Material:**<br>copper alloy<br>**Contact resistance:** ≤3mΩ<br>**Terminal:**<br>crimp connection | 10A Male crimp contacts | Wire gauge | | Stripping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|---|---|---|---|---|---|---|
| | | mm² | AWG | mm | Type | Part Number | Type | Part Number |
| **CDM/Male** |  | 0.14-0.37 | 26-22 | 8.0 | CDM-0.14 | T2020001002-000 | DDM-0.14 | T2020011002-000 |
| | | 0.5 | 20 | 8.0 | CDM-0.5 | T2020001005-000 | DDM-0.5 | T2020011005-000 |
| | | 0.75 | 18 | 8.0 | CDM-0.75 | T2020001008-000 | DDM-0.75 | T2020011008-000 |
| | | 1.0 | 18 | 8.0 | CDM-1.0 | T2020001010-000 | DDM-1.0 | T2020011010-000 |
| | | 1.5 | 16 | 8.0 | CDM-1.5 | T2020001015-000 | DDM-1.5 | T2020011015-000 |
| | | 2.5 | 14 | 6.0 | CDM-2.5 | T2020001025-000 | DDM-2.5 | T2020011025-000 |
| **CDF/Female** | 10A Female crimp contacts  | 0.14-0.37 | 26-22 | 8.0 | CDF-0.14 | T2020002002-000 | DDF-0.14 | T2020012002-000 |
| | | 0.5 | 20 | 8.0 | CDF-0.5 | T2020002005-000 | DDF-0.5 | T2020012005-000 |
| | | 0.75 | 18 | 8.0 | CDF-0.75 | T2020002008-000 | DDF-0.75 | T2020012008-000 |
| | | 1.0 | 18 | 8.0 | CDF-1.0 | T2020002010-000 | DDF-1.0 | T2020012010-000 |
| | | 1.5 | 16 | 8.0 | CDF-1.5 | T2020002015-000 | DDF-1.5 | T2020012015-000 |
| | | 2.5 | 14 | 6.0 | CDF-2.5 | T2020002025-000 | DDF-2.5 | T2020012025-000 |



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

# 10A/17 Poles module technical characteristics

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

## INSERTS

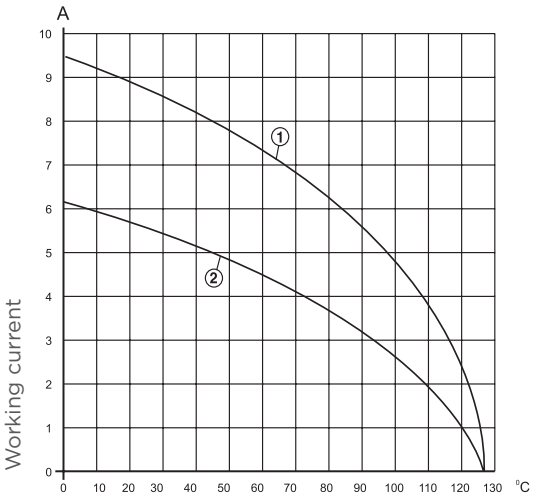
Working current ..... 10A max
(See current carrying capacity)
Working voltage ..... 160V
Test voltage urms ..... 2.5KV
Pollution degree ..... 3
Pollution degree acc. to TUV ..... 2
Insulation resistance ..... ≥$10^{10}\Omega$
Material ..... Polycarbonate
Temperature range ..... -40°C... +125°C
Flammability 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 ..... ≤3mΩ
Terminal ..... Crimp terminal
- $mm^2$ ..... 0.14-2.5$mm^2$
- 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.




Ambient temperature

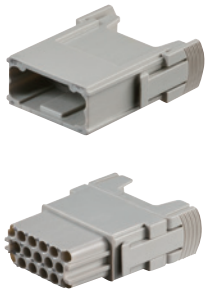
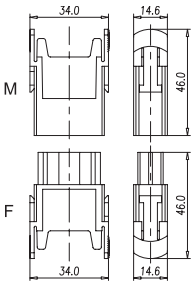
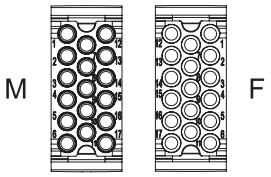
1 H24B hood/housing with 6 modules; wire gauge: 1.5$mm^2$
2 H24B hood/housing with 6 modules; wire gauge: 1.0$mm^2$

## HMN-017 module inserts

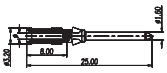
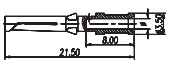
CRIMP TERMINAL

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 | T2111172101-000 | |
| | | HMN-017-F | | T2111172201-000 |
| Contact arrangement view from termination side | | | | |
|   | | | | |

### 10A Contact

| Tech data<br>**Material:**<br>copper alloy<br>**Contact resistance:** ≤3mΩ<br>**Terminal:**<br>crimp connection | 10A Male crimp contacts  | Wire gauge | | Stripping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|---|---|---|---|---|---|---|
| | | mm² | AWG | mm | Type | Part Number | Type | Part Number |
| **CDM/Male** | | 0.14-0.37 | 26-22 | 8.0 | CDM-0.14 | T2020001002-000 | DDM-0.14 | T2020011002-000 |
| | | 0.5 | 20 | 8.0 | CDM-0.5 | T2020001005-000 | DDM-0.5 | T2020011005-000 |
| | | 0.75 | 18 | 8.0 | CDM-0.75 | T2020001008-000 | DDM-0.75 | T2020011008-000 |
| | | 1.0 | 18 | 8.0 | CDM-1.0 | T2020001010-000 | DDM-1.0 | T2020011010-000 |
| | | 1.5 | 16 | 8.0 | CDM-1.5 | T2020001015-000 | DDM-1.5 | T2020011015-000 |
| | | 2.5 | 14 | 6.0 | CDM-2.5 | T2020001025-000 | DDM-2.5 | T2020011025-000 |
| **CDF/Female** | 10A Female crimp contacts  | 0.14-0.37 | 26-22 | 8.0 | CDF-0.14 | T2020002002-000 | DDF-0.14 | T2020012002-000 |
| | | 0.5 | 20 | 8.0 | CDF-0.5 | T2020002005-000 | DDF-0.5 | T2020012005-000 |
| | | 0.75 | 18 | 8.0 | CDF-0.75 | T2020002008-000 | DDF-0.75 | T2020012008-000 |
| | | 1.0 | 18 | 8.0 | CDF-1.0 | T2020002010-000 | DDF-1.0 | T2020012010-000 |
| | | 1.5 | 16 | 8.0 | CDF-1.5 | T2020002015-000 | DDF-1.5 | T2020012015-000 |
| | | 2.5 | 14 | 6.0 | CDF-2.5 | T2020002025-000 | DDF-2.5 | T2020012025-000 |



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

# 16A/20 Poles module technical characteristics

Specifications ..... DIN EN 60 664-1
..... DIN EN 61 984
Number of contacts ..... 20 poles

## INSERTS

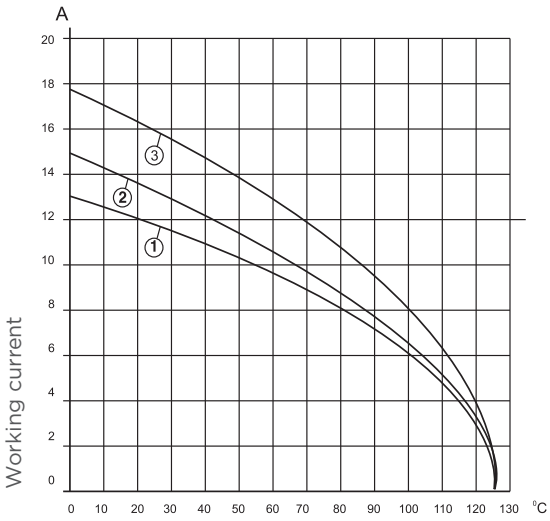
Working current ..... 16A max
(See current carrying capacity)
Working voltage ..... 500V
Test voltage urms ..... 6KV
Pollution degree ..... 3
Insulation resistance ..... $\geq 10^{10}\Omega$
Material ..... Polycarbonate
Temperature range ..... -40°C... +125°C
Flammability acc. to UL94 ..... V0
Working 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 ..... ≤1mΩ
Terminal ..... Crimp terminal
- $mm^2$ ..... 0.14-4.0$mm^2$
- 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.



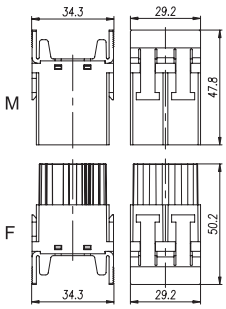
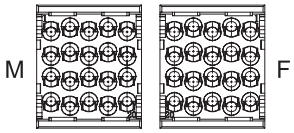

1 H24B hood/housing with 3 modules; wire gauge: 1.5$mm^2$
2 H24B hood/housing with 3 modules; wire gauge: 2.5$mm^2$
3 H24B hood/housing with 3 modules; wire gauge: 4$mm^2$

## HMN-020 module inserts

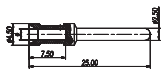
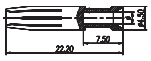
CRIMP TERMINAL

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 | T2111202101-000 | |
| | | HMN-020-F | | T2111202201-000 |
| Contact arrangement view from termination side | | | | |
|   | | | | |

### 16A Contact

| Tech data<br>**Material:**<br>copper alloy<br>**Contact resistance:** ≤1mΩ<br>**Terminal:**<br>crimp connection | 16A Male crimp contacts  | Wire gauge | | Strip-ping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|---|---|---|---|---|---|---|
| | | mm² | AWG | mm | Type | Part Number | Type | Part Number |
| **CEM/Male** | | 0.14-0.37 | 26-22 | 7.5 | CEM-0.3 | T2030001002-000 | DEM-0.3 | T2030011002-000 |
| | | 0.5 | 20 | 7.5 | CEM-0.5 | T2030001005-000 | DEM-0.5 | T2030011005-000 |
| | | 0.75 | 18 | 7.5 | CEM-0.75 | T2030001008-000 | DEM-0.75 | T2030011008-000 |
| | | 1.0 | 18 | 7.5 | CEM-1.0 | T2030001010-000 | DEM-1.0 | T2030011010-000 |
| | | 1.5 | 16 | 7.5 | CEM-1.5 | T2030001015-000 | DEM-1.5 | T2030011015-000 |
| | | 2.5 | 14 | 7.5 | CEM-2.5 | T2030001025-000 | DEM-2.5 | T2030011025-000 |
| | | 4.0 | 12 | 7.5 | CEM-4.0 | T2030001040-000 | DEM-4.0 | T2030011040-000 |
| **CEF/Female** | 16A Female crimp contacts  | 0.14-0.37 | 26-22 | 7.5 | CEF-0.3 | T2030002002-000 | DEF-0.3 | T2030012002-000 |
| | | 0.5 | 20 | 7.5 | CEF-0.5 | T2030002005-000 | DEF-0.5 | T2030012005-000 |
| | | 0.75 | 18 | 7.5 | CEF-0.75 | T2030002008-000 | DEF-0.75 | T2030012008-000 |
| | | 1.0 | 18 | 7.5 | CEF-1.0 | T2030002010-000 | DEF-1.0 | T2030012010-000 |
| | | 1.5 | 16 | 7.5 | CEF-1.5 | T2030002015-000 | DEF-1.5 | T2030012015-000 |
| | | 2.5 | 14 | 7.5 | CEF-2.5 | T2030002025-000 | DEF-2.5 | T2030012025-000 |
| | | 4.0 | 12 | 7.5 | CEF-4.0 | T2030002040-000 | DEF-4.0 | T2030012040-000 |



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

# 5A/25 Poles module technical characteristics

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

## INSERTS

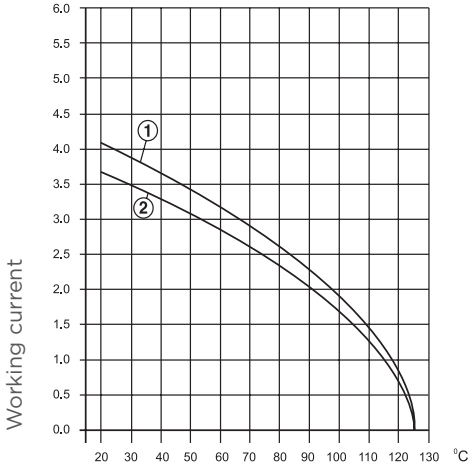
Working current ..... 5A max
(See current carrying capacity)
Working voltage ..... 50V
Test voltage urms ..... 0.8KV
Pollution degree ..... 3
Insulation resistance ..... $\geq 10^{10}\Omega$
Material ..... Polycarbonate
Temperature range ..... -40°C... +125°C
Flammability acc. to UL94 ..... V0
Mechanical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

## CONTACTS

Material ..... Copper alloy
Surface ..... Hard silver-plated
..... Hard gold-plated
Contact resistance ..... ≤1mΩ
Terminal ..... Crimp terminal
- $mm^2$ ..... 0.08-0.52$mm^2$
- 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.




Ambient temperature

Turned contacts
1 H24B hood/housing with 6 modules; wire gauge: 0.5$mm^2$

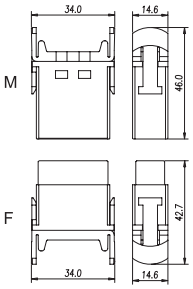
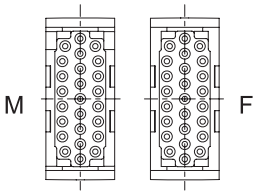
Stamped contacts
2 H24B hood/housing with 6 modules; wire gauge: 0.5$mm^2$

## HMN-025 module inserts

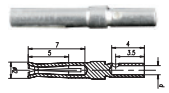
CRIMP TERMINAL

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 | T2111252101-000 | |
| | | HMN-025-F | | T2111252201-000 |
| Contact arrangement view from termination side | | | | |
|   | | | | |

### 5A Contact

| Male | | Wire gauge | | Strip-ping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|---|---|---|---|---|---|---|
| | | mm² | AWG | mm | Type | Part Number | Type | Part Number |
| | | 0.08-0.21 | 28-24 | 5.0 | CAM-08 | T2070001008-000 | DAM-08 | T2070011008-000 |
| | | 0.13-0.33 | 26-22 | 5.0 | CAM-13 | T2070001013-000 | DAM-13 | T2070011013-000 |
| | | 0.33-0.52 | 22-20 | 5.0 | CAM-33 | T2070001033-000 | DAM-33 | T2070011033-000 |
| Female |  | 0.08-0.21 | 28-24 | 5.0 | CAF-08 | T2070002008-000 | DAF-08 | T2070012008-000 |
| | | 0.13-0.33 | 26-22 | 5.0 | CAF-13 | T2070002013-000 | DAF-13 | T2070012013-000 |
| | | 0.33-0.52 | 22-20 | 5.0 | CAF-33 | T2070002033-000 | DAF-33 | T2070012033-000 |



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

# 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 ..... ≤1mΩ
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

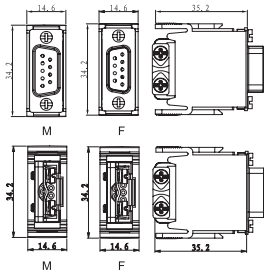
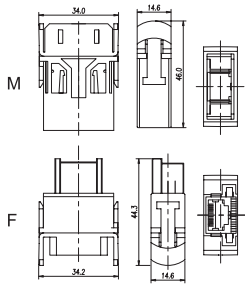
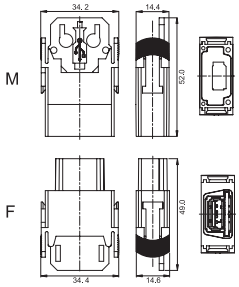
Material ..... Polycarbonate
Temperature range ..... -40°C... +70°C
Flammability acc. to UL94 ..... V0
Stranded wire diameter ..... 0.89-0.99mm
Wire gauge ..... AWG24-26

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 | T2111092101-000 | |
| | | HMN-009-F | | T2111092201-000 |
| |  | HMN-RJ45-MC | T2113000101-100 | |
| | | HMN-RJ45-F | | T2113000201-000 |
| |  | HMN-USB-M | T2114000101-000 | |
| | | HMN-USB-F | | T2114000201-000 |



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

## Quint module technical characteristics

Specifications ..... DIN EN 60 664-1
..... DIN EN 61 984

### INSERTS

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

### QUINT CONTACTS

Number of contacts
- Quint 1 + shielding
- Quint 4 + shielding
- High Density Quint 8 + shielding

Working current
- Quint 1 ..... 16A max
- Quint 4 ..... 10A 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 ..... ≥ $10^{10}$ Ω
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 ..... ≤3mΩ
Terminal ..... Crimp terminal
- $mm^2$
- Quint 1 ..... 0.14-4$mm^2$
- Quint 4 ..... 0.14-2.5$mm^2$
- Quint 8 ..... 0.08-0.52$mm^2$
- AWG
- Quint 1 ..... 26-12
- Quint 4 ..... 26-14
- Quint 8 ..... 28-20

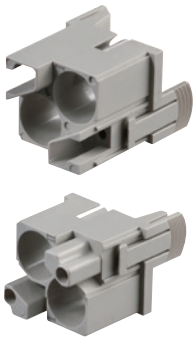
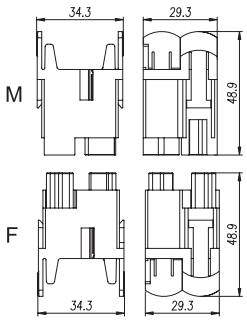
### CURRENT CARRYING CAPACITY

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.

## Quint module inserts

### CRIMP TERMINAL

2 Poles

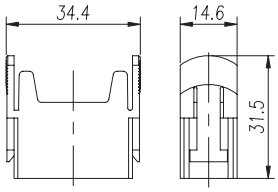
| Dimensions (mm) | | Type | Part Number | |
|---|---|---|---|---|
| | | | Male insert | Female insert |
| Crimp terminal (Order crimp contacts separately) | Size chart | | | |
|  |  | HMN-Q1-M | T2111027101-000 | |
| | | HMN-Q1-F | | T2111027201-000 |
| | | HMN-Q2-M | T2111027101-001 | |
| | | HMN-Q2-F | | T2111027201-001 |
| | | HMN-Q3-M | T2111027101-002 | |
| | | HMN-Q3-F | | T2111027201-002 |
| **Quint 1-pos** | | | | |
| For 16A crimp contacts | | | | |
| | | PIN-Q1-M | T2580011154-000 | |
| | | PIN-Q1-F | | T2580012154-000 |
| **Quint 4-pos** | | | | |
| For 10A crimp contacts | | | | |
| | | PIN-Q2-M | T2580031154-000 | |
| | | PIN-Q2-F | | T2580032154-000 |
| **Quint 8-pos** | | | | |
| For D-Sub crimp contacts | | | | |
| | | PIN-Q3-M | T2580081154-000 | |
| | | PIN-Q3-F | | T2580082154-000 |



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

## Dummy module inserts

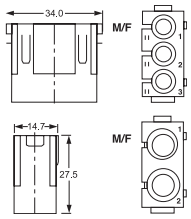
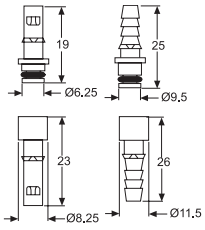
1

| Dimensions (mm) | | Type | Part Number | |
|---|---|---|---|---|
| | | | Male insert | Female insert |
| | Size chart | | | |
| |   | HMN-DM | T3110009902-000 | |

## HMN-P2, P3 module for pneumatic contacts

### PNEUMATIC CONTACTS, MODULAR UNITS, WITH 2 OR 3 SEATS

P2, P3

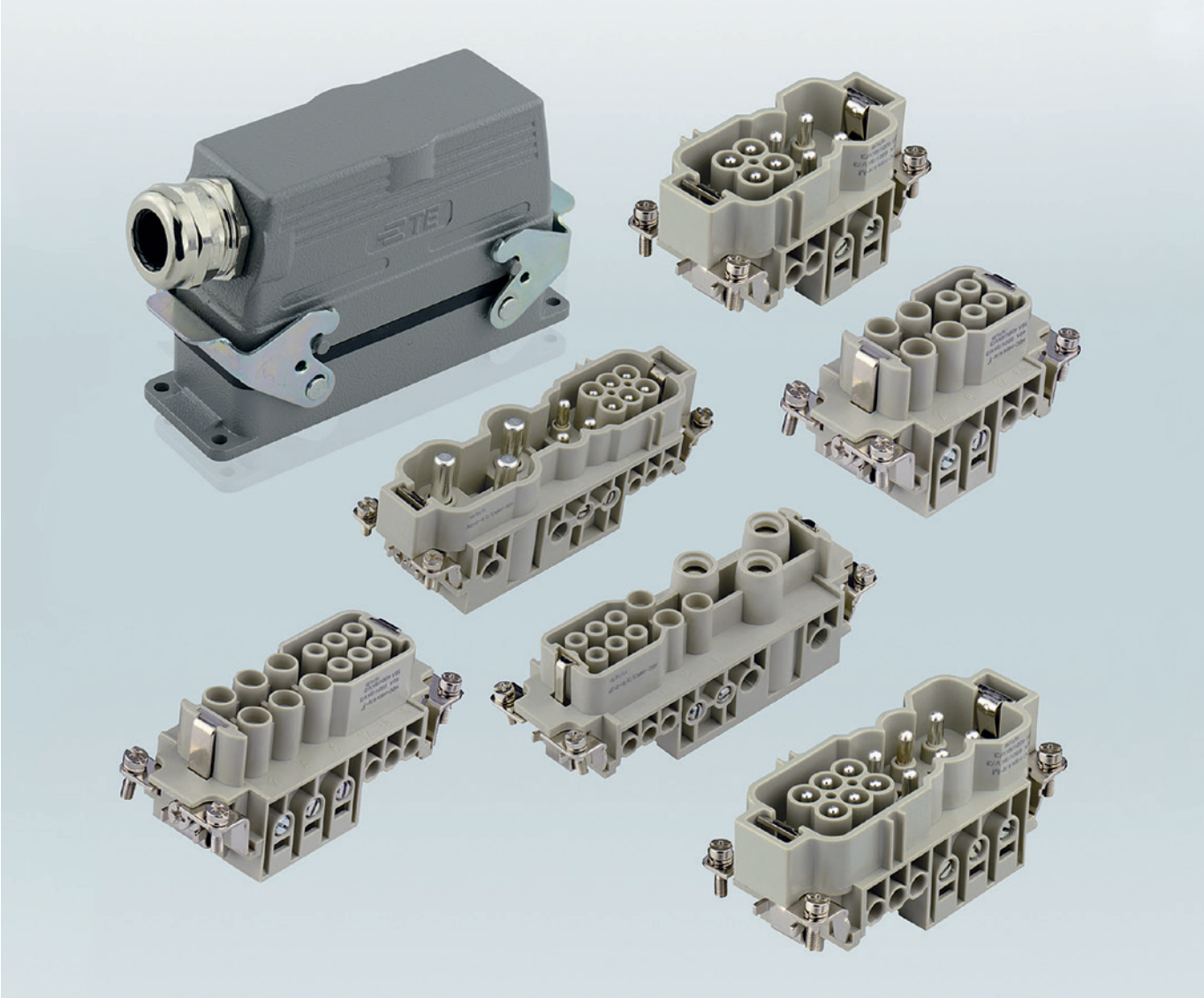
| Dimensions (mm) | | Type | Part Number | |
|---|---|---|---|---|
| | | | Male insert | Female insert |
| | Contact arrangement view from termination side | | | |
| |   | HMN-PA3 | T2111032301-000 | |
| | | HMN-PA2 | T2111022301-000 | |
| Pneumatic contacts with or without closing valve | | | | |
| |   | | | |
| **Male contacts without closing valve** | | | | |
| For tubes with internal ø 1.6mm (For HMN P3 module) | | Pneu-c-M1.6 | T2090002101-001 | |
| For tubes with internal ø 3.0mm (For HMN P3 module) | | Pneu-c-M3.0 | T2090002101-002 | |
| For tubes with internal ø 4.0mm (For HMN P3 module) | | Pneu-c-M4.0 | T2090002101-003 | |
| For tubes with internal ø 6.0mm (For HMN P2 module) | | Pneu-c-M6.0 | T2090002101-004 | |
| **Female contacts without closing valve** | | | | |
| For tubes with internal ø 1.6mm (For HMN P3 module) | | Pneu-c-F1.6 | | T2090002201-001 |
| For tubes with internál ø 3.0mm (For HMN P3 module) | | Pneu-c-F3.0 | | T2090002201-002 |
| For tubes with internal ø 4.0mm (For HMN P3 module) | | Pneu-c-F4.0 | | T2090002201-003 |
| For tubes with internal ø 6.0mm (For HMN P2 module) | | Pneu-c-F6.0 | | T2090002201-004 |
| **Female contacts with closing valve** | | | | |
| For tubes with internal ø 1.6mm (For HMN P3 module) | | Pneu-c-Fw1.6 | | T2090012201-001 |
| For tubes with internál ø 3.0mm (For HMN P3 module) | | Pneu-c-Fw3.0 | | T2090012201-002 |
| For tubes with internal ø 4.0mm (For HMN P3 module) | | Pneu-c-Fw4.0 | | T2090012201-003 |
| For tubes with internal ø 6.0mm (For HMN P3 module) | | Pneu-c-Fw6.0 | | T2090012201-004 |
| **Male contacts (use contacts without closing valve)** | | | | |



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

## 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



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

# HK8/24 technical characteristics

Specifications ..... DIN EN 60 664-1
..... DIN EN 61 984
Number of contacts ..... 8/24 + PE

## INSERTS

Rated current
Power contact ..... 16A max
Signal contact..... 10A max
Working voltage
Power contact
Conductor - ground ..... 230V
Conductor - conductor ..... 400V
Signal contact..... 160V
Test voltage urms
Power contact ..... 4KV
Signal contact..... 2.5KV
Pollution degree ..... 2
Insulation resistance ..... ≥$10^{10}\Omega$
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 ..... ≤3mΩ
Terminal ..... Crimp terminal
- $mm^2$
Power contact ..... 0.15-4.0$mm^2$
Signal contact..... 0.15-2.5$mm^2$
- 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

## CURRENT CARRYING CAPACITY

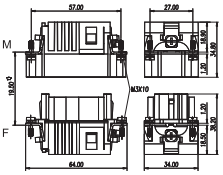
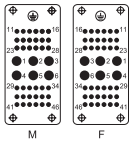
The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals. Control and test procedures according to DIN IEC 60512-3.

## HK8/24 inserts

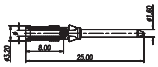
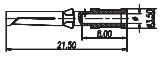
INSERTS FOR H10B HOOD/HOUSING

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

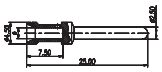
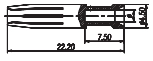
8/24+ ⏚

| Dimensions (mm) | | Type | Part Number | |
|---|---|---|---|---|
| | | | Male insert | Female insert |
| Crimp terminal (Order crimp contacts separately) | | | | |
| |  | HK8/24-032-M | T2100322101-000 | |
| | | HK8/24-032-F | | T2100322201-000 |
| Contact arrangement view from termination side | | | | |
|  | | | | |

### 10A Contact

| Tech data<br>**Material:**<br>copper alloy<br>**Contact resistance:** ≤3mΩ<br>**Terminal:**<br>crimp connection<br>**CDM/Male**<br> | 10A Male crimp contacts<br>  | Wire gauge | | Stripping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|---|---|---|---|---|---|---|
| | | mm² | AWG | mm | Type | Part Number | Type | Part Number |
| | | 0.14-0.37 | 26-22 | 8.0 | CDM-0.14 | T2020001002-000 | DDM-0.14 | T2020011002-000 |
| | | 0.5 | 20 | 8.0 | CDM-0.5 | T2020001005-000 | DDM-0.5 | T2020011005-000 |
| | | 0.75 | 18 | 8.0 | CDM-0.75 | T2020001008-000 | DDM-0.75 | T2020011008-000 |
| | | 1.0 | 18 | 8.0 | CDM-1.0 | T2020001010-000 | DDM-1.0 | T2020011010-000 |
| | | 1.5 | 16 | 8.0 | CDM-1.5 | T2020001015-000 | DDM-1.5 | T2020011015-000 |
| | | 2.5 | 14 | 6.0 | CDM-2.5 | T2020001025-000 | DDM-2.5 | T2020011025-000 |
| **CDF/Female**<br> | 10A Female crimp contacts<br>  | 0.14-0.37 | 26-22 | 8.0 | CDF-0.14 | T2020002002-000 | DDF-0.14 | T2020012002-000 |
| | | 0.5 | 20 | 8.0 | CDF-0.5 | T2020002005-000 | DDF-0.5 | T2020012005-000 |
| | | 0.75 | 18 | 8.0 | CDF-0.75 | T2020002008-000 | DDF-0.75 | T2020012008-000 |
| | | 1.0 | 18 | 8.0 | CDF-1.0 | T2020002010-000 | DDF-1.0 | T2020012010-000 |
| | | 1.5 | 16 | 8.0 | CDF-1.5 | T2020002015-000 | DDF-1.5 | T2020012015-000 |
| | | 2.5 | 14 | 6.0 | CDF-2.5 | T2020002025-000 | DDF-2.5 | T2020012025-000 |

### 16A Contact

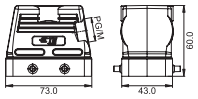
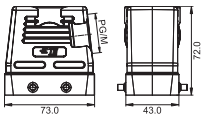
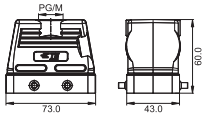
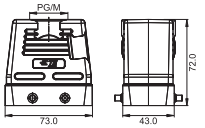
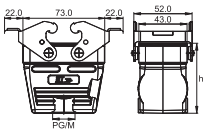
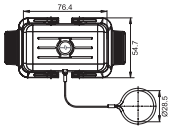
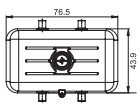
| Tech data<br>**Material:**<br>copper alloy<br>**Contact resistance:** ≤1mΩ<br>**Terminal:**<br>crimp connection<br>**CEM/Male**<br> | 16A Male crimp contacts<br>  | Wire gauge | | Stripping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|---|---|---|---|---|---|---|
| | | mm² | AWG | mm | Type | Part Number | Type | Part Number |
| | | 0.14-0.37 | 26-22 | 7.5 | CEM-0.3 | T2030001002-000 | DEM-0.3 | T2030011002-000 |
| | | 0.5 | 20 | 7.5 | CEM-0.5 | T2030001005-000 | DEM-0.5 | T2030011005-000 |
| | | 0.75 | 18 | 7.5 | CEM-0.75 | T2030001008-000 | DEM-0.75 | T2030011008-000 |
| | | 1.0 | 18 | 7.5 | CEM-1.0 | T2030001010-000 | DEM-1.0 | T2030011010-000 |
| | | 1.5 | 16 | 7.5 | CEM-1.5 | T2030001015-000 | DEM-1.5 | T2030011015-000 |
| | | 2.5 | 14 | 7.5 | CEM-2.5 | T2030001025-000 | DEM-2.5 | T2030011025-000 |
| | | 4.0 | 12 | 7.5 | CEM-4.0 | T2030001040-000 | DEM-4.0 | T2030011040-000 |
| **CEF/Female**<br> | 16A Female crimp contacts<br>  | 0.14-0.37 | 26-22 | 7.5 | CEF-0.3 | T2030002002-000 | DEF-0.3 | T2030012002-000 |
| | | 0.5 | 20 | 7.5 | CEF-0.5 | T2030002005-000 | DEF-0.5 | T2030012005-000 |
| | | 0.75 | 18 | 7.5 | CEF-0.75 | T2030002008-000 | DEF-0.75 | T2030012008-000 |
| | | 1.0 | 18 | 7.5 | CEF-1.0 | T2030002010-000 | DEF-1.0 | T2030012010-000 |
| | | 1.5 | 16 | 7.5 | CEF-1.5 | T2030002015-000 | DEF-1.5 | T2030012015-000 |
| | | 2.5 | 14 | 7.5 | CEF-2.5 | T2030002025-000 | DEF-2.5 | T2030012025-000 |
| | | 4.0 | 12 | 7.5 | CEF-4.0 | T2030002040-000 | DEF-4.0 | T2030012040-000 |



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

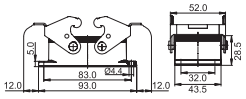
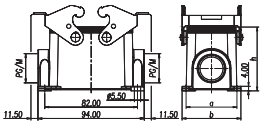
## H10B with 2 levers on the hoods/housings

POWDER-COATED, RAL 7037

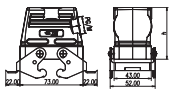
| Dimensions (mm) | | Metr. | PG | Type | Part Number |
|---|---|---|---|---|---|
| Hood: Side entry | | | | | |
| | Low construction   | M20<br>M25 | PG16<br>PG21 | H10B-TS-PG16<br>H10B-TS-PG21<br>H10B-TS-M20<br>H10B-TS-M25 | T1210100116-000<br>T1210100121-000<br>T1210100120-000<br>T1210100125-000 |
| | High construction   | M20<br>M25<br>M32 | PG21<br>PG29 | H10B-TSH-PG21<br>H10B-TSH-PG29<br>H10B-TSH-M20<br>H10B-TSH-M25<br>H10B-TSH-M32 | T1230100121-000<br>T1230100129-000<br>T1230100120-000<br>T1230100125-000<br>T1230100132-000 |
| Hood: Top entry | | | | | |
| | Low construction   | M20<br>M25 | PG16<br>PG21 | H10B-TG-PG16<br>H10B-TG-PG21<br>H10B-TG-M20<br>H10B-TG-M25 | T1220100116-000<br>T1220100121-000<br>T1220100120-000<br>T1220100125-000 |
| | High construction   | M20<br>M25<br>M32 | PG21<br>PG29 | H10B-TGH-PG21<br>H10B-TGH-PG29<br>H10B-TGH-M20<br>H10B-TGH-M25<br>H10B-TGH-M32 | T1240100121-000<br>T1240100129-000<br>T1240100120-000<br>T1240100125-000<br>T1240100132-000 |
| Cable-to-cable hood | | | | | |
| |   Low construction High construction | M20<br>M25<br><br>M25<br>M32 | PG16<br><br>PG21<br>PG29 | H10B-TBFS-PG16<br>H10B-TBFS-M20<br>H10B-TBFS-M25<br>H10B-TBFHS-PG21<br>H10B-TBFHS-PG29<br>H10B-TBFHS-M25<br>H10B-TBFHS-M32 | T1710101116-000<br>T1710101120-000<br>T1710101125-000<br>T1750101121-000<br>T1750101129-000<br>T1750101125-000<br>T1750101132-000 |
| Protection covers for hoods | | | | | |
| |   | | | H10B-KDTP | T1010101400-000 |
| Housing protection cover | | | | | |
| |   | | | H10B-KDBP | T1010102100-000 |

## H10B with 2 levers on the hoods/housings

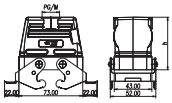
### POWDER-COATED, RAL 7037

| Dimensions (mm) | Metr. | PG | Type | Part Number |
|---|---|---|---|---|
| **Bulkhead mounted** | | | | |
|  | | | H10B-AGS | T1410101000-000 |
| **Surface mounted: Side entry** | | | | |
|  1 Side entry, Low construction; 2 Side entry, 1 Side entry, High construction; 2 Side entry | M20<br>M25<br><br><br>M20<br>M25<br><br><br>M25<br>M32<br><br><br>M25<br>M32 | PG16<br>PG21<br><br><br>PG16<br>PG21<br><br><br>PG21<br>PG29<br><br><br>PG21<br>PG29<br><br><br>M25<br>M32 | H10B-SGRS-PG16<br>H10B-SGRS-PG21<br>H10B-SGRS-M20<br>H10B-SGRS-M25<br>H10B-SGRS-2PG16<br>H10B-SGRS-2PG21<br>H10B-SGRS-2M20<br>H10B-SGRS-2M25<br>H10B-SGRHS-PG21<br>H10B-SGRHS-PG29<br>H10B-SGRHS-M25<br>H10B-SGRHS-M32<br>H10B-SGRHS-2PG21<br>H10B-SGRHS-2PG29<br>H10B-SGRHS-2M25<br>H10B-SGRHS-2M32 | T1440101116-000<br>T1440101121-000<br>T1440101120-000<br>T1440101125-000<br>T1440101216-000<br>T1440101221-000<br>T1440101220-000<br>T1440101225-000<br>T1470101121-000<br>T1470101129-000<br>T1470101125-000<br>T1470101132-000<br>T1470101221-000<br>T1470101229-000<br>T1470101225-000<br>T1470101232-000 |

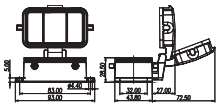
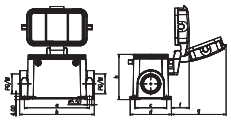
| Construction | A | B | H |
|---|---|---|---|
| Low | 40 | 52 | 56 |
| Hight | 45 | 57 | 74 |

| | | | |
|---|---|---|---|
| **Side entry housing with two levers** | | | |
|  Low construction; High construction | M20<br>M25<br><br><br>M25<br>M32 | PG16<br>PG21<br><br><br>PG21<br>PG29 | H10B-TSBS-PG16<br>H10B-TSBS-PG21<br>H10B-TSBS-M20<br>H10B-TSBS-M25<br>H10B-TSBHS-PG21<br>H10B-TSBHS-PG29<br>H10B-TSBHS-M25<br>H10B-TSBHS-M32 | T1250103116-000<br>T1250103121-000<br>T1250103120-000<br>T1250103125-000<br>T1270103121-000<br>T1270103129-000<br>T1270103125-000<br>T1270103132-000 |

| Construction | H |
|---|---|
| Low | 60 |
| Hight | 72 |

| | | | |
|---|---|---|---|
| **Top entry housing with two levers** | | | |
|  Low construction; High construction | M20<br>M25<br><br><br>M25<br>M32 | PG16<br>PG21<br><br><br>PG21<br>PG29 | H10B-TGBS-PG16<br>H10B-TGBS-PG21<br>H10B-TGBS-M20<br>H10B-TGBS-M25<br>H10B-TGBHS-PG21<br>H10B-TGBHS-PG29<br>H10B-TGBHS-M25<br>H10B-TGBHS-M32 | T1260103116-000<br>T1260103121-000<br>T1260103120-000<br>T1260103125-000<br>T1280103121-000<br>T1280103129-000<br>T1280103125-000<br>T1280103132-000 |

| Construction | H |
|---|---|
| Low | 60 |
| Hight | 72 |

| | | | |
|---|---|---|---|
| **Bulkhead mounted with 4 bolts** | | | |
| With protection cover  1 Side entry, Low construction; 2 Side entry | | H10B-AD-BO | T1430100000-000 |
|  1 Side entry, High construction; 2 Side entry | M20<br>M25<br><br><br>M20<br>M25<br><br><br>M25<br>M32<br><br><br>M25<br>M32 | PG16<br>PG21<br><br><br>PG16<br>PG21<br><br><br>PG21<br>PG29<br><br><br>PG21<br>PG29<br><br><br>M25<br>M32 | H10B-SDR-BO-PG16<br>H10B-SDR-BO-PG21<br>H10B-SDR-BO-M20<br>H10B-SDR-BO-M25<br>H10B-SDR-BO-2PG16<br>H10B-SDR-BO-2PG21<br>H10B-SDR-BO-2M20<br>H10B-SDR-BO-2M25<br>H10B-SDRH-BO-PG21<br>H10B-SDRH-BO-PG29<br>H10B-SDRH-BO-M25<br>H10B-SDRH-BO-M32<br>H10B-SDRH-BO-2PG21<br>H10B-SDRH-BO-2PG29<br>H10B-SDRH-BO-2M25<br>H10B-SDRH-BO-2M32 | T1460100116-000<br>T1460100121-000<br>T1460100120-000<br>T1460100125-000<br>T1460100216-000<br>T1460100221-000<br>T1460100220-000<br>T1460100225-000<br>T1490100121-000<br>T1490100129-000<br>T1490100125-000<br>T1490100132-000<br>T1490100221-000<br>T1490100229-000<br>T1490100225-000<br>T1490100232-000 |

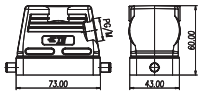
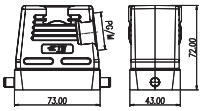
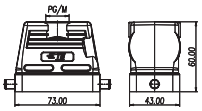
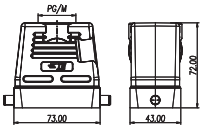
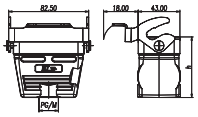
| Construction | A | B | C | D | F | G | H |
|---|---|---|---|---|---|---|---|
| Low | 82 | 94 | 40 | 52 | 22 | 67 | 54 |
| Hight | 82 | 94 | 45 | 57 | 20 | 65 | 74 |



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

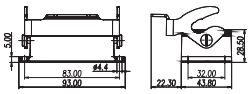
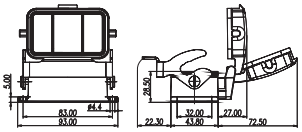
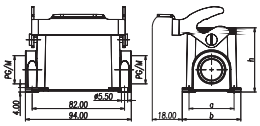
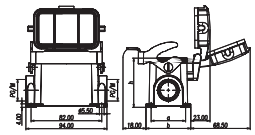
## H10B with 1 lever on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | | Metr. | PG | Type | Part Number |
|---|---|---|---|---|---|
| Hood: Side entry | | | | | |
| | Low construction  | M20<br>M25 | PG16<br>PG21 | H10B-TS-RO-PG16<br>H10B-TS-RO-PG21<br>H10B-TS-RO-M20<br>H10B-TS-RO-M25 | T1310100116-000<br>T1310100121-000<br>T1310100120-000<br>T1310100125-000 |
| | High construction  | M20<br>M25<br>M32 | PG21<br>PG29 | H10B-TSH-RO-PG21<br>H10B-TSH-RO-PG29<br>H10B-TSH-RO-M20<br>H10B-TSH-RO-M25<br>H10B-TSH-RO-M32 | T1330100121-000<br>T1330100129-000<br>T1330100120-000<br>T1330100125-000<br>T1330100132-000 |
| Hood: Top entry | | | | | |
| | Low construction  | M20<br>M25 | PG16<br>PG21 | H10B-TG-RO-PG16<br>H10B-TG-RO-PG21<br>H10B-TG-RO-M20<br>H10B-TG-RO-M25 | T1320100116-000<br>T1320100121-000<br>T1320100120-000<br>T1320100125-000 |
| | High construction  | M20<br>M25<br>M32 | PG21<br>PG29 | H10B-TGH-RO-PG21<br>H10B-TGH-RO-PG29<br>H10B-TGH-RO-M20<br>H10B-TGH-RO-M25<br>H10B-TGH-RO-M32 | T1340100121-000<br>T1340100129-000<br>T1340100120-000<br>T1340100125-000<br>T1340100132-000 |
| Cable-to-cable hood | | | | | |
| |  Low construction High construction<br>Construction \| H<br>Low \| 62.5<br>Hight \| 74.5 | M20<br>M25<br><br>M25<br>M32 | PG16<br><br>PG21<br>PG29 | H10B-TBF-LB-PG16<br>H10B-TBF-LB-M20<br>H10B-TBF-LB-M25<br>H10B-TBFH-LB-PG21<br>H10B-TBFH-LB-PG29<br>H10B-TBFH-LB-M25<br>H10B-TBFH-LB-M32 | T1730103116-000<br>T1730103120-000<br>T1730103125-000<br>T1770103121-000<br>T1770103129-000<br>T1770103125-000<br>T1770103132-000 |
| Protection covers for hoods | | | | | |
| | | | | H10B-KDTP-LB | T1010101500-000 |

## H10B with 1 lever on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | Metr. | PG | Type | Part Number |
|---|---|---|---|---|
| **Bulkhead mounted** | | | | |
|  | | | H10B-AG-LB | T1500103000-000 |
| With protection cover  | | | H10B-AD-LB<br>H10B-ADM-LB | T1510103000-000<br>T1510103001-000 |
| **Surface mounted: Side entry** | | | | |
|  1 Side entry Low construction 2 Side entry 1 Side entry High construction 2 Side entry | M20<br>M25<br><br><br>M20<br>M25<br><br><br>M25<br>M32<br><br><br>M25<br>M32 | PG16<br>PG21<br><br><br>PG16<br>PG21<br><br><br>PG21<br>PG29<br><br><br>PG21<br>PG29<br><br><br> | H10B-SGR-LB-PG16<br>H10B-SGR-LB-PG21<br>H10B-SGR-LB-M20<br>H10B-SGR-LB-M25<br>H10B-SGR-LB-2PG16<br>H10B-SGR-LB-2PG21<br>H10B-SGR-LB-2M20<br>H10B-SGR-LB-2M25<br>H10B-SGRH-LB-PG21<br>H10B-SGRH-LB-PG29<br>H10B-SGRH-LB-M25<br>H10B-SGRH-LB-M32<br>H10B-SGRH-LB-2PG21<br>H10B-SGRH-LB-2PG29<br>H10B-SGRH-LB-2M25<br>H10B-SGRH-LB-2M32 | T1610103116-000<br>T1610103121-000<br>T1610103120-000<br>T1610103125-000<br>T1610103216-000<br>T1610103221-000<br>T1610103220-000<br>T1610103225-000<br>T1650103121-000<br>T1650103129-000<br>T1650103125-000<br>T1650103132-000<br>T1650103221-000<br>T1650103229-000<br>T1650103225-000<br>T1650103232-000 |
| With protection cover  1 Side entry Low construction 2 Side entry 1 Side entry High construction 2 Side entry | M20<br>M25<br><br><br>M20<br>M25<br><br><br>M25<br>M32<br><br><br>M25<br>M32 | PG16<br>PG21<br><br><br>PG16<br>PG21<br><br><br>PG21<br>PG29<br><br><br>PG21<br>PG29<br><br><br> | H10B-SDR-LB-PG16<br>H10B-SDR-LB-PG21<br>H10B-SDR-LB-M20<br>H10B-SDR-LB-M25<br>H10B-SDR-LB-2PG16<br>H10B-SDR-LB-2PG21<br>H10B-SDR-LB-2M20<br>H10B-SDR-LB-2M25<br>H10B-SDRH-LB-PG21<br>H10B-SDRH-LB-PG29<br>H10B-SDRH-LB-M25<br>H10B-SDRH-LB-M32<br>H10B-SDRH-LB-2PG21<br>H10B-SDRH-LB-2PG29<br>H10B-SDRH-LB-2M25<br>H10B-SDRH-LB-2M32 | T1620103116-000<br>T1620103121-000<br>T1620103120-000<br>T1620103125-000<br>T1620103216-000<br>T1620103221-000<br>T1620103220-000<br>T1620103225-000<br>T1660103121-000<br>T1660103129-000<br>T1660103125-000<br>T1660103132-000<br>T1660103221-000<br>T1660103229-000<br>T1660103225-000<br>T1660103232-000 |

| Construction | A | B | H |
|---|---|---|---|
| Low | 40 | 52 | 54 |
| Hight | 45 | 57 | 74 |

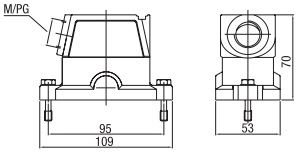
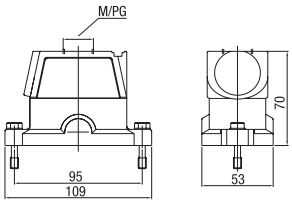
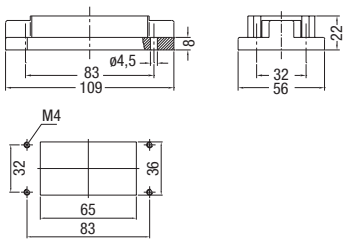


All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

## 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

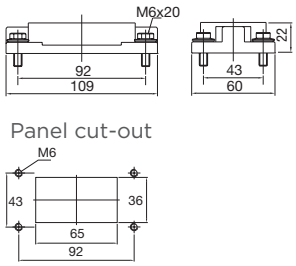
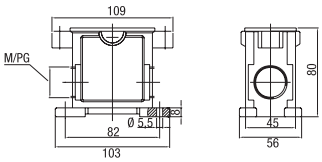
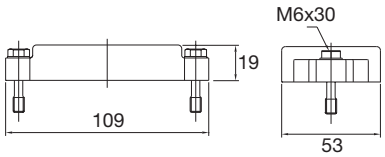
**Pressure-tight up to 5 bar** **IP 68 / IP 69 K**

| Description | | Metr. | PG | Type | Part Number |
|---|---|---|---|---|---|
| **Hood:** Side entry, Standard construction | | | | | |
| |  | | | **HIP** | |
| | | | 16 | HIP.10/24.STS.1.16.G | 1-1102640-5 |
| | | | 21 | HIP.10/24.STS.1.21.G | 1-1102642-5 |
| | | M25 | | HIP.10/24.STS.1.M25.G | 0-1106436-2 |
| | | | | **HIP-K** | |
| | | | 21 | HIP-K.10/24.STS.1.21.G | 2-1102642-5 |
| | | M25 | | HIP-K.10/24.STS.1.M25.G | 0-1106436-4 |
| | | M32 | | HIP-K.10/24.STS.1.M32.G | 0-1106436-6 |
| | | | | **EMV-K** | |
| | | | 21 | EMV-K.10/24.STS.1.21.G | 4-1102714-5 |
| | | M25 | | EMV-K.10/24.STS.1.M25.G | 0-1106427-3 |
| | | M32 | | EMV-K.10/24.STS.1.M32.G | 1-1106427-0 |
| **Hood:** Top entry | | | | | |
| |  | | | **HIP** | |
| | | | 16 | HIP.10/24.STO.1.16.G | 1-1102644-5 |
| | | | 21 | HIP.10/24.STO.1.21.G | 1-1102646-5 |
| | | M25 | | HIP.10/24.STO.1.M25.G | 0-1106436-1 |
| | | | | **HIP-K** | |
| | | | 16 | HIP-K.10/24.STO.1.16.G | 2-1102644-5 |
| | | M25 | | HIP-K.10/24.STO.1.M25.G | 0-1106436-3 |
| | | M32 | | HIP-K.10/24.STO.1.M32.G | 0-1106436-5 |
| | | | | **EMV-K** | |
| | | | 21 | EMV-K.10/24.STO.1.21.G | 4-1102715-5 |
| | | M25 | | EMV-K.10/24.STO.1.M25.G | 0-1106427-4 |
| **Surface mounted housing:** Bottom entry | | | | | |
| |  | | | **HIP**<br>HIP.10/24.AG | 1-1102647-5 |
| | | | | **HIP-K**<br>HIP-K.10/24.AG | 2-1102647-5 |
| | | | | **EMV-K**<br>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**<br>HIP.10/24.AG.M6<br><br>**HIP-K**<br>HIP-K.10/24.AG.M6<br><br>**EMV-K**<br>EMV-K.10/24.AG.M6 | <br>1-1102612-5<br><br><br>2-1102612-5<br><br><br>4-1102720-5 |
| **Surface mounted housing:** Side entry | | | | | |
| |  | 2xM32<br><br><br><br><br><br><br><br>2xM32 | <br>21<br>2x21<br><br><br><br>21<br>2x21<br><br>21<br>2x21 | **HIP**<br>HIP.10/24.SG.1.21.G<br>HIP.10/24.SG.2.21.G<br>HIP.10/24.SG.2.M32.G<br><br>**HIP-K**<br>HIP-K.10/24.SG.1.21.G<br>HIP-K.10/24.SG.2.21.G<br><br>**EMV-K**<br>EMV-K.10/24.SG.1.21.G<br>EMV-K.10/24.SG.2.21.G<br>EMV-K.10/24.SG.2.M32.G | <br>1-1102610-5<br>1-1102611-5<br>0-1106435-1<br><br><br>5-1102610-5<br>2-1102611-5<br><br><br>5-1102716-5<br>4-1102717-5<br>0-1106426-2 |
| **Protective covers for hoods and housing** | | | | | |
| |  | | | **HIP**<br>HIP/EMV.10/24.SKB<br><br>**HIP-K/EMV-K**<br>HIP-K/EMV-K.10/24.SKB | <br>3-1106202-5<br><br><br>4-1106202-5 |



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

# HWK 6/6 technical characteristics

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

## INSERTS

Rated current
Power contact ..... 40A max
Signal contact ..... 16A max
Working voltage
Power contact ..... 690V
Signal contact..... 400V
Test voltage urms
Power contact ..... 6KV
Signal contact..... 4KV
Pollution degree ..... 3
Insulation resistance ..... ≥$10^{10}\Omega$
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 ..... ≤0.3mΩ
Signal contact..... ≤1mΩ
Terminal ..... Screw terminal
- $mm^2$
Power contact ..... 2.5-10$mm^2$
Signal contact..... 0.5-2.5$mm^2$
- 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

## CURRENT CARRYING CAPACITY

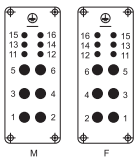
The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals. Control and test procedures according to DIN IEC 60512-3.

## HWK 6/6 inserts

POWER 690V/35A SIGNAL 400V/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 | T2106062101-000 | |
| | | HWK6/6-012-F | | T2106062201-000 |



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

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

## CONTACTS

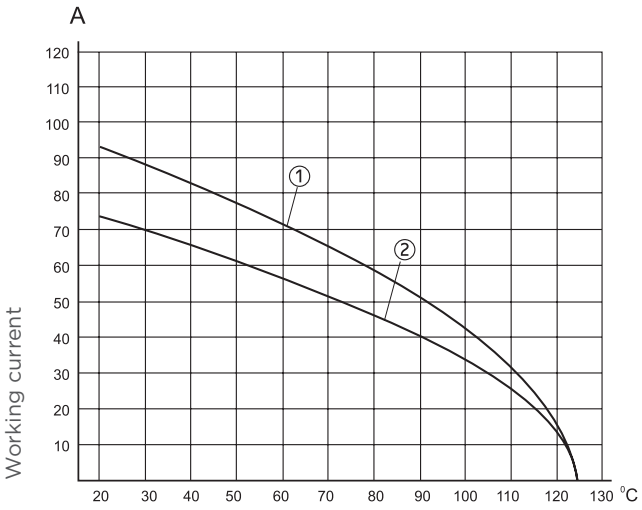
Material ..... Copper alloy
Surface ..... Hard silver-plated
..... Hard gold-plated
Contact resistance
Power contact ..... ≤0.3mΩ
Signal contact ..... ≤1mΩ
Terminal ..... Screw terminal
- $mm^2$
Power contact ..... 1.5-16$mm^2$
Signal contact ..... 0.5-2.5$mm^2$
- AWG
Power contact ..... 16-6
Signal 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.



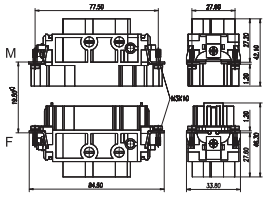
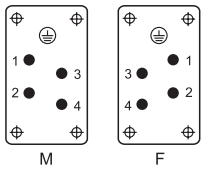

1 Wire gauge: 16$mm^2$
2 Wire gauge: 10$mm^2$

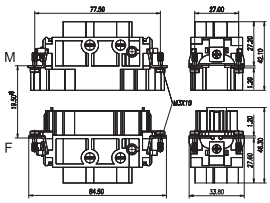
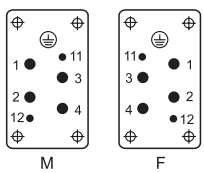
## HK4/0, HK4/2 inserts

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 | T2100042101-000 | |
| | | HK4/0-004-F | | T2100042201-000 |
| Contact arrangement view from termination side | | | | |
|  | | | | |

| Dimensions (mm) | | Type | Part Number | |
|---|---|---|---|---|
| | | | Male insert | Female insert |
| Screw terminal | Size chart | | | |
| |  | HK4/2-006-M | T2100062101-000 | |
| | | HK4/2-006-F | | T2100062201-000 |
| Contact arrangement view from termination side | | | | |
|  | | | | |



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

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

## CONTACTS

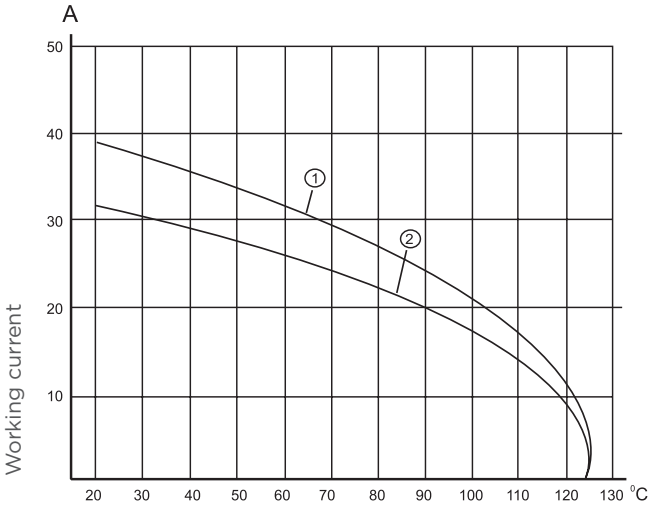
Material ..... Copper alloy
Surface ..... Hard silver-plated
..... Hard gold-plated
Contact resistance
Power contact ..... ≤0.3mΩ
Signal contact ..... ≤3mΩ
Terminal ..... Crimp terminal
- $mm^2$
Power contact ..... 1-6$mm^2$
Signal contact ..... 0.14-2.5$mm^2$
- AWG
Power contact ..... 18-10
Signal contact ..... 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.




Ambient temperature  Wire gauge: 1.5 $mm^2$

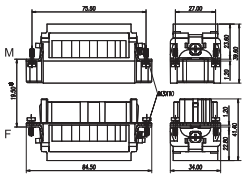
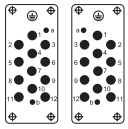
1 Wire gauge: 6.0$mm^2$
2 Wire gauge: 4.0$mm^2$

## HK12/2 inserts

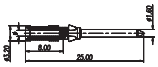
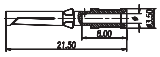
INSERT FOR H16B HOOD/HOUSING

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

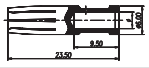
12/2+⏚

| Dimensions (mm) | | Type | Part Number | |
|---|---|---|---|---|
| | | | Male insert | Female insert |
| Crimp terminal (Order crimp contacts separately) | Size chart | | | |
| |  | HK12/2-014-M | T2120142101-000 | |
| | | HK12/2-014-F | | T2120142201-000 |
| Contact arrangement view from termination side | | | | |
|  | | | | |

### 10A Contact

| Tech data<br>**Material:**<br>copper alloy<br>**Contact resistance:** ≤3mΩ<br>**Terminal:**<br>crimp connection<br>**CDM/Male** | 10A Male crimp contacts | Wire gauge | | Strip-ping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|---|---|---|---|---|---|---|
| | | mm² | AWG | mm | Type | Part Number | Type | Part Number |
| |  | 0.14-0.37 | 26-22 | 8.0 | CDM-0.14 | T2020001002-000 | DDM-0.14 | T2020011002-000 |
| | | 0.5 | 20 | 8.0 | CDM-0.5 | T2020001005-000 | DDM-0.5 | T2020011005-000 |
| | | 0.75 | 18 | 8.0 | CDM-0.75 | T2020001008-000 | DDM-0.75 | T2020011008-000 |
| | | 1.0 | 18 | 8.0 | CDM-1.0 | T2020001010-000 | DDM-1.0 | T2020011010-000 |
| | | 1.5 | 16 | 8.0 | CDM-1.5 | T2020001015-000 | DDM-1.5 | T2020011015-000 |
| | | 2.5 | 14 | 6.0 | CDM-2.5 | T2020001025-000 | DDM-2.5 | T2020011025-000 |
| **CDF/Female**<br> | **10A Female crimp contacts**<br>  | 0.14-0.37 | 26-22 | 8.0 | CDF-0.14 | T2020002002-000 | DDF-0.14 | T2020012002-000 |
| | | 0.5 | 20 | 8.0 | CDF-0.5 | T2020002005-000 | DDF-0.5 | T2020012005-000 |
| | | 0.75 | 18 | 8.0 | CDF-0.75 | T2020002008-000 | DDF-0.75 | T2020012008-000 |
| | | 1.0 | 18 | 8.0 | CDF-1.0 | T2020002010-000 | DDF-1.0 | T2020012010-000 |
| | | 1.5 | 16 | 8.0 | CDF-1.5 | T2020002015-000 | DDF-1.5 | T2020012015-000 |
| | | 2.5 | 14 | 6.0 | CDF-2.5 | T2020002025-000 | DDF-2.5 | T2020012025-000 |

### 40A Contact

| Tech data<br>**Material:**<br>copper alloy<br>**Contact resistance:** ≤0.3mΩ<br>**Terminal:**<br>crimp connection<br>**CMM/Male** | 40A Male crimp contacts | Wire gauge | | Stripping length | Crimp contacts, silver-plated | |
|---|---|---|---|---|---|---|
| | | mm² | AWG | mm | Type | Part Number |
| | | 1.5 | 16 | 8.0 | CMM-1.5 | T2040001015-000 |
| | | 2.5 | 14 | 8.0 | CMM-2.5 | T2040001025-000 |
| | | 4.0 | 12 | 8.0 | CMM-4.0 | T2040001040-000 |
| | | 6.0 | 10 | 8.0 | CMM-6.0 | T2040001060-000 |
| **CMF/Female**<br> | **40A Female crimp contacts**<br>  | 1.5 | 16 | 8.0 | CMF-1.5 | T2040002015-000 |
| | | 2.5 | 14 | 8.0 | CMF-2.5 | T2040002025-000 |
| | | 4.0 | 12 | 8.0 | CMF-4.0 | T2040002040-000 |
| | | 6.0 | 10 | 8.0 | CMF-6.0 | T2040002060-000 |
| | | 10 | 7 | 8.0 | CMF-10 | T2040002100-000 |



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

# 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 ..... ≥$10^{10}\Omega$
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

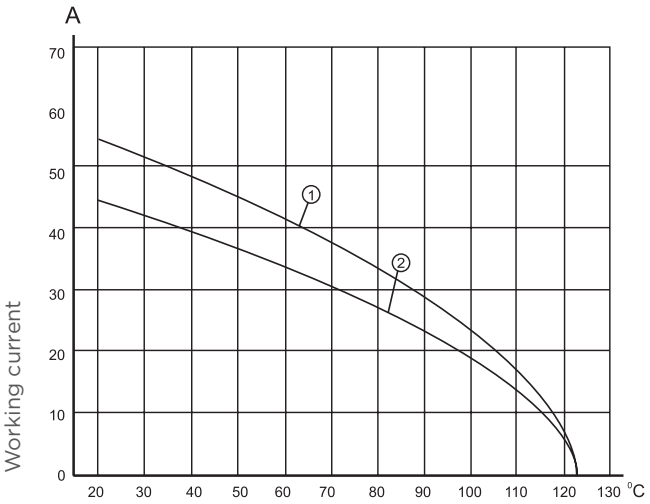
Material ..... Copper alloy
Surface ..... Hard silver-plated
..... Hard gold-plated
Contact resistance
Power contact ..... ≤0.3mΩ
Signal contact ..... ≤3mΩ
Terminal ..... Crimp terminal
- $mm^2$
Power contact ..... 1-6$mm^2$
Signal contact ..... 0.14-2.5$mm^2$
- AWG
Power contact ..... 18-10
Signal contact ..... 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.



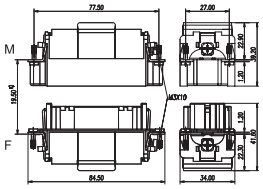
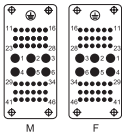

1 Wire gauge: 6.0$mm^2$
2 Wire gauge: 4.0$mm^2$

## HK6/36 inserts

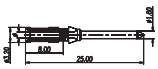
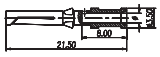
INSERT FOR H16B HOOD/HOUSING

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

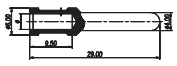
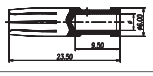
6/36+⏚

| Dimensions (mm) | | Type | Part Number | |
|---|---|---|---|---|
| | | | Male insert | Female insert |
| Crimp terminal (Order crimp contacts separately) | Size chart | | | |
| |  | HK6/36-042-M | T2120422101-000 | |
| | | HK6/36-042-F | | T2120422201-000 |
| Contact arrangement view from termination side | | | | |
|  | | | | |

### 10A Contact

| Tech data<br>**Material:**<br>copper alloy<br>**Contact resistance:** ≤3mΩ<br>**Terminal:**<br>crimp connection<br>**CDM/Male** | 10A Male crimp contacts | Wire gauge | | Stripping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|---|---|---|---|---|---|---|
| | | mm² | AWG | mm | Type | Part Number | Type | Part Number |
| |  | 0.14-0.37<br>0.5<br>0.75<br>1.0<br>1.5<br>2.5 | 26-22<br>20<br>18<br>18<br>16<br>14 | 8.0<br>8.0<br>8.0<br>8.0<br>8.0<br>6.0 | CDM-0.14<br>CDM-0.5<br>CDM-0.75<br>CDM-1.0<br>CDM-1.5<br>CDM-2.5 | T2020001002-000<br>T2020001005-000<br>T2020001008-000<br>T2020001010-000<br>T2020001015-000<br>T2020001025-000 | DDM-0.14<br>DDM-0.5<br>DDM-0.75<br>DDM-1.0<br>DDM-1.5<br>DDM-2.5 | T2020011002-000<br>T2020011005-000<br>T2020011008-000<br>T2020011010-000<br>T2020011015-000<br>T2020011025-000 |
| **CDF/Female**<br> | **10A Female crimp contacts**<br>  | 0.14-0.37<br>0.5<br>0.75<br>1.0<br>1.5<br>2.5 | 26-22<br>20<br>18<br>18<br>16<br>14 | 8.0<br>8.0<br>8.0<br>8.0<br>8.0<br>6.0 | CDF-0.14<br>CDF-0.5<br>CDF-0.75<br>CDF-1.0<br>CDF-1.5<br>CDF-2.5 | T2020002002-000<br>T2020002005-000<br>T2020002008-000<br>T2020002010-000<br>T2020002015-000<br>T2020002025-000 | DDF-0.14<br>DDF-0.5<br>DDF-0.75<br>DDF-1.0<br>DDF-1.5<br>DDF-2.5 | T2020012002-000<br>T2020012005-000<br>T2020012008-000<br>T2020012010-000<br>T2020012015-000<br>T2020012025-000 |

### 40A Contact

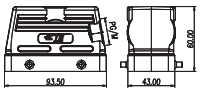
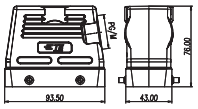
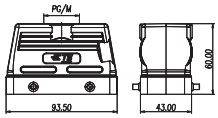
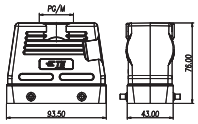
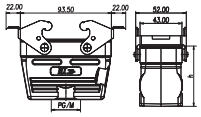
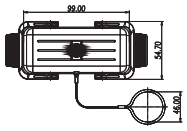
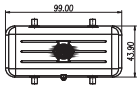
| Tech data<br>**Material:**<br>copper alloy<br>**Contact resistance:** ≤0.3mΩ<br>**Terminal:**<br>crimp connection<br>**CMM/Male** | 40A Male crimp contacts | Wire gauge | | Stripping length | Crimp contacts, silver-plated | |
|---|---|---|---|---|---|---|
| | | mm² | AWG | mm | Type | Part Number |
| |  | 1.5<br>2.5<br>4.0<br>6.0 | 16<br>14<br>12<br>10 | 8.0<br>8.0<br>8.0<br>8.0 | CMM-1.5<br>CMM-2.5<br>CMM-4.0<br>CMM-6.0 | T2040001015-000<br>T2040001025-000<br>T2040001040-000<br>T2040001060-000 |
| **CMF/Female**<br> | **40A Female crimp contacts**<br>  | 1.5<br>2.5<br>4.0<br>6.0<br>10 | 16<br>14<br>12<br>10<br>7 | 8.0<br>8.0<br>8.0<br>8.0<br>8.0 | CMF-1.5<br>CMF-2.5<br>CMF-4.0<br>CMF-6.0<br>CMF-10 | T2040002015-000<br>T2040002025-000<br>T2040002040-000<br>T2040002060-000<br>T2040002100-000 |



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

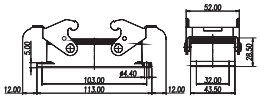
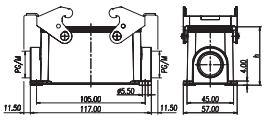
## H16B with 2 levers on the hoods/housings

POWDER-COATED, RAL 7037

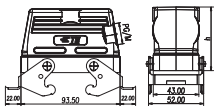
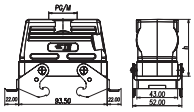
| Dimensions (mm) | | Metr. | PG | Type | Part Number |
|---|---|---|---|---|---|
| Hood: Side entry | | | | | |
| | Low construction  | M20<br>M25<br>M32 | PG16<br>PG21 | H16B-TS-PG16<br>H16B-TS-PG21<br>H16B-TS-M20<br>H16B-TS-M25<br>H16B-TS-M32 | T1210160116-000<br>T1210160121-000<br>T1210160120-000<br>T1210160125-000<br>T1210160132-000 |
| | High construction  | M25<br>M32<br>M40 | PG21<br>PG29 | H16B-TSH-PG21<br>H16B-TSH-PG29<br>H16B-TSH-M25<br>H16B-TSH-M32<br>H16B-TSH-M40 | T1230160121-000<br>T1230160129-000<br>T1230160125-000<br>T1230160132-000<br>T1230160140-000 |
| Hood: Top entry | | | | | |
| | Low construction  | M25<br>M32 | PG16<br>PG21 | H16B-TG-PG16<br>H16B-TG-PG21<br>H16B-TG-M25<br>H16B-TG-M32 | T1220160116-000<br>T1220160121-000<br>T1220160125-000<br>T1220160132-000 |
| | High construction  | M25<br>M32<br>M40 | PG21<br>PG29 | H16B-TGH-PG21<br>H16B-TGH-PG29<br>H16B-TGH-M25<br>H16B-TGH-M32<br>H16B-TGH-M40 | T1240160121-000<br>T1240160129-000<br>T1240160125-000<br>T1240160132-000<br>T1240160140-000 |
| Cable-to-cable hood | | | | | |
| |  Low construction High construction<br>Construction / H<br>Low / 62.5<br>Hight / 74.5 | M25<br>M32<br><br>M25<br>M32<br>M40 | PG21<br><br>PG21<br>PG29 | H16B-TBFS-PG21<br>H16B-TBFS-M25<br>H16B-TBFS-M32<br>H16B-TBFHS-PG21<br>H16B-TBFHS-PG29<br>H16B-TBFHS-M25<br>H16B-TBFHS-M32<br>H16B-TBFHS-M40 | T1710161121-000<br>T1710161125-000<br>T1710161132-000<br>T1750161121-000<br>T1750161129-000<br>T1750161125-000<br>T1750161132-000<br>T1750161140-000 |
| Protection covers for hoods | | | | | |
| |  | | | H16B-KDTP | T1010161400-000 |
| Housing protection cover | | | | | |
| |  | | | H16B-KDBP | T1010162100-000 |

## H16B with 2 levers on the hoods/housings

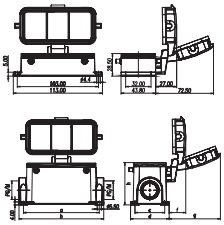
POWDER-COATED, RAL 7037

| Dimensions (mm) | Metr. | PG | Type | Part Number |
|---|---|---|---|---|
| **Bulkhead mounted** | | | | |
|  | | | H16B-AGS | T1410161000-000 |
| **Surface mounted: Side entry** | | | | |
|  1 Side entry Low construction 2 Side entry 1 Side entry High construction 2 Side entry | M25<br>M25<br>M25<br>M32<br>M25<br>M32 | PG21<br>PG21<br>PG21<br>PG29<br>PG21<br>PG29 | H16B-SGRS-PG21<br>H16B-SGRS-M25<br>H16B-SGRS-2PG21<br>H16B-SGRS-2M25<br>H16B-SGRHS-PG21<br>H16B-SGRHS-PG29<br>H16B-SGRHS-M25<br>H16B-SGRHS-M32<br>H16B-SGRHS-2PG21<br>H16B-SGRHS-2PG29<br>H16B-SGRHS-2M25<br>H16B-SGRHS-2M32 | T1440161121-000<br>T1440161125-000<br>T1440161221-000<br>T1440161225-000<br>T1470161121-000<br>T1470161129-000<br>T1470161125-000<br>T1470161132-000<br>T1470161221-000<br>T1470161229-000<br>T1470161225-000<br>T1470161232-000 |

| Construction | H |
|---|---|
| Low | 56 |
| Hight | 81 |

| **Side entry housing with two levers** | | | | |
|---|---|---|---|---|
|  Low construction High construction | M20<br>M25<br>M25<br>M32 | PG16<br>PG21<br>PG21<br>PG29 | H16B-TSBS-PG16<br>H16B-TSBS-PG21<br>H16B-TSBS-M20<br>H16B-TSBS-M25<br>H16B-TSBHS-PG21<br>H16B-TSBHS-PG29<br>H16B-TSBHS-M25<br>H16B-TSBHS-M32 | T1250163116-000<br>T1250163121-000<br>T1250163120-000<br>T1250163125-000<br>T1270163121-000<br>T1270163129-000<br>T1270163125-000<br>T1270163132-000 |
| **Top entry housing with two levers** | | | | |
|  Low construction High construction | M20<br>M25<br>M25<br>M32 | PG16<br>PG21<br>PG21<br>PG29 | H16B-TGBS-PG16<br>H16B-TGBS-PG21<br>H16B-TGBS-M20<br>H16B-TGBS-M25<br>H16B-TGBHS-PG21<br>H16B-TGBHS-PG29<br>H16B-TGBHS-M25<br>H16B-TGBHS-M32 | T1260163116-000<br>T1260163121-000<br>T1260163120-000<br>T1260163125-000<br>T1280163121-000<br>T1280163129-000<br>T1280163125-000<br>T1280163132-000 |

| Construction | H |
|---|---|
| Low | 60 |
| Hight | 76 |

| **Bulkhead mounted with 4 bolts** | | | | |
|---|---|---|---|---|
| With protection cover  1 Side entry 2 Side entry 1 Side entry Low construction High construction 2 Side entry | M25<br>M25<br>M25<br>M32<br>M25<br>M32 | | H16B-AD-BO<br>PG21<br>PG21<br>PG29<br>PG21<br>PG29 | T1430160000-000<br>H16B-SDR-BO-PG21<br>H16B-SDR-BO-M25<br>H16B-SDR-BO-2PG21<br>H16B-SDR-BO-2M25<br>H16B-SDRH-BO-PG21<br>H16B-SDRH-BO-PG29<br>H16B-SDRH-BO-M25<br>H16B-SDRH-BO-M32<br>H16B-SDRH-BO-2PG21<br>H16B-SDRH-BO-2PG29<br>H16B-SDRH-BO-2M25<br>H16B-SDRH-BO-2M32 |
| | | | | T1460160121-000<br>T1460160125-000<br>T1460160221-000<br>T1460160225-000<br>T1490160121-000<br>T1490160129-000<br>T1490160125-000<br>T1490160132-000<br>T1490160221-000<br>T1490160229-000<br>T1490160225-000<br>T1490160232-000 |

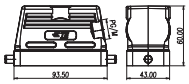
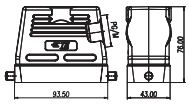
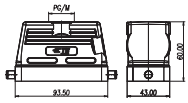
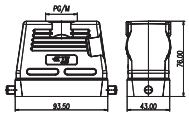
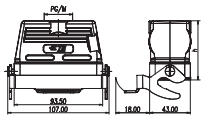
| Construction | A | B | C | D | F | G | H |
|---|---|---|---|---|---|---|---|
| Low | 105 | 117 | 45 | 57 | 20 | 65 | 56 |
| Hight | 105 | 117 | 45 | 57 | 20 | 65 | 81 |



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

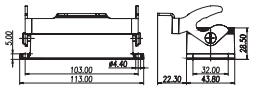
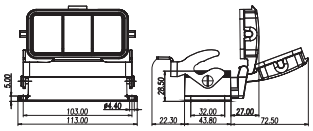
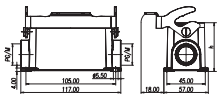
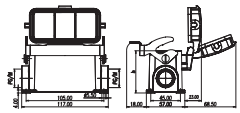
## H16B with 1 lever on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | | Metr. | PG | Type | Part Number |
|---|---|---|---|---|---|
| Hood: Side entry | | | | | |
| | Low construction  | M25<br>M32 | PG21<br>PG29 | H16B-TS-RO-PG21<br>H16B-TS-RO-PG29<br>H16B-TS-RO-M25<br>H16B-TS-RO-M32 | T1310160121-000<br>T1310160129-000<br>T1310160125-000<br>T1310160132-000 |
| | High construction  | M25<br>M32<br>M40 | PG21<br>PG29 | H16B-TSH-RO-PG21<br>H16B-TSH-RO-PG29<br>H16B-TSH-RO-M25<br>H16B-TSH-RO-M32<br>H16B-TSH-RO-M40 | T1330160121-000<br>T1330160129-000<br>T1330160125-000<br>T1330160132-000<br>T1330160140-000 |
| Hood: Top entry | | | | | |
| | Low construction  | M25<br>M32 | PG21<br>PG29 | H16B-TG-RO-PG21<br>H16B-TG-RO-PG29<br>H16B-TG-RO-M25<br>H16B-TG-RO-M32 | T1320160121-000<br>T1320160129-000<br>T1320160125-000<br>T1320160132-000 |
| | High construction  | M25<br>M32<br>M40 | PG21<br>PG29 | H16B-TGH-RO-PG21<br>H16B-TGH-RO-PG29<br>H16B-TGH-RO-M25<br>H16B-TGH-RO-M32<br>H16B-TGH-RO-M40 | T1340160121-000<br>T1340160129-000<br>T1340160125-000<br>T1340160132-000<br>T1340160140-000 |
| Cable-to-cable hood | | | | | |
| |  Low construction High construction<br>Construction \| H<br>Low \| 62.5<br>Hight \| 74.5 | M25<br>M32<br><br>M25<br>M32<br>M40 | PG21<br>PG29<br><br>PG21<br>PG29 | H16B-TBF-LB-PG21<br>H16B-TBF-LB-PG29<br>H16B-TBF-LB-M25<br>H16B-TBF-LB-M32<br><br>H16B-TBFH-LB-PG21<br>H16B-TBFH-LB-PG29<br>H16B-TBFH-LB-M25<br>H16B-TBFH-LB-M32<br>H16B-TBFH-LB-M40 | T1730163121-000<br>T1730163129-000<br>T1730163125-000<br>T1730163132-000<br><br>T1770163121-000<br>T1770163129-000<br>T1770163125-000<br>T1770163132-000<br>T1770163140-000 |
| Protection covers for hoods | | | | | |
| | | | | H16B-KDTP-LB | T1010161500-000 |

## H16B with 1 lever on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | Metr. | PG | Type | Part Number |
|---|---|---|---|---|
| Bulkhead mounted | | | | |
|  | | | H16B-AG-LB | T1500163000-000 |
| With protection cover  | | | H16B-AD-LB | T1510163000-000 |
| Surface mounted: Side entry | | | | |
|  1 Side entry Low construction 2 Side entry 1 Side entry High construction 2 Side entry | M20<br>M25<br><br><br>M20<br>M25<br><br><br>M25<br>M32<br><br><br>M25<br>M32 | PG16<br>PG21<br><br><br>PG16<br>PG21<br><br><br>PG21<br>PG29<br><br><br>PG21<br>PG29<br><br><br>M25<br>M32 | H16B-SGR-LB-PG16<br>H16B-SGR-LB-PG21<br>H16B-SGR-LB-M20<br>H16B-SGR-LB-M25<br>H16B-SGR-LB-2PG16<br>H16B-SGR-LB-2PG21<br>H16B-SGR-LB-2M20<br>H16B-SGR-LB-2M25<br>H16B-SGRH-LB-PG21<br>H16B-SGRH-LB-PG29<br>H16B-SGRH-LB-M25<br>H16B-SGRH-LB-M32<br>H16B-SGRH-LB-2PG21<br>H16B-SGRH-LB-2PG29<br>H16B-SGRH-LB-2M25<br>H16B-SGRH-LB-2M32 | T1610163116-000<br>T1610163121-000<br>T1610163120-000<br>T1610163125-000<br>T1610163216-000<br>T1610163221-000<br>T1610163220-000<br>T1610163225-000<br>T1650163121-000<br>T1650163129-000<br>T1650163125-000<br>T1650163132-000<br>T1650163221-000<br>T1650163229-000<br>T1650163225-000<br>T1650163232-000 |
| With protection cover  1 Side entry Low construction 2 Side entry 1 Side entry High construction 2 Side entry | M20<br>M25<br><br><br>M20<br>M25<br><br><br>M25<br>M32<br><br><br>M25<br>M32 | PG16<br>PG21<br><br><br>PG16<br>PG21<br><br><br>PG21<br>PG29<br><br><br>PG21<br>PG29<br><br><br>M25<br>M32 | H16B-SDR-LB-PG16<br>H16B-SDR-LB-PG21<br>H16B-SDR-LB-M20<br>H16B-SDR-LB-M25<br>H16B-SDR-LB-2PG16<br>H16B-SDR-LB-2PG21<br>H16B-SDR-LB-2M20<br>H16B-SDR-LB-2M25<br>H16B-SDRH-LB-PG21<br>H16B-SDRH-LB-PG29<br>H16B-SDRH-LB-M25<br>H16B-SDRH-LB-M32<br>H16B-SDRH-LB-2PG21<br>H16B-SDRH-LB-2PG29<br>H16B-SDRH-LB-2M25<br>H16B-SDRH-LB-2M32 | T1620163116-000<br>T1620163121-000<br>T1620163120-000<br>T1620163125-000<br>T1620163216-000<br>T1620163221-000<br>T1620163220-000<br>T1620163225-000<br>T1660163121-000<br>T1660163129-000<br>T1660163125-000<br>T1660163132-000<br>T1660163221-000<br>T1660163229-000<br>T1660163225-000<br>T1660163232-000 |

| Construction | H |
|---|---|
| Low | 56 |
| Hight | 81 |

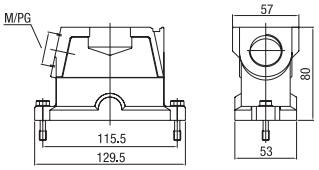
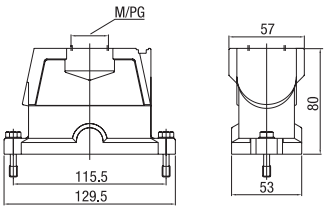
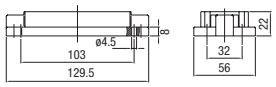
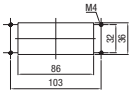
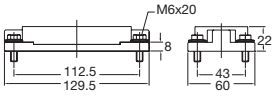
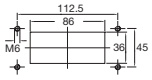


All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

## 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

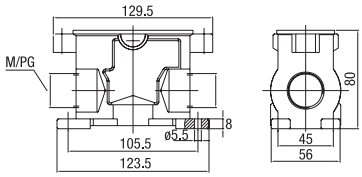
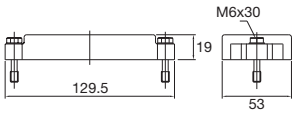
**Pressure-tight up to 5 bar** **IP 68 / IP 69 K**

| Description | | Metr. | PG | Type | Part Number |
|---|---|---|---|---|---|
| **Hood:** Side entry | | | | | |
| |  | M32 | | **HIP** | |
| | | | 21 | HIP.16/40.STS.1.21.G | 1-1102649-5 |
| | | | 29 | HIP.16/40.STS.1.29.G | 1-1102651-5 |
| | | | | HIP.16/40.STS.1.M32.G | 0-1106454-2 |
| | | | | **HIP-K** | |
| | | | 29 | HIP-K.16/40.STS.1.29.G | 2-1102651-5 |
| | | M32 | | HIP-K.16/40.STS.1.M32.G | 0-1106444-2 |
| | | | | **EMV-K** | |
| | | | 29 | EMV-K.16/40.STS.1.29.G | 4-1102723-5 |
| | | M32 | | EMV-K.16/40.STS.1.M32.G | 0-1106446-4 |
| | | | 21 | EMV-K.16/40.STS.1.21.G | 4-1102722-5 |
| **Hood:** Top entry | | | | | |
| |  | | | **HIP** | |
| | | | 21 | HIP.16/40.STO.1.21.G | 1-1102653-5 |
| | | | 29 | HIP.16/40.STO.1.29.G | 1-1102655-5 |
| | | M32 | | HIP.16/40.STO.1.M32.G | 0-1106454-1 |
| | | | | **HIP-K** | |
| | | | 21 | HIP-K.16/40.STO.2.21.G | 0-1108534-1 |
| | | | 29 | HIP-K.16/40.STO.1.29.G | 2-1102655-5 |
| | | M32 | | HIP-K.16/40.STO.1.M32.G | 0-1106444-1 |
| | | | | **EMV-K** | |
| | | | 29 | EMV-K.16/40.STO.1.29.G | 4-1102725-5 |
| | | M32 | | EMV-K.16/40.STO.1.M32.G | 0-1106446-3 |
| **Surface mounted housing:** Bottom entry | | | | | |
| |  <br>Panel cut-out<br>  | | | **HIP**<br>HIP.16/40.AG | 1-1102656-5 |
| | | | | **HIP-K**<br>HIP-K.16/40.AG | 2-1102656-5 |
| | | | | **EMV-K**<br>EMV-K.16/40.AG | 4-1102728-5 |
| |  <br>Panel cut-out<br>  | | | **HIP**<br>HIP.16/40.AG.M6 | 1-1102618-5 |
| | | | | **HIP-K**<br>HIP-K.16/40.AG.M6 | 2-1102618-5 |
| | | | | **EMV-K**<br>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 | | | | | |
| |  | | | **HIP** | |
| | | | 21 | HIP.16/40.SG.1.21.G | 1-1102616-5 |
| | | | 2x21 | HIP.16/40.SG.2.21.G | 1-1102617-5 |
| | | 2xM32 | | HIP.16/40.SG.2.M32.G | 0-1106453-1 |
| | | | | **HIP-K** | |
| | | | 21 | HIP-K.16/40.SG.1.21.G | 5-1102616-5 |
| | | | 2x21 | HIP-K.16/40.SG.2.21.G | 2-1102617-5 |
| | | 2xM32 | | HIP-K.16/40.SG.2.M32.G | 0-1106443-1 |
| | | | | **EMV-K** | |
| | | | 21 | EMV-K.16/40.SG.1.21.Z | 4-1102726-5 |
| | | | 2x21 | EMV-K.16/40.SG.2.21.Z | 4-1102727-5 |
| | | 2xM32 | | EMV-K.16/40.SG.2.M32.G | 0-1106445-2 |
| **Protective covers for housings** | | | | | |
| |  | | | **HIP** | |
| | | | | HIP/EMV.16/40.SKB | 3-1106203-5 |
| | | | | **HIP-K** | |
| | | | | HIP-K.16/40.SKB | 4-1106203-5 |



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

# 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 ..... ≥$10^{10}\Omega$
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 ..... ≤0.1mΩ
Signal contact ..... ≤5mΩ
Terminal ..... Crimp terminal
- $mm^2$
Power contact ..... 1.5-16$mm^2$
Signal contact ..... 0.5-2.5$mm^2$
- 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 |

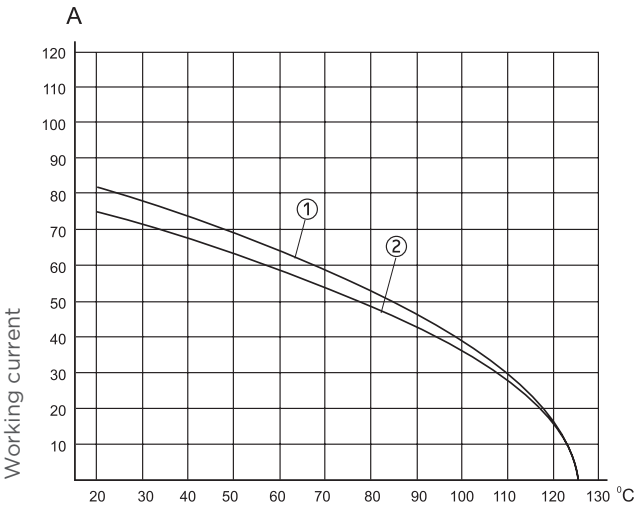
- Signal contact ..... 0.5 Nm

## 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.



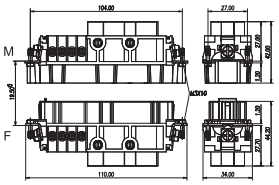
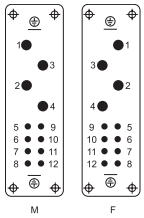

1 Wire gauge: 16$mm^2$
2 Wire gauge: 10$mm^2$

## 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 | T2100122101-000 | |
| | | HK4/8-012-F | | T2100122201-000 |
| Contact arrangement view from termination side | | | | |
|  | | | | |



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

# 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 ..... ≥$10^{10}\Omega$
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 ..... ≤0.1mΩ
Signal contact..... ≤5mΩ
Terminal ..... Screw terminal
- $mm^2$
Power 1 contact..... 16-35$mm^2$
Power 2 contact..... 2.5-6$mm^2$
Signal contact..... 0.5-2.5$mm^2$
- 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

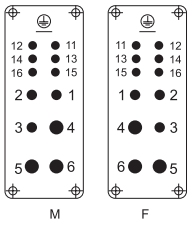
Material ..... Die cast aluminium
Surface ..... Powder-coated (RAL 7037)
Locking element..... Stainless steel, steel-zinc plated
Temperature range ..... -40°C... +125°C
Degree of protection acc. to DIN40 050 ..... IP65

## HWK3/3/6 inserts

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

INSERTS FOR H24B HOOD/HOUSING

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 | T2093362101-000 | |
| | | HK3/3/6-012-F | | T2093362201-000 |

## CONTACTS

Material ..... Copper alloy
Surface ..... Hard 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

| mm² | 1.5 | 2.5 | 4 | 6 | 10 | 16 |
|---|---|---|---|---|---|---|
| Nm | 1.2 | 2 | 3 | 3 | 3 | 3 |

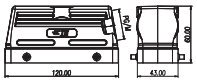
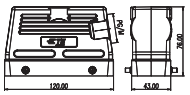
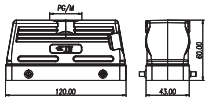
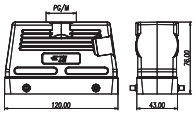
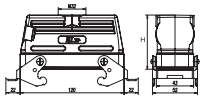
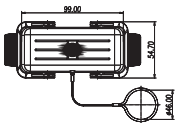
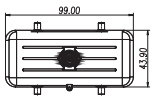
- Signal contact..... 0.5Nm



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

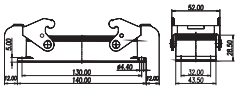
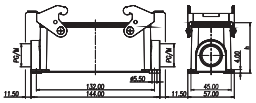
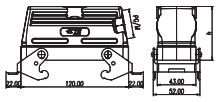
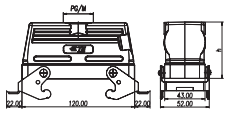
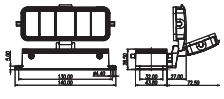
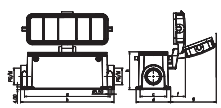
## H24B with 2 levers on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | | Metr. | PG | Type | Part Number |
|---|---|---|---|---|---|
| Hood: Side entry | | | | | |
| | Low construction  | M25<br>M32 | PG16<br>PG21 | H24B-TS-PG16<br>H24B-TS-PG21<br>H24B-TS-M25<br>H24B-TS-M32 | T1210240116-000<br>T1210240121-000<br>T1210240125-000<br>T1210240132-000 |
| | High construction  | M25<br>M32<br>M40 | PG21<br>PG29 | H24B-TSH-PG21<br>H24B-TSH-PG29<br>H24B-TSH-M25<br>H24B-TSH-M32<br>H24B-TSH-M40 | T1230240121-000<br>T1230240129-000<br>T1230240125-000<br>T1230240132-000<br>T1230240140-000 |
| Hood: Top entry | | | | | |
| | Low construction  | M25<br>M32 | PG16<br>PG21 | H24B-TG-PG16<br>H24B-TG-PG21<br>H24B-TG-M25<br>H24B-TG-M32 | T1220240116-000<br>T1220240121-000<br>T1220240125-000<br>T1220240132-000 |
| | High construction  | M25<br>M32<br>M40 | PG21<br>PG29 | H24B-TGH-PG21<br>H24B-TGH-PG29<br>H24B-TGH-M25<br>H24B-TGH-M32<br>H24B-TGH-M40 | T1240240121-000<br>T1240240129-000<br>T1240240125-000<br>T1240240132-000<br>T1240240140-000 |
| Cable-to-cable hood | | | | | |
| |  Low construction High construction<br>Construction / H<br>Low / 62.5<br>Hight / 78.5 | M25<br>M32<br><br>M25<br>M32<br>M40 | PG21<br><br>PG21<br>PG29 | H24B-TBFS-PG21<br>H24B-TBFS-M25<br>H24B-TBFS-M32<br>H24B-TBFHS-PG21<br>H24B-TBFHS-PG29<br>H24B-TBFHS-M25<br>H24B-TBFHS-M32<br>H24B-TBFHS-M40 | T1710241121-000<br>T1710241125-000<br>T1710241132-000<br>T1750241121-000<br>T1750241129-000<br>T1750241125-000<br>T1750241132-000<br>T1750241140-000 |
| Protection covers for hoods | | | | | |
| |  | | | H24B-KDTP | T1010241400-000 |
| Housing protection cover | | | | | |
| |  | | | H24B-KDBP | T1010242100-000 |

## H24B with 2 levers on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | Metr. | PG | Type | Part Number |
|---|---|---|---|---|
| **Bulkhead mounted** | | | | |
|  | | | H24B-AGS | T1410241000-000 |
| **Surface mounted: Side entry** | | | | |
|  1 Side entry Low construction 2 Side entry 1 Side entry High construction 2 Side entry | M25<br>M25<br>M25<br>M32<br>M25<br>M32 | PG21<br>PG21<br>PG21<br>PG29<br>PG21<br>PG29 | H24B-SGRS-PG21<br>H24B-SGRS-M25<br>H24B-SGRS-2PG21<br>H24B-SGRS-2M25<br>H24B-SGRHS-PG21<br>H24B-SGRHS-PG29<br>H24B-SGRHS-M25<br>H24B-SGRHS-M32<br>H24B-SGRHS-2PG21<br>H24B-SGRHS-2PG29<br>H24B-SGRHS-2M25<br>H24B-SGRHS-2M32 | T1440241121-000<br>T1440241125-000<br>T1440241221-000<br>T1440241225-000<br>T1470241121-000<br>T1470241129-000<br>T1470241125-000<br>T1470241132-000<br>T1470241221-000<br>T1470241229-000<br>T1470241225-000<br>T1470241232-000 |
| Construction \| H<br>Low \| 56<br>Hight \| 81 | | | | |
| **Side entry housing with two levers** | | | | |
|  Low construction High construction | M20<br>M25<br>M25<br>M32 | PG16<br>PG21<br>PG21<br>PG29 | H24B-TSBS-PG16<br>H24B-TSBS-PG21<br>H24B-TSBS-M20<br>H24B-TSBS-M25<br>H24B-TSBHS-PG21<br>H24B-TSBHS-PG29<br>H24B-TSBHS-M25<br>H24B-TSBHS-M32 | T1250243116-000<br>T1250243121-000<br>T1250243120-000<br>T1250243125-000<br>T1270243121-000<br>T1270243129-000<br>T1270243125-000<br>T1270243132-000 |
| Construction \| H<br>Low \| 60<br>Hight \| 76 | | | | |
| **Top entry housing with two levers** | | | | |
|  Low construction High construction | M20<br>M25<br>M25<br>M32 | PG16<br>PG21<br>PG21<br>PG29 | H24B-TGBS-PG16<br>H24B-TGBS-PG21<br>H24B-TGBS-M20<br>H24B-TGBS-M25<br>H24B-TGBHS-PG21<br>H24B-TGBHS-PG29<br>H24B-TGBHS-M25<br>H24B-TGBHS-M32 | T1260243116-000<br>T1260243121-000<br>T1260243120-000<br>T1260243125-000<br>T1280243121-000<br>T1280243129-000<br>T1280243125-000<br>T1280243132-000 |
| Construction \| H<br>Low \| 60<br>Hight \| 76 | | | | |
| **Bulkhead mounted with 4 bolts** | | | | |
| With protection cover   1 Side entry Low construction 2 Side entry 1 Side entry High construction 2 Side entry | | | H24B-AD-BO | T1430240000-000 |
| | M25<br>M25<br>M25<br>M32<br>M25<br>M32 | PG21<br>PG21<br>PG21<br>PG29<br>PG21<br>PG29 | H24B-SDR-BO-PG21<br>H24B-SDR-BO-M25<br>H24B-SDR-BO-2PG21<br>H24B-SDR-BO-2M25<br>H24B-SDRH-BO-PG21<br>H24B-SDRH-BO-PG29<br>H24B-SDRH-BO-M25<br>H24B-SDRH-BO-M32<br>H24B-SDRH-BO-2PG21<br>H24B-SDRH-BO-2PG29<br>H24B-SDRH-BO-2M25<br>H24B-SDRH-BO-2M32 | T1460240121-000<br>T1460240125-000<br>T1460240221-000<br>T1460240225-000<br>T1490240121-000<br>T1490240129-000<br>T1490240125-000<br>T1490240132-000<br>T1490240221-000<br>T1490240229-000<br>T1490240225-000<br>T1490240232-000 |

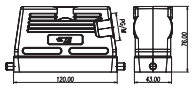
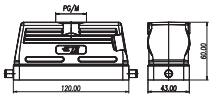
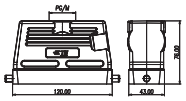
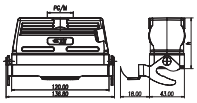
| Construction | A | B | C | D | F | G | H |
|---|---|---|---|---|---|---|---|
| Low | 132 | 144 | 45 | 57 | 20 | 65 | 56 |
| Hight | 132 | 144 | 45 | 57 | 20 | 65 | 81 |



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

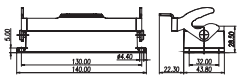
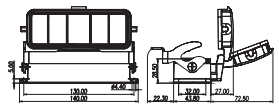
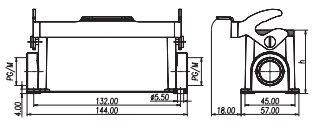
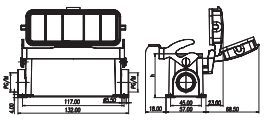
## H24B with 1 lever on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | | Metr. | PG | Type | Part Number |
|---|---|---|---|---|---|
| Hood: Side entry | | | | | |
| | Low construction | M25<br>M32 | PG21<br>PG29 | H24B-TS-RO-PG21<br>H24B-TS-RO-PG29<br>H24B-TS-RO-M25<br>H24B-TS-RO-M32 | T1310240121-000<br>T1310240129-000<br>T1310240125-000<br>T1310240132-000 |
| | High construction  | M25<br>M32<br>M40 | PG21<br>PG29 | H24B-TSH-RO-PG21<br>H24B-TSH-RO-PG29<br>H24B-TSH-RO-M25<br>H24B-TSH-RO-M32<br>H24B-TSH-RO-M40 | T1330240121-000<br>T1330240129-000<br>T1330240125-000<br>T1330240132-000<br>T1330240140-000 |
| Hood: Top entry | | | | | |
| | Low construction  | M25<br>M32 | PG21<br>PG29 | H24B-TG-RO-PG21<br>H24B-TG-RO-PG29<br>H24B-TG-RO-M25<br>H24B-TG-RO-M32 | T1320240121-000<br>T1320240129-000<br>T1320240125-000<br>T1320240132-000 |
| | High construction  | M25<br>M32<br>M40 | PG21<br>PG29 | H24B-TGH-RO-PG21<br>H24B-TGH-RO-PG29<br>H24B-TGH-RO-M25<br>H24B-TGH-RO-M32<br>H24B-TGH-RO-M40 | T1340240121-000<br>T1340240129-000<br>T1340240125-000<br>T1340240132-000<br>T1340240140-000 |
| Cable-to-cable hood | | | | | |
| |  Low construction High construction<br>Construction / H<br>Low / 62.5<br>Hight / 78.5 | M25<br>M32<br><br>M25<br>M32<br>M40 | PG21<br>PG29<br><br>PG21<br>PG29 | H24B-TBF-LB-PG21<br>H24B-TBF-LB-PG29<br>H24B-TBF-LB-M25<br>H24B-TBF-LB-M32<br>H24B-TBFH-LB-PG21<br>H24B-TBFH-LB-PG29<br>H24B-TBFH-LB-M25<br>H24B-TBFH-LB-M32<br>H24B-TBFH-LB-M40 | T1730242121-000<br>T1730242129-000<br>T1730242125-000<br>T1730242132-000<br>T1770243121-000<br>T1770243129-000<br>T1770243125-000<br>T1770243132-000<br>T1770243140-000 |
| Protection covers for hoods | | | | | |
| | | | | H24B-KDTP-LB | T1010241500-000 |

## H24B with 1 lever on the hoods/housings

POWDER-COATED, RAL 7037

| Dimensions (mm) | Metr. | PG | Type | Part Number |
|---|---|---|---|---|
| Bulkhead mounted | | | | |
|  | | | H24B-AG-LB | T1500243000-000 |
| With protection cover  | | | H24B-AD-LB | T1510243000-000 |
| Surface mounted: Side entry | | | | |
|  1 Side entry Low construction 2 Side entry 1 Side entry High construction 2 Side entry | M20<br>M25<br><br><br>M20<br>M25<br><br><br>M25<br>M32<br><br><br>M25<br>M32 | PG16<br>PG21<br><br><br>PG16<br>PG21<br><br><br>PG21<br>PG29<br><br><br>PG21<br>PG29<br><br><br>M25<br>M32 | H24B-SGR-LB-PG16<br>H24B-SGR-LB-PG21<br>H24B-SGR-LB-M20<br>H24B-SGR-LB-M25<br>H24B-SGR-LB-2PG16<br>H24B-SGR-LB-2PG21<br>H24B-SGR-LB-2M20<br>H24B-SGR-LB-2M25<br>H24B-SGRH-LB-PG21<br>H24B-SGRH-LB-PG29<br>H24B-SGRH-LB-M25<br>H24B-SGRH-LB-M32<br>H24B-SGRH-LB-2PG21<br>H24B-SGRH-LB-2PG29<br>H24B-SGRH-LB-2M25<br>H24B-SGRH-LB-2M32 | T1610243116-000<br>T1610243121-000<br>T1610243120-000<br>T1610243125-000<br>T1610243216-000<br>T1610243221-000<br>T1610243220-000<br>T1610243225-000<br>T1650243121-000<br>T1650243129-000<br>T1650243125-000<br>T1650243132-000<br>T1650243221-000<br>T1650243229-000<br>T1650243225-000<br>T1650243232-000 |
| With protection cover  1 Side entry Low construction 2 Side entry 1 Side entry High construction 2 Side entry | M20<br>M25<br><br><br>M20<br>M25<br><br><br>M25<br>M32<br><br><br>M25<br>M32 | PG16<br>PG21<br><br><br>PG16<br>PG21<br><br><br>PG21<br>PG29<br><br><br>PG21<br>PG29<br><br><br>M25<br>M32 | H24B-SDR-LB-PG16<br>H24B-SDR-LB-PG21<br>H24B-SDR-LB-M20<br>H24B-SDR-LB-M25<br>H24B-SDR-LB-2PG16<br>H24B-SDR-LB-2PG21<br>H24B-SDR-LB-2M20<br>H24B-SDR-LB-2M25<br>H24B-SDRH-LB-PG21<br>H24B-SDRH-LB-PG29<br>H24B-SDRH-LB-M2S<br>H24B-SDRH-LB-M32<br>H24B-SDRH-LB-2PG21<br>H24B-SDRH-LB-2PG29<br>H24B-SDRH-LB-2M25<br>H24B-SDRH-LB-2M32 | T1620243116-000<br>T1620243121-000<br>T1620243120-000<br>T1620243125-000<br>T1620243216-000<br>T1620243221-000<br>T1620243220-000<br>T1620243225-000<br>T1660243121-000<br>T1660243129-000<br>T1660243125-000<br>T1660243132-000<br>T1660243221-000<br>T1660243229-000<br>T1660243225-000<br>T1660243232-000 |

| Construction | H |
|---|---|
| Low | 56 |
| Hight | 81 |

| Construction | H |
|---|---|
| Low | 56 |
| Hight | 81 |

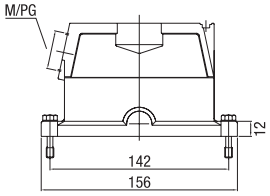
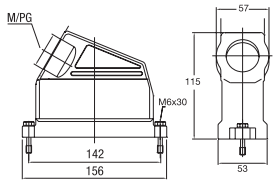
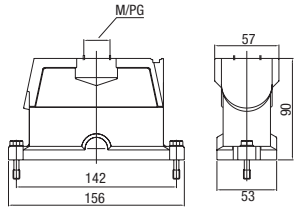


All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

## 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

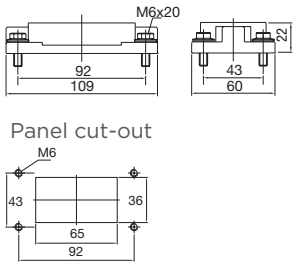
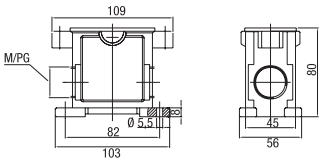
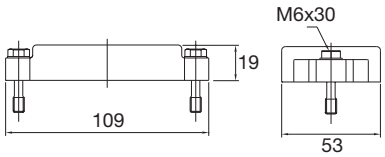
**Pressure-tight up to 5 bar** — **IP 68 / IP 69 K**

| Description | | Metr. | PG | Type | Part Number |
|---|---|---|---|---|---|
| **Hood:** Side entry, Standard construction | | | | | |
| |  | M40 | 21<br>29 | **HIP**<br>HIP.24/64.STS.1.21.G<br>HIP.24/64.STS.1.29 G<br>HIP.24/64.STS.1.M40.G | 1-1102658-5<br>1-1102660-5<br>0-1106473-2 |
| | | M40 | 29 | **HIP-K**<br>HIP-K.24/64.STS.1.29.G<br>HIP-K.24/64.STS.1.M40.G | 2-1102660-5<br>0-1106473-4 |
| | | M25<br>M32<br>M40 | 29 | **EMV-K**<br>EMV-K.24/64.STS.1.29.G<br>EMV-K.24/64.STS.1.M25.G<br>EMV-K.24/64.STS.1.M32.G<br>EMV-K.24/64.STS.1.M40.G | 4-1102755-5<br>0-1102983-1<br>0-1106461-8<br>0-1106461-3 |
| |  | M40 | 29<br>36 | **HIP**<br>HIP-KF.24/64.STS.1.29.G<br>HIP-KF.24/64.STS.1.36.G<br>HIP-KF.24/64.STS.1.M40.G | 1-1102622-5<br>1-1102623-5<br>0-1106474-1 |
| | | M40 | 29<br>36 | **HIP-K**<br>HIP-KF/K.24/64.STS.1.29.G<br>HIP-KF/K. 24/64.STS.1.36G<br>HIP-KF/K.24/64.STS.1.M40.G | 2-1102622-5<br>2-1102623-5<br>0-1106474-2 |
| | | M40 | 29<br>36 | **EMV-K**<br>EMV-KF/K.24/64.STS.1.29.G<br>EMV-KF/K.24/64.STS.1.36.G<br>EMV-KF/K.24/64.STS.1.M40.G | 4-1102732-5<br>4-1102733-5<br>0-1106462-2 |
| **Hood:** Top entry, Standard construction | | | | | |
| |  | M40 | 21<br>29 | **HIP**<br>HIP.24/64.STO.1.21.G<br>HIP.24/64.STO.1.29.G<br>HIP.24/64.STO.1.M40.G | 1-1102662-5<br>1-1102664-5<br>0-1106473-1 |
| | | 2xM32<br>M40 | 29 | **HIP-K**<br>HIP-K.24/64.STO.1.29.G<br>HIP-K.24/64.STO.2.M32.G<br>HIP-K.24/64.STO.1.M40.G | 2-1102664-5<br>0-1102792-1<br>0-1106473-3 |
| | | M40<br>2xM40 | 29 | **EMV-K**<br>EMV-K.24/64.STO.1.29.G<br>EMV-K.24/64.STO.1.M40.G | 4-1102759-5<br>0-1106461-4 |
| | | 2xM40 | | | |
| | | 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**<br>HIP.10/24.AG.M6<br><br>**HIP-K**<br>HIP-K.10/24.AG.M6<br><br>**EMV-K**<br>EMV-K.10/24.AG.M6 | <br>1-1102612-5<br><br><br>2-1102612-5<br><br><br>4-1102720-5 |
| **Surface mounted housing:** Side entry | | | | | |
| |  | 2xM32<br><br><br><br><br><br><br><br>2xM32 | 21<br>2x21<br><br><br><br>21<br>2x21<br><br>21<br>2x21 | **HIP**<br>HIP.10/24.SG.1.21.G<br>HIP.10/24.SG.2.21.G<br>HIP.10/24.SG.2.M32.G<br><br>**HIP-K**<br>HIP-K.10/24.SG.1.21.G<br>HIP-K.10/24.SG.2.21.G<br><br>**EMV-K**<br>EMV-K.10/24.SG.1.21.G<br>EMV-K.10/24.SG.2.21.G<br>EMV-K.10/24.SG.2.M32.G | <br>1-1102610-5<br>1-1102611-5<br>0-1106435-1<br><br><br>5-1102610-5<br>2-1102611-5<br><br><br>5-1102716-5<br>4-1102717-5<br>0-1106426-2 |
| **Protective covers for hoods and housing** | | | | | |
| |  | | | **HIP**<br>HIP/EMV.10/24.SKB<br><br>**HIP-K/EMV-K**<br>HIP-K/EMV-K.10/24.SKB | <br>3-1106202-5<br><br><br>4-1106202-5 |

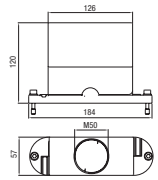
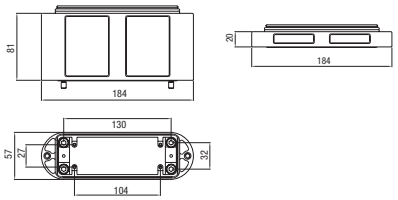
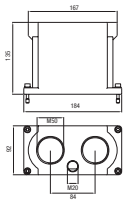
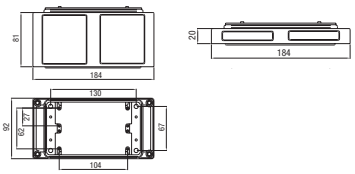


All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

## 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<br>1xM50<br>2xM40<br>2xM40 | | HF-HIP-K.8.Sto.1.M50G<br>HF.8.EMV-K.8.Sto.1.M50G<br>HF.HIP-K.8.Sto.2.M40G<br>HF.EMV-K.8.Sto.2.M40G | 0-1102839-4<br>0-1102839-3<br>0-1102839-2<br>0-1102839-1 |
| Housing bottom | | | | | |
| |  | **Height** | | | |
| | | 81 mm<br>81 mm | 20 mm<br>20 mm | HF-HIP-K.8.AG.N<br>HF-EMV-K.8.AG.N<br>HF-HIP-K.8.AG<br>HF-EMV-K.8.AG | 0-1102837-2<br>0-1102837-1<br>0-1102836-2<br>0-1102836-1 |
| Hood | | | | | |
| |  | 2xM40<br>2xM40<br>2xM50<br>2xM50 | | HF-HIP-K.12.Sto.2.M40G<br>HF-EMV-K.12.Sto.2.M40G<br>HF-HIP-K.12.Sto.2.M50G<br>HF-EMV-K.12.Sto.2.M50G | 0-1102840-2<br>0-1102840-1<br>0-1102840-4<br>0-1102840-3 |
| Housing bottom | | | | | |
| |  | **Height** | | | |
| | | 81 mm<br>81 mm | 20 mm<br>20 mm | HF-HIP-K.12.AG.N<br>HF-EMV-K.12.AG.N<br>HF-HIP-K.12.AG<br>HF-EMVK-K.12.AG | 0-1102838-2<br>0-1102838-1<br>0-1102192-2<br>0-1102192-1 |

## Connectors for Power Supply and Power Circuits

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

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

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

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

We also offer solutions for your application specific requirements.

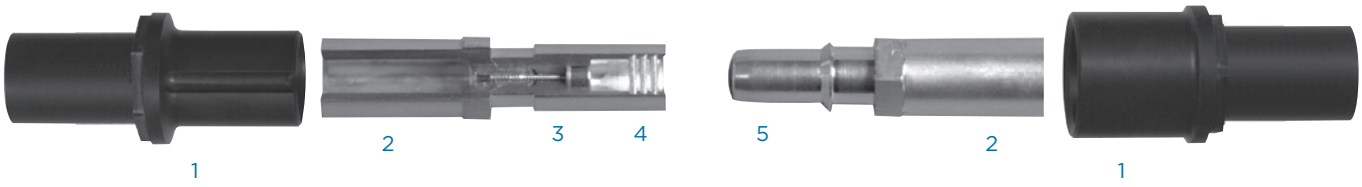
### POWER CONTACT SERIE HPC GRADED BY DIMENSIONAL LEVELS UP TO 350 A FOR VARIOUS INDUSTRIAL APPLICATIONS

65 % higher current consumption than other available contact systems of the same size.
F. e. Tulip contact 250 A – Coil spring contact 350 A.



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

## Coil Spring Power Contact




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

### CRIMP FERRULE

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

### MALE/FEMALE CONTACT

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

## Connector overview

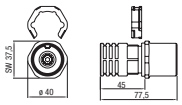
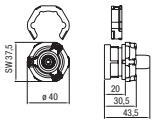
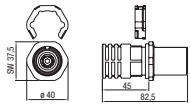
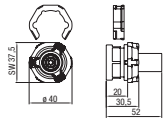
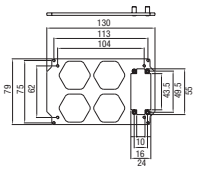
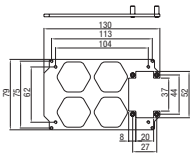
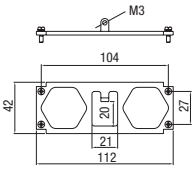
| **Series** | **HF-13** |
|---|---|
| **Power circuit** | **350A (3KV)** |
| Signal circuit | 16A (400V) |
| Pollution degree | 3(C) |
| Type of terminals | Crimp |
| **Pole**<br>**Modul** | 1 |
| Page | 16 |



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

## HF-13 module

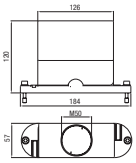
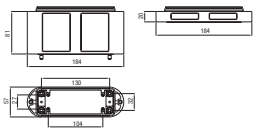
350A/3KV

| 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<br>1 x for earth<br>1 x for signal (HA.10)<br>Assembly in HF.12 Housings |  | | 0-1110955-3 | 0-1110955-1 |
| 3 x for power<br>1 x for earth<br>1x for signal (HE.6)<br>Assembly in HF.12 Housings |  | | 0-1110955-4 | 0-1110955-2 |
| 2 x for power<br>1 x signal<br>Assembly in HF.8 Housings |  | | 0-1110960-2 | 0-1110960-1 |

## HF.8 housings

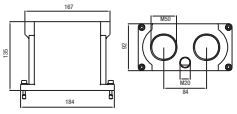
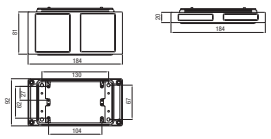
**EMV-K:** corrosion-resistant, black; HIP-K: black

**Screw lock on hood** **IP 68 / IP 69 K**

| Description | | Metr. | Height | Type | Part Number |
|---|---|---|---|---|---|
| Hood | | | | | |
| |  | 1xM50<br>1xM50<br>2xM40<br>2xM40<br>2xM40+1xM16<br>2xM40+1xM16 | | HF-HIP-K.8.Sto.1.M50G<br>HF.8.EMV-K.8.Sto.1.M50G<br>HF.HIP-K.8.Sto.2.M40G<br>HF.EMV-K.8.Sto.2.M40G<br>HF.HIP.K8.Sto.2.M40G.1M16G<br>HF.EMV.K8.Sto.2.M40G.1M16G | 0-1102839-4<br>0-1102839-3<br>0-1102839-2<br>0-1102839-1<br>0-1102839-6<br>0-1102839-5 |
| Housing bottom | | | | | |
| |  | | 20<br>20<br>81<br>81 | HF-HIP-K.8.AG.N<br>HF-EMV-K.8.AG.N<br>HF-HIP-K.8.AG<br>HF-EMV-K.8.AG | 0-1102837-2<br>0-1102837-1<br>0-1102836-2<br>0-1102836-1 |

## HF.12 housings

**Screw lock on hood** **IP 68 / IP 69 K**

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

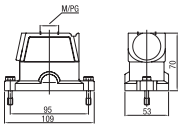
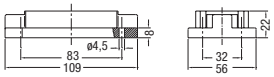
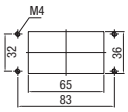
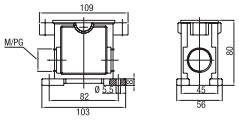


All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

## 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<br>EMV-K.10/24.Sto.1.M25G | 4-1102715-5<br>0-1106427-4 |
| Surface mounted housing: Bottom entry | | | | | |
| |  <br>Panel cut-out<br>  | | | EMV-K.10/24.AG | 4-1102718-5 |
| Surface mounted housing: side entry | | | | | |
| |  | 2xM32 | 21 | EMV-K.10/24.SG.1.21G<br>EMV-K.10/24.SG.2.M32G | 4-1102716-5<br>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<br>- shrink tube<br>- crimp barrel<br>- adapter | | CH.50mm²-13/16mm<br>CH.70mm²-13/16mm<br>CH.95rmm²-13/16mm<br>CH.105mm²-13/16mm<br>CH.120mm²-13/16mm<br>CH.150mm²-13/16mm | 0-1110953-5<br>0-1110953-6<br>0-1110953-7<br>0-1110953-8<br>0-1110953-9<br>1-1110953-1 |

### SUITABLE TOOL

| Description | | Type | Part Number |
|---|---|---|---|
| Crimping tool without crimping jaws | | HSS-CSZ.2.5-70mm² | 1-1105653-8 |
| Crimping jaws for HSL, HSS | | CB-HSS-CSZ.6mm²<br>CB-HSS-CSZ.10mm²<br>CB-HSS-CSZ.16mm²<br>CB-HSS-CSZ.25mm²<br>CB-HSS-CSZ.35mm²<br>CB-HSS-CSZ.50mm²<br>CB-HSS-CSZ.70mm² | 2-1105653-8<br>3-1105653-8<br>4-1105653-8<br>5-1105653-8<br>6-1105653-8<br>7-1105653-8<br>8-1105653-8 |
| Hydraulic Crimping tool | | HF-CHZ | 0-1110956-1 |
| Dies | | SET-50-150mm²<br>150mm²-KZ22<br>120mm²-KZ20<br>95mm²-KZ18<br>70mm²-KZ16<br>50mm²-KZ14 | 0-1110956-7<br>0-1110956-6<br>0-1110956-5<br>0-1110956-4<br>0-1110956-3<br>0-1110956-2 |



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

## Notes

## IP68, IP65 Hoods and Housings overview

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

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

3. Approvals

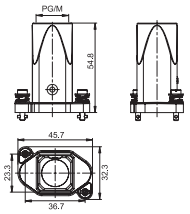
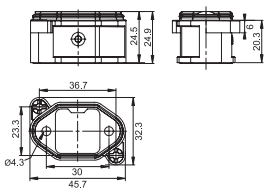
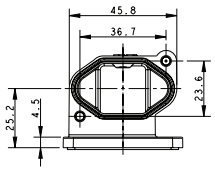
RoHS



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

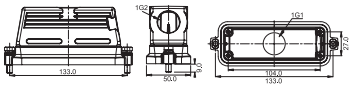
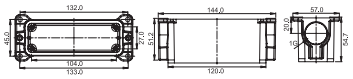
## HPR (IP68) series hoods/housings

### H3APR (IP68) SERIES

| Opposite angle locking | | Metr. | PG | Type | Part Number |
|---|---|---|---|---|---|
| Top entry | | | | | |
| |  | M20 | PG16 | H3APR-MTG-PG16<br>H3APR-MTG-M20 | T1920030116-000<br>T1920030120-000 |
| Bulkhead mounted: Bottom entry | | | | | |
| |  | | | H3APR-MAG | T1930030000-000 |
| Bulkhead mounted: Side entry | | | | | |
| |  | | | H3APR-MAGS | T1946030000-000 (Black)<br>T1946032000-000 (Grey)<br>T1946031000-000 (Silver) |

## HB hoods/housings with central locking lever

HB (IP67) SERIES

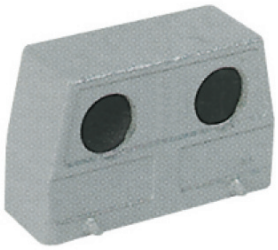
| Central locking | | Size | Metr. | PG | Type | Part Number |
|---|---|---|---|---|---|---|
| |  | H24B | | | **Top entry** | |
| | | | | PG21 | H24BK-TGHC-PG21 | T1822242121-000 |
| | | | | PG29 | H24BK-TGHC-PG29 | T1822242129-000 |
| | | | M25 | | H24BK-TGHC-M25 | T1822242125-000 |
| | | | M32 | | H24BK-TGHC-M32 | T1822242132-000 |
| | | | M40 | | H24BK-TGHC-M40 | T1822242140-000 |
| | | | | | **Side entry** | |
| | | | | PG21 | H24BK-TSHC-PG21 | T1812242121-000 |
| | | | M25 | | H24BK-TSHC-M25 | T1812242125-000 |
| | | | M32 | | H24BK-TSHC-M32 | T1812242132-000 |
| Surface mounted side entry | | | | | | |
| |  | H24B | | | **1 side entry** | |
| | | | | PG21 | H24BK-SGR-PG21 | T1852242121-000 |
| | | | M25 | | H24BK-SGR-M25 | T1852242125-000 |
| | | | | | **2 side entry** | |
| | | | | PG21 | H24BK-SGR-2PG21 | T1852242221-000 |
| | | | M25 | | H24BK-SGR-2M25 | T1852242225-000 |



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

## Special hoods

### SPECIAL HOODS (IP65) SERIES

| Double cable entry | Size | Metr. | PG | Type | Part Number |
|---|---|---|---|---|---|
| Hood: Top entry | | | | | |
| | H10B<br>H16B<br>H24B | 2xM20<br>2xM25<br>2xM25 | 2xPG16<br>2xPG21<br>2xPG21 | H10B-TGH-2PG16<br>H10B-TGH-2M20<br>H16B-TGH-2PG21<br>H16B-TGH-2M25<br>H24B-TGH-2PG21<br>H24B-TGH-2M25 | T1240102116-000<br>T1240102120-000<br>T1240162121-000<br>T1240162125-000<br>T1240242121-000<br>T1240242125-000 |
| Hood: Side entry | | | | | |
|  | H10B<br>H16B<br>H24B | 2xM20<br>2xM25<br>2xM25 | 2xPG16<br>2xPG21<br>2xPG21 | H10B-TFH-2PG16<br>H10B-TFH-2M20<br>H16B-TFH-2PG21<br>H16B-TFH-2M25<br>H24B-TFH-2PG21<br>H24B-TFH-2M25 | T1230102116-000<br>T1230102120-000<br>T1230162121-000<br>T1230162125-000<br>T1230242121-000<br>T1230242125-000 |

## HA series hoods/housings

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

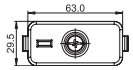
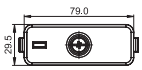
| H3A metal hoods, housings | Metr. | PG | Type | H3A thermoplastic hoods, housings | Metr. | PG | Type |
|---|---|---|---|---|---|---|---|
| Top entry | | | | Top entry | | | |
| | M20 | PG11 | H3A-MTG-PG11<br>H3A-MTG-M20 | | M20 | PG11 | H3A-TG-PG11<br>H3A-TG-M20 |
| Side entry | | | | Side entry | | | |
| | M20 | PG11 | H3A-MTS-PG11<br>H3A-MTS-M20 | | M20 | PG11 | H3A-TS-PG11<br>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<br>M20 | PG11 | H3A-MAGSV-PG11<br>H3A-MAGSV-M16<br>H3A-MAGSV-M20 | | M16<br>M20 | PG11 | H3A-AGSV-PG11<br>H3A-AGSV-M16<br>H3A-AGSV-M20 |
| Cable-to-cable hood | | | | Cable-to-cable hood | | | |
| | M20 | PG11 | H3A-MTGVB-PG11<br>H3A-MTGVB-M20 | | M20 | PG11 | H3A-TGVB-PG11<br>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 | <br>White Grey | Note: For mounted female insert and housings | | H3A-KDBP (White)<br>H3A-KDBPG (Grey) |



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

## HA series hoods/housings

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

| H10A metal hoods, housings | Metr. | PG | Type | H16A metal hoods, housings | Metr. | PG | Type |
|---|---|---|---|---|---|---|---|
| Hood: Side entry | | | | Hood: Side entry | | | |
| Low construction High construction | M20<br>M25 | PG16<br>PG21 | H10A-TS-PG16<br>H10A-TS-PG21<br>H10A-TS-M20<br>H10A-TS-M25 | Low construction High construction | M20<br>M25<br><br>M25 | PG16<br>PG21<br><br>PG21 | H16A-TS-PG16<br>H16A-TS-PG21<br>H16A-TS-M20<br>H16A-TS-M25<br>H16A-TSH-PG21<br>H16A-TSH-M25 |
| Hood: Top entry | | | | | | | |
| Low construction High construction | M20<br>M25 | PG16<br>PG21 | H10A-TG-PG16<br>H10A-TG-PG21<br>H10A-TG-M20<br>H10A-TG-M25 | Low construction High construction | M20<br>M25<br><br>M25 | PG16<br>PG21<br><br>PG21 | H16A-TG-PG16<br>H16A-TG-PG21<br>H16A-TG-M20<br>H16A-TG-M25<br>H16A-TGH-PG21<br>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<br>M25<br><br>M20<br>M25 | PG16<br>PG21<br><br>PG16<br>PG21 | H10A-SGRS-PG16<br>H10A-SGRS-PG21<br>H10A-SGRS-M20<br>H10A-SGRS-M25<br>H10A-SGRS-2PG16<br>H10A-SGRS-2PG21<br>H10A-SGRS-2M20<br>H10A-SGRS-2M25 | 1 Side entry 2 Side entry | M20<br>M25<br><br>M20<br>M25 | PG16<br>PG21<br><br>PG16<br>PG21 | H16A-SGRS-PG16<br>H16A-SGRS-PG21<br>H16A-SGRS-M20<br>H16A-SGRS-M25<br>H16A-SGRS-2PG16<br>H16A-SGRS-2PG21<br>H16A-SGRS-2M20<br>H16A-SGRS-2M25 |
| 1 Side entry 2 Side entry | M20<br>M25<br><br>M20<br>M25 | PG16<br>PG21<br><br>PG16<br>PG21 | H10A-SDRMS-PG16<br>H10A-SDRMS-PG21<br>H10A-SDRMS-M20<br>H10A-SDRMS-M25<br>H10A-SDRMS-2PG16<br>H10A-SDRMS-2PG21<br>H10A-SDRMS-2M20<br>H10A-SDRMS-2M25 | 1 Side entry 2 Side entry | M20<br>M25<br><br>M20<br>M25 | PG16<br>PG21<br><br>PG16<br>PG21 | H16A-SDRS-PG16<br>H16A-SDRS-PG21<br>H16A-SDRS-M20<br>H16A-SDRS-M25<br>H16A-SDRS-2PG16<br>H16A-SDRS-2PG21<br>H16A-SDRS-2M20<br>H16A-SDRS-2M25 |
| Cable-to-cable hood | | | | Cable-to-cable hood | | | |
| Low construction High construction | M20<br>M25<br><br>M25 | PG16<br><br><br>PG21 | H10A-TBFS-PG16<br>H10A-TBFS-M20<br>H10A-TBFS-M25<br>H10A-TBFHS-PG21<br>H10A-TBFHS-M25 | Low construction High construction | M20<br>M25<br><br>M25 | PG16<br><br><br>PG21 | H16A-TBFS-PG16<br>H16A-TBFS-M20<br>H16A-TBFS-M25<br>H16A-TBFHS-PG21<br>H16A-TBFHS-M25 |

## HA series hoods/housings

| H32A metal hoods, housings | Metr. | PG | Type | H8A thermoplastic hoods, housings | Metr. | PG | Type |
|---|---|---|---|---|---|---|---|
| Hood: Side entry | | | | Hood: Side entry | | | |
| | M25<br>M32<br>M40 | PG21<br>PG29<br>PG36 | H32A-TS-PG21<br>H32A-TS-PG29<br>H32A-TS-PG36<br>H32A-TS-M25<br>H32A-TS-M32<br>H32A-TS-M40 | | M20 | PG16 | H8A-TS-PG16<br>H8A-TS-M20 |
| Hood: Top entry | | | | Hood: Top entry | | | |
| | M25<br>M32<br>M40 | PG21<br>PG29<br>PG36 | H32A-TG-PG21<br>H32A-TG-PG29<br>H32A-TG-PG36<br>H32A-TG-M25<br>H32A-TG-M32<br>H32A-TG-M40 | | M20 | PG16 | H8A-TG-PG16<br>H8A-TG-M20 |
| Bulkhead mounted | | | | Bulkhead mounted | | | |
| | | | H32A-AG | | | | H8A-AG |
| Surface mounted: Side entry | | | | | | | |
| | M25<br>M32<br><br><br>M25<br>M32 | PG21<br>PG29<br><br>PG21<br>PG29<br><br> | H32A-SGR-PG21<br>H32A-SGR-PG29<br>H32A-SGR-M25<br>H32A-SGR-M32<br>H32A-SGR-2PG21<br>H32A-SGR-2PG29<br>H32A-SGR-2M25<br>H32A-SGR-2M32 | | | | |



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

## 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<br>M25 | PG16<br>PG21 | H6B-TS-PG16<br>H6B-TS-PG21<br>H6B-TS-M20<br>H6B-TS-M25 | | | | H6B-AGS |
| | M20<br>M25<br>M32 | PG21<br>PG29 | H6B-TSH-PG21<br>H6B-TSH-PG29<br>H6B-TSH-M20<br>H6B-TSH-M25<br>H6B-TSH-M32 | | | | H6B-ADS |
| Hood: Top entry | | | | Surface mounted: Side entry | | | |
| | M20<br>M25 | PG16<br>PG21 | H6B-TG-PG16<br>H6B-TG-PG21<br>H6B-TG-M20<br>H6B-TG-M25 | 1 Side entry<br>Low construction<br>2 Side entry<br> <br>1 Side entry<br>High construction<br>2 Side entry | M20<br>M25<br><br>M20<br>M25<br><br>M25<br>M32<br><br>M25<br>M32 | PG16<br>PG21<br><br>PG16<br>PG21<br><br>PG21<br>PG29<br><br>PG21<br>PG29 | H6B-SGRS-PG16<br>H6B-SGRS-PG21<br>H6B-SGRS-M20<br>H6B-SGRS-M25<br>H6B-SGRS-2PG16<br>H6B-SGRS-2PG21<br>H6B-SGRS-2M20<br>H6B-SGRS-2M25<br>H6B-SGRHS-PG21<br>H6B-SGRHS-PG29<br>H6B-SGRHS-M25<br>H6B-SGRHS-M32<br>H6B-SGRHS-2PG21<br>H6B-SGRHS-2PG29<br>H6B-SGRHS-2M25<br>H6B-SGRHS-2M32 |
| | M20<br>M25<br>M32 | PG21<br>PG29 | H6B-TGH-PG21<br>H6B-TGH-PG29<br>H6B-TGH-M20<br>H6B-TGH-M25<br>H6B-TGH-M32 | 1 Side entry<br>Low construction<br>2 Side entry<br> <br>1 Side entry<br>High construction<br>2 Side entry | M20<br>M25<br><br>M20<br>M25<br><br>M25<br>M32<br><br>M25<br>M32 | PG16<br>PG21<br><br>PG16<br>PG21<br><br>PG21<br>PG29<br><br>PG21<br>PG29 | H6B-SDRS-PG16<br>H6B-SDRS-PG21<br>H6B-SDRS-M20<br>H6B-SDRS-M25<br>H6B-SDRS-2PG16<br>H6B-SDRS-2PG21<br>H6B-SDRS-2M20<br>H6B-SDRS-2M25<br>H6B-SDRHS-PG21<br>H6B-SDRHS-PG29<br>H6B-SDRHS-M25<br>H6B-SDRHS-M32<br>H6B-SDRHS-2PG21<br>H6B-SDRHS-2PG29<br>H6B-SDRHS-2M25<br>H6B-SDRHS-2M32 |
| Cable-to-cable hood | | | | | | | |
| Low construction<br> <br>High construction | M20<br>M25<br><br>M20<br>M25<br>M32 | PG16<br><br><br>PG21<br>PG29 | H6B-TBFS-PG16<br>H6B-TBFS-M20<br>H6B-TBFS-M25<br>H6B-TBFHS-PG21<br>H6B-TBFHS-PG29<br>H6B-TBFHS-M20<br>H6B-TBFHS-M25<br>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 |
|---|---|---|---|
| Hood: Side entry | | | |
| | M20<br>M25 | PG16<br>PG21 | H10B-TS-PG16<br>H10B-TS-PG21<br>H10B-TS-M20<br>H10B-TS-M25 |
| | M20<br>M25<br>M32 | PG21<br>PG29 | H10B-TSH-PG21<br>H10B-TSH-PG29<br>H10B-TSH-M20<br>H10B-TSH-M25<br>H10B-TSH-M32 |
| Hood: Top entry | | | |
| | M20<br>M25 | PG16<br>PG21 | H10B-TG-PG16<br>H10B-TG-PG21<br>H10B-TG-M20<br>H10B-TG-M25 |
| | M20<br>M25<br>M32 | PG21<br>PG29 | H10B-TGH-PG21<br>H10B-TGH-PG29<br>H10B-TGH-M20<br>H10B-TGH-M25<br>H10B-TGH-M32 |
| Cable-to-cable hood | | | |
| <br>Low construction High construction | M20<br>M25<br><br>M25<br>M32 | PG16<br><br>PG21<br>PG29 | H10B-TBFS-PG16<br>H10B-TBFS-M20<br>H10B-TBFS-M25<br>H10B-TBFHS-PG21<br>H10B-TBFHS-PG29<br>H10B-TBFHS-M25<br>H10B-TBFHS-M32 |
| Protection covers for hoods | | | |
| | | | H10B-KDTP |
| Housing protection cover | | | |
| | | | H10B-KDBP |

| H10B metal housings | Metr. | PG | Type |
|---|---|---|---|
| Bulkhead mounted | | | |
| | | | H10B-AGS |
| Surface mounted: Side entry | | | |
| <br>1 Side entry 2 Side entry<br>Low construction<br>1 Side entry 2 Side entry<br>High construction | M20<br>M25<br><br>M20<br>M25<br><br>M25<br>M32<br><br>M25<br>M32 | PG16<br>PG21<br><br><br>PG16<br>PG21<br><br><br>PG21<br>PG29<br><br><br>PG21<br>PG29 | H10B-SGRS-PG16<br>H10B-SGRS-PG21<br>H10B-SGRS-M20<br>H10B-SGRS-M25<br>H10B-SGRS-2PG16<br>H10B-SGRS-2PG21<br>H10B-SGRS-2M20<br>H10B-SGRS-2M25<br>H10B-SGRHS-PG21<br>H10B-SGRHS-PG29<br>H10B-SGRHS-M25<br>H10B-SGRHS-M32<br>H10B-SGRHS-2PG21<br>H10B-SGRHS-2PG29<br>H10B-SGRHS-2M25<br>H10B-SGRHS-2M32 |
| Side entry housing with two levers | | | |
| <br>Low construction<br>High construction | M20<br>M25<br><br>M25<br>M32 | PG16<br>PG21<br><br>PG21<br>PG29 | H10B-TSBS-PG16<br>H10B-TSBS-PG21<br>H10B-TSBS-M20<br>H10B-TSBS-M25<br>H10B-TSBHS-PG21<br>H10B-TSBHS-PG29<br>H10B-TSBHS-M25<br>H10B-TSBHS-M32 |
| Top entry housing with two levers | | | |
| <br>Low construction<br>High construction | M20<br>M25<br><br>M25<br>M32 | PG16<br>PG21<br><br>PG21<br>PG29 | H10B-TGBS-PG16<br>H10B-TGBS-PG21<br>H10B-TGBS-M20<br>H10B-TGBS-M25<br>H10B-TGBHS-PG21<br>H10B-TGBHS-PG29<br>H10B-TGBHS-M25<br>H10B-TGBHS-M32 |
| Bulkhead mounted with 4 bolts | | | |
| <br>1 Side entry 2 Side entry<br>Low construction<br> <br>1 Side entry 2 Side entry<br>High construction | <br><br>M20<br>M25<br><br>M20<br>M25<br><br>M25<br>M32<br><br>M25<br>M32 | <br><br>PG16<br>PG21<br><br>PG16<br>PG21<br><br>PG21<br>PG29<br><br>PG21<br>PG29 | H10B-AD-BO<br><br>H10B-SDR-BO-PG16<br>H10B-SDR-BO-PG21<br>H10B-SDR-BO-M20<br>H10B-SDR-BO-M25<br>H10B-SDR-BO-2PG16<br>H10B-SDR-BO-2PG21<br>H10B-SDR-BO-2M20<br>H10B-SDR-BO-2M25<br>H10B-SDRH-BO-PG21<br>H10B-SDRH-BO-PG29<br>H10B-SDRH-BO-M25<br>H10B-SDRH-BO-M32<br>H10B-SDRH-BO-2PG21<br>H10B-SDRH-BO-2PG29<br>H10B-SDRH-BO-2M25<br>H10B-SDRH-BO-2M32 |



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

## 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<br>M25 | PG16<br>PG21 | H10B-TS-RO-PG16<br>H10B-TS-RO-PG21<br>H10B-TS-RO-M20<br>H10B-TS-RO-M25 | | | | H10B-AG-LB |
| | M20<br>M25<br>M32 | PG21<br>PG29 | H10B-TSH-RO-PG21<br>H10B-TSH-RO-PG29<br>H10B-TSH-RO-M20<br>H10B-TSH-RO-M25<br>H10B-TSH-RO-M32 | | | | H10B-AD-LB |
| Hood: Top entry | | | | Surface mounted: Side entry | | | |
| | M20<br>M25 | PG16<br>PG21 | H10B-TG-RO-PG16<br>H10B-TG-RO-PG21<br>H10B-TG-RO-M20<br>H10B-TG-RO-M25 | | M20<br>M25<br><br><br>M20<br>M25<br><br><br>M25<br>M32<br><br><br>M25<br>M32 | PG16<br>PG21<br><br><br>PG16<br>PG21<br><br><br>PG21<br>PG29<br><br><br>PG21<br>PG29 | H10B-SGR-LB-PG16<br>H10B-SGR-LB-PG21<br>H10B-SGR-LB-M20<br>H10B-SGR-LB-M25<br>H10B-SGR-LB-2PG16<br>H10B-SGR-LB-2PG21<br>H10B-SGR-LB-2M20<br>H10B-SGR-LB-2M25<br>H10B-SGRH-LB-PG21<br>H10B-SGRH-LB-PG29<br>H10B-SGRH-LB-M25<br>H10B-SGRH-LB-M32<br>H10B-SGRH-LB-2PG21<br>H10B-SGRH-LB-2PG29<br>H10B-SGRH-LB-2M25<br>H10B-SGRH-LB-2M32 |
| | M20<br>M25<br>M32 | PG21<br>PG29 | H10B-TGH-RO-PG21<br>H10B-TGH-RO-PG29<br>H10B-TGH-RO-M20<br>H10B-TGH-RO-M25<br>H10B-TGH-RO-M32 | | M20<br>M25<br><br><br>M20<br>M25<br><br><br>M25<br>M32<br><br><br>M25<br>M32 | PG16<br>PG21<br><br><br>PG16<br>PG21<br><br><br>PG21<br>PG29<br><br><br>PG21<br>PG29 | H10B-SDR-LB-PG16<br>H10B-SDR-LB-PG21<br>H10B-SDR-LB-M20<br>H10B-SDR-LB-M25<br>H10B-SDR-LB-2PG16<br>H10B-SDR-LB-2PG21<br>H10B-SDR-LB-2M20<br>H10B-SDR-LB-2M25<br>H10B-SDRH-LB-PG21<br>H10B-SDRH-LB-PG29<br>H10B-SDRH-LB-M25<br>H10B-SDRH-LB-M32<br>H10B-SDRH-LB-2PG21<br>H10B-SDRH-LB-2PG29<br>H10B-SDRH-LB-2M25<br>H10B-SDRH-LB-2M32 |
| Cable-to-cable hood | | | | | | | |
| | M20<br>M25<br><br><br>M25<br>M32 | PG16<br><br><br>PG21<br>PG29 | H10B-TBF-LB-PG16<br>H10B-TBF-LB-M20<br>H10B-TBF-LB-M25<br>H10B-TBFH-LB-PG21<br>H10B-TBFH-LB-PG29<br>H10B-TBFH-LB-M25<br>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 |
|---|---|---|---|
| Hood: Side entry | | | |
| | M25<br>M32 | PG16<br>PG21 | H16B-TS-PG16<br>H16B-TS-PG21<br>H16B-TS-M25<br>H16B-TS-M32 |
| | M25<br>M32<br>M40 | PG21<br>PG29 | H16B-TSH-PG21<br>H16B-TSH-PG29<br>H16B-TSH-M25<br>H16B-TSH-M32<br>H16B-TSH-M40 |
| Hood: Top entry | | | |
| | M25<br>M32 | PG16<br>PG21 | H16B-TG-PG16<br>H16B-TG-PG21<br>H16B-TG-M25<br>H16B-TG-M32 |
| | M25<br>M32<br>M40 | PG21<br>PG29 | H16B-TGH-PG21<br>H16B-TGH-PG29<br>H16B-TGH-M25<br>H16B-TGH-M32<br>H16B-TGH-M40 |
| Cable-to-cable hood | | | |
| <br>Low construction<br>High construction | M25<br>M32<br><br>M25<br>M32<br>M40 | PG21<br><br><br>PG21<br>PG29 | H16B-TBFS-PG21<br>H16B-TBFS-M25<br>H16B-TBFS-M32<br>H16B-TBFHS-PG21<br>H16B-TBFHS-PG29<br>H16B-TBFHS-M25<br>H16B-TBFHS-M32<br>H16B-TBFHS-M40 |
| Protection covers for hoods | | | |
| | | | H16B-KDTP |
| Housing protection cover | | | |
| | | | H16B-KDBP |

| H16B metal housings | Metr. | PG | Type |
|---|---|---|---|
| Bulkhead mounted | | | |
| | | | H16B-AGS |
| Surface mounted: Side entry | | | |
| <br>1 Side entry Low construction<br>2 Side entry<br>1 Side entry High construction<br>2 Side entry | M25<br><br>M25<br><br><br>M25<br>M32<br><br><br>M25<br>M32 | PG21<br><br>PG21<br><br>PG21<br>PG29<br><br><br>PG21<br>PG29 | H16B-SGRS-PG21<br>H16B-SGRS-M25<br>H16B-SGRS-2PG21<br>H16B-SGRS-2M25<br>H16B-SGRHS-PG21<br>H16B-SGRHS-PG29<br>H16B-SGRHS-M25<br>H16B-SGRHS-M32<br>H16B-SGRHS-2PG21<br>H16B-SGRHS-2PG29<br>H16B-SGRHS-2M25<br>H16B-SGRHS-2M32 |
| Side entry housing with two levers | | | |
| <br>Low construction<br>High construction | M20<br>M25<br><br><br>M25<br>M32 | PG16<br>PG21<br><br><br>PG21<br>PG29 | H16B-TSBS-PG16<br>H16B-TSBS-PG21<br>H16B-TSBS-M20<br>H16B-TSBS-M25<br>H16B-TSBHS-PG21<br>H16B-TSBHS-PG29<br>H16B-TSBHS-M25<br>H16B-TSBHS-M32 |
| Top entry housing with two levers | | | |
| <br>Low construction<br>High construction | M20<br>M25<br><br><br>M25<br>M32 | PG16<br>PG21<br><br><br>PG21<br>PG29 | H16B-TGBS-PG16<br>H16B-TGBS-PG21<br>H16B-TGBS-M20<br>H16B-TGBS-M25<br>H16B-TGBHS-PG21<br>H16B-TGBHS-PG29<br>H16B-TGBHS-M25<br>H16B-TGBHS-M32 |
| Bulkhead mounted with 4 bolts | | | |
| | | | H16B-AD-BO |
| <br>1 Side entry Low construction<br>2 Side entry<br>1 Side entry High construction<br>2 Side entry | M25<br><br>M25<br><br><br>M25<br>M32<br><br><br>M25<br>M32 | PG21<br><br>PG21<br><br>PG21<br>PG29<br><br><br>PG21<br>PG29 | H16B-SDR-BO-PG21<br>H16B-SDR-BO-M25<br>H16B-SDR-BO-2PG21<br>H16B-SDR-BO-2M25<br>H16B-SDRH-BO-PG21<br>H16B-SDRH-BO-PG29<br>H16B-SDRH-BO-M25<br>H16B-SDRH-BO-M32<br>H16B-SDRH-BO-2PG21<br>H16B-SDRH-BO-2PG29<br>H16B-SDRH-BO-2M25<br>H16B-SDRH-BO-2M32 |



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## 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<br>M32 | PG21<br>PG29 | H16B-TS-RO-PG21<br>H16B-TS-RO-PG29<br>H16B-TS-RO-M25<br>H16B-TS-RO-M32 | | | | H16B-AG-LB |
| | M25<br>M32<br>M40 | PG21<br>PG29 | H16B-TSH-RO-PG21<br>H16B-TSH-RO-PG29<br>H16B-TSH-RO-M25<br>H16B-TSH-RO-M32<br>H16B-TSH-RO-M40 | | | | H16B-AD-LB |
| Hood: Top entry | | | | Surface mounted: Side entry | | | |
| | M25<br>M32 | PG21<br>PG29 | H16B-TG-RO-PG21<br>H16B-TG-RO-PG29<br>H16B-TG-RO-M25<br>H16B-TG-RO-M32 | 1 Side entry<br>Low construction<br>2 Side entry<br> <br>1 Side entry<br>High construction<br>2 Side entry | M20<br>M25<br><br>M20<br>M25<br><br>M25<br>M32<br><br>M25<br>M32 | PG16<br>PG21<br><br>PG16<br>PG21<br><br><br>PG21<br>PG29<br><br>PG21<br>PG29 | H16B-SGR-LB-PG16<br>H16B-SGR-LB-PG21<br>H16B-SGR-LB-M20<br>H16B-SGR-LB-M25<br>H16B-SGR-LB-2PG16<br>H16B-SGR-LB-2PG21<br>H16B-SGR-LB-2M20<br>H16B-SGR-LB-2M25<br>H16B-SGRH-LB-PG21<br>H16B-SGRH-LB-PG29<br>H16B-SGRH-LB-M25<br>H16B-SGRH-LB-M32<br>H16B-SGRH-LB-2PG21<br>H16B-SGRH-LB-2PG29<br>H16B-SGRH-LB-2M25<br>H16B-SGRH-LB-2M32 |
| | M25<br>M32<br>M40 | PG21<br>PG29 | H16B-TGH-RO-PG21<br>H16B-TGH-RO-PG29<br>H16B-TGH-RO-M25<br>H16B-TGH-RO-M32<br>H16B-TGH-RO-M40 | 1 Side entry<br>Low construction<br>2 Side entry<br> <br>1 Side entry<br>High construction<br>2 Side entry | M20<br>M25<br><br>M20<br>M25<br><br>M25<br>M32<br><br>M25<br>M32 | PG16<br>PG21<br><br>PG16<br>PG21<br><br><br>PG21<br>PG29<br><br>PG21<br>PG29 | H16B-SDR-LB-PG16<br>H16B-SDR-LB-PG21<br>H16B-SDR-LB-M20<br>H16B-SDR-LB-M25<br>H16B-SDR-LB-2PG16<br>H16B-SDR-LB-2PG21<br>H16B-SDR-LB-2M20<br>H16B-SDR-LB-2M25<br>H16B-SDRH-LB-PG21<br>H16B-SDRH-LB-PG29<br>H16B-SDRH-LB-M25<br>H16B-SDRH-LB-M32<br>H16B-SDRH-LB-2PG21<br>H16B-SDRH-LB-2PG29<br>H16B-SDRH-LB-2M25<br>H16B-SDRH-LB-2M32 |
| Cable-to-cable hood | | | | | | | |
| Low construction<br> <br>High construction | M25<br>M32<br><br>M25<br>M32<br>M40 | PG21<br>PG29<br><br>PG21<br>PG29 | H16B-TBF-LB-PG21<br>H16B-TBF-LB-PG29<br>H16B-TBF-LB-M25<br>H16B-TBF-LB-M32<br>H16B-TBFH-LB-PG21<br>H16B-TBFH-LB-PG29<br>H16B-TBFH-LB-M25<br>H16B-TBFH-LB-M32<br>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<br>M32 | PG16<br>PG21 | H24B-TS-PG16<br>H24B-TS-PG21<br>H24B-TS-M25<br>H24B-TS-M32 | | | | H24B-AGS |
| | M25<br>M32<br>M40 | PG21<br>PG29 | H24B-TSH-PG21<br>H24B-TSH-PG29<br>H24B-TSH-M25<br>H24B-TSH-M32<br>H24B-TSH-M40 | Surface mounted: Side entry | | | |
| | | | | | M25<br>M25<br>M25<br>M32<br>M25<br>M32 | PG21<br>PG21<br>PG21<br>PG29<br>PG21<br>PG29 | H24B-SGRS-PG21<br>H24B-SGRS-M25<br>H24B-SGRS-2PG21<br>H24B-SGRS-2M25<br>H24B-SGRHS-PG21<br>H24B-SGRHS-PG29<br>H24B-SGRHS-M25<br>H24B-SGRHS-M32<br>H24B-SGRHS-2PG21<br>H24B-SGRHS-2PG29<br>H24B-SGRHS-2M25<br>H24B-SGRHS-2M32 |
| Hood: Top entry | | | | Side entry housing with two levers | | | |
| | M25<br>M32 | PG16<br>PG21 | H24B-TG-PG16<br>H24B-TG-PG21<br>H24B-TG-M25<br>H24B-TG-M32 | | M20<br>M25<br>M25<br>M32 | PG16<br>PG21<br>PG21<br>PG29 | H24B-TSBS-PG16<br>H24B-TSBS-PG21<br>H24B-TSBS-M20<br>H24B-TSBS-M25<br>H24B-TSBHS-PG21<br>H24B-TSBHS-PG29<br>H24B-TSBHS-M25<br>H24B-TSBHS-M32 |
| | | | | Top entry housing with two levers | | | |
| | M25<br>M32<br>M40 | PG21<br>PG29 | H24B-TGH-PG21<br>H24B-TGH-PG29<br>H24B-TGH-M25<br>H24B-TGH-M32<br>H24B-TGH-M40 | | M20<br>M25<br>M25<br>M32 | PG16<br>PG21<br>PG21<br>PG29 | H24B-TGBS-PG16<br>H24B-TGBS-PG21<br>H24B-TGBS-M20<br>H24B-TGBS-M25<br>H24B-TGBHS-PG21<br>H24B-TGBHS-PG29<br>H24B-TGBHS-M25<br>H24B-TGBHS-M32 |
| Cable-to-cable hood | | | | Bulkhead mounted with 4 bolts | | | |
| | M25<br>M32<br>M25<br>M32<br>M40 | PG21<br>PG21<br>PG29 | H24B-TBFS-PG21<br>H24B-TBFS-M25<br>H24B-TBFS-M32<br>H24B-TBFHS-PG21<br>H24B-TBFHS-PG29<br>H24B-TBFHS-M25<br>H24B-TBFHS-M32<br>H24B-TBFHS-M40 | | | | H24B-AD-BO |
| Protection covers for hoods | | | | | | | |
| | | | H24B-KDTP | | M25<br>M25<br>M25<br>M32<br>M25<br>M32 | PG21<br>PG21<br>PG21<br>PG29<br>PG21<br>PG29 | H24B-SDR-BO-PG21<br>H24B-SDR-BO-M25<br>H24B-SDR-BO-2PG21<br>H24B-SDR-BO-2M25<br>H24B-SDRH-BO-PG21<br>H24B-SDRH-BO-PG29<br>H24B-SDRH-BO-M25<br>H24B-SDRH-BO-M32<br>H24B-SDRH-BO-2PG21<br>H24B-SDRH-BO-2PG29<br>H24B-SDRH-BO-2M25<br>H24B-SDRH-BO-2M32 |
| Housing protection cover | | | | | | | |
| | | | H24B-KDBP | | | | |



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Contact TE for assistance with any part number configuration.

## H24B with 1 lever on the hoods/housings

| H24B metal hoods | Metr. | PG | Type |
|---|---|---|---|
| Hood: Side entry | | | |
| | M25<br>M32 | PG21<br>PG29 | H24B-TS-RO-PG21<br>H24B-TS-RO-PG29<br>H24B-TS-RO-M25<br>H24B-TS-RO-M32 |
| | M25<br>M32<br>M40 | PG21<br>PG29 | H24B-TSH-RO-PG21<br>H24B-TSH-RO-PG29<br>H24B-TSH-RO-M25<br>H24B-TSH-RO-M32<br>H24B-TSH-RO-M40 |
| Hood: Top entry | | | |
| | M25<br>M32 | PG21<br>PG29 | H24B-TG-RO-PG21<br>H24B-TG-RO-PG29<br>H24B-TG-RO-M25<br>H24B-TG-RO-M32 |
| | M25<br>M32<br>M40 | PG21<br>PG29 | H24B-TGH-RO-PG21<br>H24B-TGH-RO-PG29<br>H24B-TGH-RO-M25<br>H24B-TGH-RO-M32<br>H24B-TGH-RO-M40 |
| Cable-to-cable hood | | | |
| | M25<br>M32<br><br>M25<br>M32<br>M40 | PG21<br>PG29<br><br>PG21<br>PG29 | H24B-TBF-LB-PG21<br>H24B-TBF-LB-PG29<br>H24B-TBF-LB-M25<br>H24B-TBF-LB-M32<br>H24B-TBFH-LB-PG21<br>H24B-TBFH-LB-PG29<br>H24B-TBFH-LB-M25<br>H24B-TBFH-LB-M32<br>H24B-TBFH-LB-M40 |
| Protection covers for hoods | | | |
| | | | H24B-KDTP-LB |

| H24B metal housings | Metr. | PG | Type |
|---|---|---|---|
| Bulkhead mounted | | | |
| | | | H24B-AG-LB |
| | | | H24B-AD-LB |
| Surface mounted: Side entry | | | |
| | M20<br>M25<br><br>M20<br>M25<br><br>M25<br>M32<br><br>M25<br>M32 | PG16<br>PG21<br><br>PG16<br>PG21<br><br>PG21<br>PG29<br><br>PG21<br>PG29 | H24B-SGR-LB-PG16<br>H24B-SGR-LB-PG21<br>H24B-SGR-LB-M20<br>H24B-SGR-LB-M25<br>H24B-SGR-LB-2PG16<br>H24B-SGR-LB-2PG21<br>H24B-SGR-LB-2M20<br>H24B-SGR-LB-2M25<br>H24B-SGRH-LB-PG21<br>H24B-SGRH-LB-PG29<br>H24B-SGRH-LB-M25<br>H24B-SGRH-LB-M32<br>H24B-SGRH-LB-2PG21<br>H24B-SGRH-LB-2PG29<br>H24B-SGRH-LB-2M25<br>H24B-SGRH-LB-2M32 |
| | M20<br>M25<br><br>M20<br>M25<br><br>M25<br>M32<br><br>M25<br>M32 | PG16<br>PG21<br><br>PG16<br>PG21<br><br>PG21<br>PG29<br><br>PG21<br>PG29 | H24B-SDR-LB-PG16<br>H24B-SDR-LB-PG21<br>H24B-SDR-LB-M20<br>H24B-SDR-LB-M25<br>H24B-SDR-LB-2PG16<br>H24B-SDR-LB-2PG21<br>H24B-SDR-LB-2M20<br>H24B-SDR-LB-2M25<br>H24B-SDRH-LB-PG21<br>H24B-SDRH-LB-PG29<br>H24B-SDRH-LB-M25<br>H24B-SDRH-LB-M32<br>H24B-SDRH-LB-2PG21<br>H24B-SDRH-LB-2PG29<br>H24B-SDRH-LB-2M25<br>H24B-SDRH-LB-2M32 |

## H32B with 2 levers on the hoods/housings

| H32B with 2 levers on the hoods, housings | Metr. | PG | Type |
|---|---|---|---|
| Hood: Side entry | | | |
| | M25<br>M32<br>M40<br>M50 | PG29<br>PG36 | H32B-TS-PG29<br>H32B-TS-PG36<br>H32B-TS-M25<br>H32B-TS-M32<br>H32B-TS-M40<br>H32B-TS-M50 |
| Hood: Top entry | | | |
| | M25<br>M32<br>M40<br>M50 | PG29<br>PG36<br>PG42 | H32B-TG-PG29<br>H32B-TG-PG36<br>H32B-TG-PG42<br>H32B-TG-M25<br>H32B-TG-M32<br>H32B-TG-M40<br>H32B-TG-M50 |
| Bulkhead mounted | | | |
| | | | H32B-AG |
| Surface mounted: Side entry | | | |
| | M32<br>M40<br>M50<br>M63<br><br><br><br>M32<br>M40<br>M50<br>M63 | PG29<br>PG36<br>PG42<br><br><br><br>PG29<br>PG36<br>PG42 | H32B-SGR-PG29<br>H32B-SGR-PG36<br>H32B-SGR-PG42<br>H32B-SGR-M32<br>H32B-SGR-M40<br>H32B-SGR-M50<br>H32B-SGR-M63<br>H32B-SGR-2PG29<br>H32B-SGR-2PG36<br>H32B-SGR-2PG42<br>H32B-SGR-2M32<br>H32B-SGR-2M40<br>H32B-SGR-2M50<br>H32B-SGR-2M63 |
| Cable-to-cable hood | | | |
| | M32<br>M40<br>M50<br>M63 | PG29<br>PG36<br>PG42 | H32B-TBF-PG29<br>H32B-TBF-PG36<br>H32B-TBF-PG42<br>H32B-TBF-M32<br>H32B-TBF-M40<br>H32B-TBF-M50<br>H32B-TBF-M63 |
| Protection covers for hoods | | | |
| | | | H32B-KDB |

| H32B with 1 levers on the hoods, housings | Metr. | PG | Type |
|---|---|---|---|
| Hood: Side entry | | | |
| | M25<br>M32<br>M40<br>M50 | PG29<br>PG36 | H32B-TS-RO-PG29<br>H32B-TS-RO-PG36<br>H32B-TS-RO-M25<br>H32B-TS-RO-M32<br>H32B-TS-RO-M40<br>H32B-TS-RO-M50 |
| Hood: Top entry | | | |
| | M25<br>M32<br>M40<br>M50 | PG29<br>PG36<br>PG42 | H32B-TG-RO-PG29<br>H32B-TG-RO-PG36<br>H32B-TG-RO-PG42<br>H32B-TG-RO-M25<br>H32B-TG-RO-M32<br>H32B-TG-RO-M40<br>H32B-TG-RO-M50 |
| Bulkhead mounted | | | |
| | | | H32B-AG-LB |
| | | | H32B-AD-LB |
| Surface mounted: Side entry | | | |
| | M32<br>M40<br><br>M32<br>M40 | PG29<br><br>PG29 | H32B-SGR-LB-PG29<br>H32B-SGR-LB-M32<br>H32B-SGR-LB-M40<br>H32B-SGR-LB-2PG29<br>H32B-SGR-LB-2M32<br>H32B-SGR-LB-2M40 |
| | M32<br>M40<br><br>M32<br>M40 | PG29<br><br>PG29 | H32B-SDR-LB-PG29<br>H32B-SDR-LB-M32<br>H32B-SDR-LB-M40<br>H32B-SDR-LB-2PG29<br>H32B-SDR-LB-2M32<br>H32B-SDR-LB-2M40 |



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

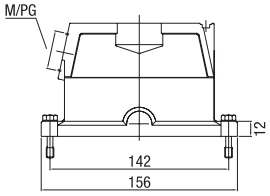
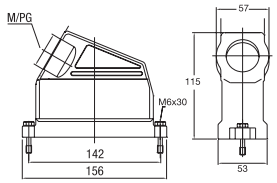
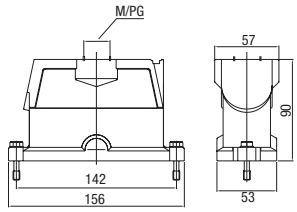
## H48B series hoods/housings

| H48B metal hoods | Metr. | PG | Type | EMC metal hoods | Metr. | PG | Type |
|---|---|---|---|---|---|---|---|
| Hood: Side entry | | | | Hood: Side entry | | | |
| | M32<br>M40<br>M50<br>M63 | PG29<br>PG36<br>PG42 | H48B-TS-PG29<br>H48B-TS-PG36<br>H48B-TS-PG42<br>H48B-TS-M32<br>H48B-TS-M40<br>H48B-TS-M50<br>H48B-TS-M63 | | | | H6B-TSH-EMCS<br>H10B-TSH-EMCS<br>H16B-TSH-EMCS<br>H24B-TSH-EMCS |
| Hood: Top entry | | | | Hood: Top entry | | | |
| | M32<br>M40<br>M50<br>M63 | PG29<br>PG36<br>PG42 | H48B-TG-PG29<br>H48B-TG-PG36<br>H48B-TG-PG42<br>H48B-TG-M32<br>H48B-TG-M40<br>H48B-TG-M50<br>H48B-TG-M63 | | | | H6B-TGH-EMCS<br>H10B-TGH-EMCS<br>H16B-TGH-EMCS<br>H24B-TGH-EMCS |
| Bulkhead mounted | | | | Bulkhead mounted | | | |
| | | | H48B-AG | | | | H6B-AG-EMCS<br>H10B-AG-EMCS<br>H16B-AG-EMCS<br>H24B-AG-EMCS |
| | | | | Hood: Side entry | | | |
| | | | H48B-AD-LB | | | | H3A-MTS-EMC-M20<br>H3A-MTS-EMC-PG11<br>H6B-TSBHS-EMC<br>H10B-TSBHS-EMC<br>H16B-TSBHS-EMC<br>H24B-TSBHS-EMC |
| Surface mounted: Side entry | | | | Hood: Top entry | | | |
| 1 Side entry<br>2 Side entry<br> | M32<br>M40<br>M50<br><br><br><br>M32<br>M40<br>M50 | PG29<br>PG36<br>PG42<br><br><br>PG29<br>PG36<br>PG42 | H48B-SGR-PG29<br>H48B-SGR-PG36<br>H48B-SGR-PG42<br>H48B-SGR-M32<br>H48B-SGR-M40<br>H48B-SGR-M50<br>H48B-SGR-2PG29<br>H48B-SGR-2PG36<br>H48B-SGR-2PG42<br>H48B-SGR-2M32<br>H48B-SGR-2M40<br>H48B-SGR-2M50 | | | | H3A-MTG-EMC-PG11<br>H3A-MTG-EMC-M20<br>H6B-TGBHS-EMC<br>H10B-TGBHS-EMC<br>H16B-TGBHS-EMC<br>H24B-TGBHS-EMC |
| Surface mounted with cover | | | | Bulkhead mounted | | | |
| 1 Side entry<br>2 Side entry<br> | M32<br>M40<br>M50<br><br><br><br>M32<br>M40<br>M50 | PG29<br>PG36<br>PG42<br><br><br>PG29<br>PG36<br>PG42 | H48B-SDR-PG29<br>H48B-SDR-PG36<br>H48B-SDR-PG42<br>H48B-SDR-M32<br>H48B-SDR-M40<br>H48B-SDR-M50<br>H48B-SDR-2PG29<br>H48B-SDR-2PG36<br>H48B-SDR-2PG42<br>H48B-SDR-2M32<br>H48B-SDR-2M40<br>H48B-SDR-2M50 | | | | H3A-MAG-S-EMC<br>H3A-MAG-EMC<br>H3A-MAGS-EMC<br>H6B-AG-BO-EMC<br>H10B-AG-BO-EMC<br>H16B-AG-BO-EMC<br>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<br>29 | **HIP**<br>HIP.24/64.STS.1.21.G<br>HIP.24/64.STS.1.29 G<br>HIP.24/64.STS.1.M40.G | 1-1102658-5<br>1-1102660-5<br>0-1106473-2 |
| | | M40 | 29 | **HIP-K**<br>HIP-K.24/64.STS.1.29.G<br>HIP-K.24/64.STS.1.M40.G | 2-1102660-5<br>0-1106473-4 |
| | | M25<br>M32<br>M40 | 29 | **EMV-K**<br>EMV-K.24/64.STS.1.29.G<br>EMV-K.24/64.STS.1.M25.G<br>EMV-K.24/64.STS.1.M32.G<br>EMV-K.24/64.STS.1.M40.G | 4-1102755-5<br>0-1102983-1<br>0-1106461-8<br>0-1106461-3 |
| |  | M40 | 29<br>36 | **HIP**<br>HIP-KF.24/64.STS.1.29.G<br>HIP-KF.24/64.STS.1.36.G<br>HIP-KF.24/64.STS.1.M40.G | 1-1102622-5<br>1-1102623-5<br>0-1106474-1 |
| | | M40 | 29<br>36 | **HIP-K**<br>HIP-KF/K.24/64.STS.1.29.G<br>HIP-KF/K. 24/64.STS.1.36G<br>HIP-KF/K.24/64.STS.1.M40.G | 2-1102622-5<br>2-1102623-5<br>0-1106474-2 |
| | | M40 | 29<br>36 | **EMV-K**<br>EMV-KF/K.24/64.STS.1.29.G<br>EMV-KF/K.24/64.STS.1.36.G<br>EMV-KF/K.24/64.STS.1.M40.G | 4-1102732-5<br>4-1102733-5<br>0-1106462-2 |
| **Hood:** Top entry, Standard construction | | | | | |
| |  | M40 | 21<br>29 | **HIP**<br>HIP.24/64.STO.1.21.G<br>HIP.24/64.STO.1.29.G<br>HIP.24/64.STO.1.M40.G | 1-1102662-5<br>1-1102664-5<br>0-1106473-1 |
| | | 2xM32<br>M40 | 29 | **HIP-K**<br>HIP-K.24/64.STO.1.29.G<br>HIP-K.24/64.STO.2.M32.G<br>HIP-K.24/64.STO.1.M40.G | 2-1102664-5<br>0-1102792-1<br>0-1106473-3 |
| | | M40<br>2xM40 | 29 | **EMV-K**<br>EMV-K.24/64.STO.1.29.G<br>EMV-K.24/64.STO.1.M40.G | 4-1102759-5<br>0-1106461-4 |
| | | 2xM40 | | | |
| | | 2xM40 | | | |

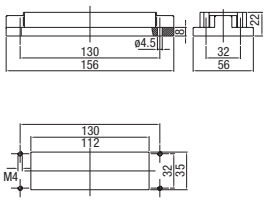
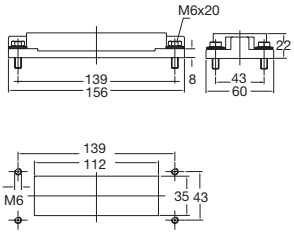
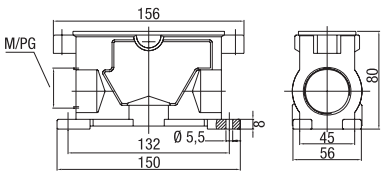
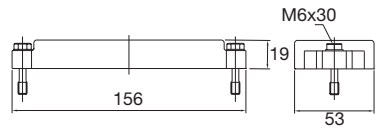


All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

## 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

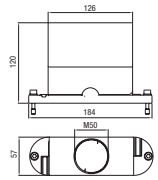
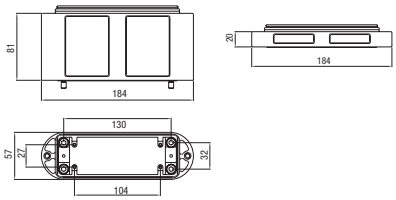
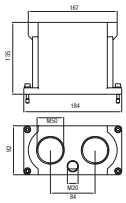
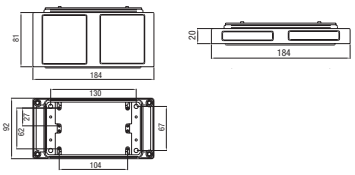
**Pressure-tight up to 5 bar** **IP 68 / IP 69 K**

| Description | | Metr. | PG | Type | Part Number |
|---|---|---|---|---|---|
| **Surface mounted housing:** Bottom entry, Standard construction | | | | | |
| |  | | | **HIP**<br>HIP.24/64.AG<br><br>**HIP-K**<br>HIP-K.24/64.AG<br><br>**EMV-K**<br>EMV-K.24/64.AG | <br>1-1102665-5<br><br><br>2-1102665-5<br><br><br>4-1102760-5 |
| |  | | | **HIP**<br>HIP.24/64.AG.M6<br><br>**HIP-K**<br>HIP-K.24/64.AG.M6<br>HIP-K.24/64.AG.M6.D<br>HIP-K-I.24/64.AG.M6.D<br><br>**EMV-K**<br>EMV-K.24/64.AG.M6 | <br>1-1102626-5<br><br><br>2-1102626-5<br>2-1102628-5<br>0-1108533-1<br><br><br>4-1102736-5 |
| **Surface mounted housing:** Side entry, Standard construction | | | | | |
| |  | 2xM40<br><br><br><br><br>2xM40<br><br><br><br>2xM40 | 29<br>2x29<br><br><br>29<br>2x29<br><br><br>29<br>2x29 | **HIP**<br>HIP.24/64.SG.1.29.G<br>HIP.24/64.SG.2.29.G<br>HIP.24/64.SG.2.M40.G<br><br>**HIP-K**<br>HIP-K.24/64.SG.1.29.G<br>HIP-K.24/64.SG.2.29.G<br>HIP-K.24/64.SG.2.M40.G<br><br>**EMV-K**<br>EMV-K.24/64.SG.1.29.G<br>EMV-K.24/64.SG.2.29.G<br>EMV-K.24/64.SG.2.M40.G | <br>1-1102624-5<br>1-1102625-5<br>0-1106472-1<br><br><br>5-1102624-5<br>2-1102625-5<br>0-1106472-2<br><br><br>4-1102734-5<br>4-1102735-5<br>0-1106460-2 |
| **Protective cover housings** | | | | | |
| |  | | | **HIP**<br>HIP/EMV.24/64.SKB<br><br>**HIP-K/EMV-K**<br>HIP-K/EMV-K.24/64.SKB | <br>3-1106204-5<br><br><br>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, IP68 - IP69K,
housings corrosion-resistant, black

### Screw lock on hood

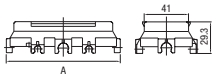
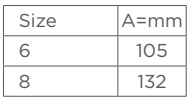
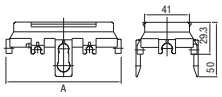
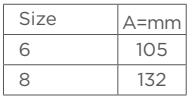
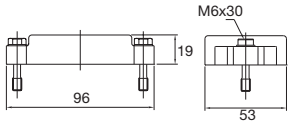
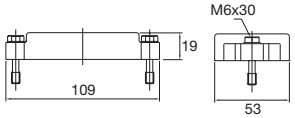
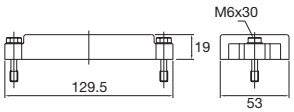
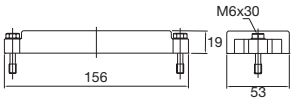
| Description | | Metr. | PG | Type | Part Number |
|---|---|---|---|---|---|
| Hood | | | | | |
| |  | 1xM50<br>1xM50<br>2xM40<br>2xM40 | | HF-HIP-K.8.Sto.1.M50G<br>HF.8.EMV-K.8.Sto.1.M50G<br>HF.HIP-K.8.Sto.2.M40G<br>HF.EMV-K.8.Sto.2.M40G | 0-1102839-4<br>0-1102839-3<br>0-1102839-2<br>0-1102839-1 |
| Housing bottom | | | | | |
| |  | **Height** | | | |
| | | 81 mm<br>81 mm | 20 mm<br>20 mm | HF-HIP-K.8.AG.N<br>HF-EMV-K.8.AG.N<br>HF-HIP-K.8.AG<br>HF-EMV-K.8.AG | 0-1102837-2<br>0-1102837-1<br>0-1102836-2<br>0-1102836-1 |
| Hood | | | | | |
| |  | 2xM40<br>2xM40<br>2xM50<br>2xM50 | | HF-HIP-K.12.Sto.2.M40G<br>HF-EMV-K.12.Sto.2.M40G<br>HF-HIP-K.12.Sto.2.M50G<br>HF-EMV-K.12.Sto.2.M50G | 0-1102840-2<br>0-1102840-1<br>0-1102840-4<br>0-1102840-3 |
| Housing bottom | | | | | |
| |  | **Height** | | | |
| | | 81 mm<br>81 mm | 20 mm<br>20 mm | HF-HIP-K.12.AG.N<br>HF-EMV-K.12.AG.N<br>HF-HIP-K.12.AG<br>HF-EMVK-K.12.AG | 0-1102838-2<br>0-1102838-1<br>0-1102192-2<br>0-1102192-1 |



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

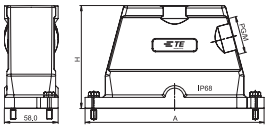
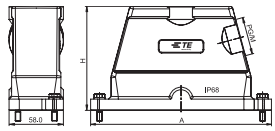
## Protective covers for hoods/housings

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 | | | |
| Size 6/8 |    | SKP.6<br>SKP.8<br><br>with attachment string<br>SKP.6.F<br>SKP.8.F | 0-1110684-3<br>0-1110661-3<br><br><br>0-1106258-3<br>0-1106258-4 |
| Protective cover for hoods with central locking clip | | | |
| Size 6/8 |    | SKP.6/R<br>SKP.8/R<br><br>with attachment string<br>SKP.6/R.F<br>SKP.8/R.F | 0-1110684-4<br>0-1110661-4<br><br><br>0-1106259-3<br>0-1106259-4 |
| Protective covers for housings series HIP, EMV, EMV-K | | | |
| |   | **HIP**<br>HIP/EMV.6/16.SKB<br><br>**HIP-K**<br>HIP-K/EMV-K.6/16.SKB | <br>3-1106201-5<br><br><br>4-1106201-5 |
| |   | **HIP**<br>HIP/EMV.10/24.SKB<br><br>**HIP-K/EMV-K**<br>HIP-K/EMV-K.10/24.SKB | <br>3-1106202-5<br><br><br>4-1106202-5 |
| |   | **HIP**<br>HIP/EMV.16/40.SKB<br><br>**HIP-K**<br>HIP-K.16/40.SKB | <br>3-1106203-5<br><br><br>4-1106203-5 |
| |   | **HIP**<br>HIP/EMV.24/64.SKB<br><br>**HIP-K/EMV-K**<br>HIP-K/EMV-K.24/64.SKB | <br>3-1106204-5<br><br><br>4-1106204-5 |

# HPR (IP68) series hoods/housings

## HBPR (IP68) SERIES

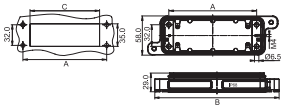
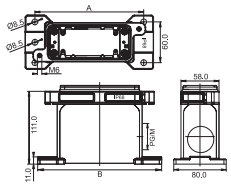
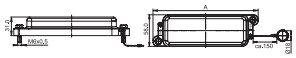
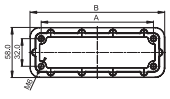
| Opposite angle locking | | Size | Metr. | PG | Type | Part Number |
|---|---|---|---|---|---|---|
| Hood: Side entry | | | | | | |
| |  <br>SIZE / A / H<br>H6BPR 133 101<br>H10BPR 146 101<br>H16BPR 166 111<br>H24BPR 193 111 | H6BPR | M20 | PG16 | H6BPR-TSH-PG16 | T1910060116-000 |
| | | | | PG21 | H6BPR-TSH-PG21 | T1910060121-000 |
| | | | | PG29 | H6BPR-TSH-PG29 | T1910060129-000 |
| | | | M25 | | H6BPR-TSH-M20 | T1910060120-000 |
| | | | M32 | | H6BPR-TSH-M25 | T1910060125-000 |
| | | | | | H6BPR-TSH-M32 | T1910060132-000 |
| | | H10BPR | M20 | PG16 | H10BPR-TSH-PG16 | T1910100116-000 |
| | | | | PG21 | H10BPR-TSH-PG21 | T1910100121-000 |
| | | | | PG29 | H10BPR-TSH-PG29 | T1910100129-000 |
| | | | M25 | | H10BPR-TSH-M20 | T1910100120-000 |
| | | | M32 | | H10BPR-TSH-M25 | T1910100125-000 |
| | | | | | H10BPR-TSH-M32 | T1910100132-000 |
| | | H16BPR | M25 | PG16 | H16BPR-TSH-PG16 | T1910160116-000 |
| | | | | PG21 | H16BPR-TSH-PG21 | T1910160121-000 |
| | | | | PG29 | H16BPR-TSH-PG29 | T1910160129-000 |
| | | | M32 | | H16BPR-TSH-M25 | T1910160125-000 |
| | | | M40 | | H16BPR-TSH-M32 | T1910160132-000 |
| | | | | | H16BPR-TSH-M40 | T1910160140-000 |
| | | H24BPR | M25 | PG16 | H24BPR-TSH-PG16 | T1910240116-000 |
| | | | | PG21 | H24BPR-TSH-PG21 | T1910240121-000 |
| | | | | PG29 | H24BPR-TSH-PG29 | T1910240129-000 |
| | | | M32 | | H24BPR-TSH-M25 | T1910240125-000 |
| | | | M40 | | H24BPR-TSH-M32 | T1910240132-000 |
| | | | | | H24BPR-TSH-M40 | T1910240140-000 |
| Hood: Top entry | | | | | | |
| |  <br>SIZE / A / H<br>H6BPR 133 101<br>H10BPR 146 101<br>H16BPR 166 111<br>H24BPR 193 111 | H6BPR | M20 | PG16 | H6BPR-TGH-PG16 | T1920060116-000 |
| | | | | PG21 | H6BPR-TGH-PG21 | T1920060121-000 |
| | | | | PG29 | H6BPR-TGH-PG29 | T1920060129-000 |
| | | | M25 | | H6BPR-TGH-M20 | T1920060120-000 |
| | | | M32 | | H6BPR-TGH-M25 | T1920060125-000 |
| | | | | | H6BPR-TGH-M32 | T1920060132-000 |
| | | H10BPR | M20 | PG16 | H10BPR-TGH-PG16 | T1920100116-000 |
| | | | | PG21 | H10BPR-TGH-PG21 | T1920100121-000 |
| | | | | PG29 | H10BPR-TGH-PG29 | T1920100129-000 |
| | | | M25 | | H10BPR-TGH-M20 | T1920100120-000 |
| | | | M32 | | H10BPR-TGH-M25 | T1920100125-000 |
| | | | | | H10BPR-TGH-M32 | T1920100132-000 |
| | | H16BPR | M25 | PG16 | H16BPR-TGH-PG16 | T1920160116-000 |
| | | | | PG21 | H16BPR-TGH-PG21 | T1920160121-000 |
| | | | | PG29 | H16BPR-TGH-PG29 | T1920160129-000 |
| | | | M32 | | H16BPR-TGH-M25 | T1920160125-000 |
| | | | M40 | | H16BPR-TGH-M32 | T1920160132-000 |
| | | | | | H16BPR-TGH-M40 | T1920160140-000 |
| | | H24BPR | M25 | PG16 | H24BPR-TGH-PG16 | T1920240116-000 |
| | | | | PG21 | H24BPR-TGH-PG21 | T1920240121-000 |
| | | | | PG29 | H24BPR-TGH-PG29 | T1920240129-000 |
| | | | M32 | | H24BPR-TGH-M25 | T1920240125-000 |
| | | | M40 | | H24BPR-TGH-M32 | T1920240132-000 |
| | | | | | H24BPR-TGH-M40 | T1920240140-000 |



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

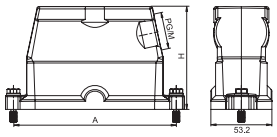
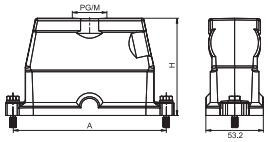
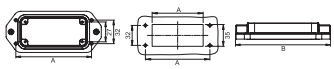
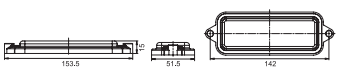
# HPR (IP68) series hoods/housings

## HBPR (IP68) SERIES

| Opposite angle locking | | Size | Metr. | PG | Type | Part Number |
|---|---|---|---|---|---|---|
| Bulkhead mounted | | | | | | |
| |  <br>SIZE / A / B / C<br>H6BPR / 70 / 133 / 48<br>H10BPR / 83 / 146 / 60<br>H16BPR / 103 / 166 / 82<br>H24BPR / 130 / 193 / 108 | H6BPR<br>H10BPR<br>H16BPR<br>H24BPR | | | H6BPR-AG<br>H10BPR-AG<br>H16BPR-AG<br>H24BPR-AG | T1930060000-000<br>T1930100000-000<br>T1930160000-000<br>T1930240000-000 |
| Straight surface mounted | | | | | | |
| |  <br>SIZE / A / B<br>H10BPR / 140 / 169 | H6BPR<br>H10BPR<br>H16BPR<br>H24BPR | M25<br>M32 | PG21<br>PG29 | H10BPR-SGRH-PG21<br>H10BPR-SGRH-PG29<br>H10BPR-SGRH-M25<br>H10BPR-SGRH-M32 | T1950100121-000<br>T1950100129-000<br>T1950100125-000<br>T1950100132-000 |
| Cover | | | | | | |
| |  <br>SIZE / A<br>H6BPR / 133<br>H10BPR / 146<br>H16BPR / 166<br>H24BPR / 193 | H6BPR<br>H10BPR<br>H16BPR<br>H24BPR | | | H6BPR-KDB<br>H10BPR-KDB<br>H16BPR-KDB<br>H24BPR-KDB | T1990060000-000<br>T1990100000-000<br>T1990160000-000<br>T1990240000-000 |
| Frame | | | | | | |
| |  <br>SIZE / A / B<br>H24BPR / 130 / 156 | H24BPR | | | H24BPR-FRAME | T1990240001-000 |

# HPR (IP68) series hoods/housings

## HBPR (IP68) SERIES

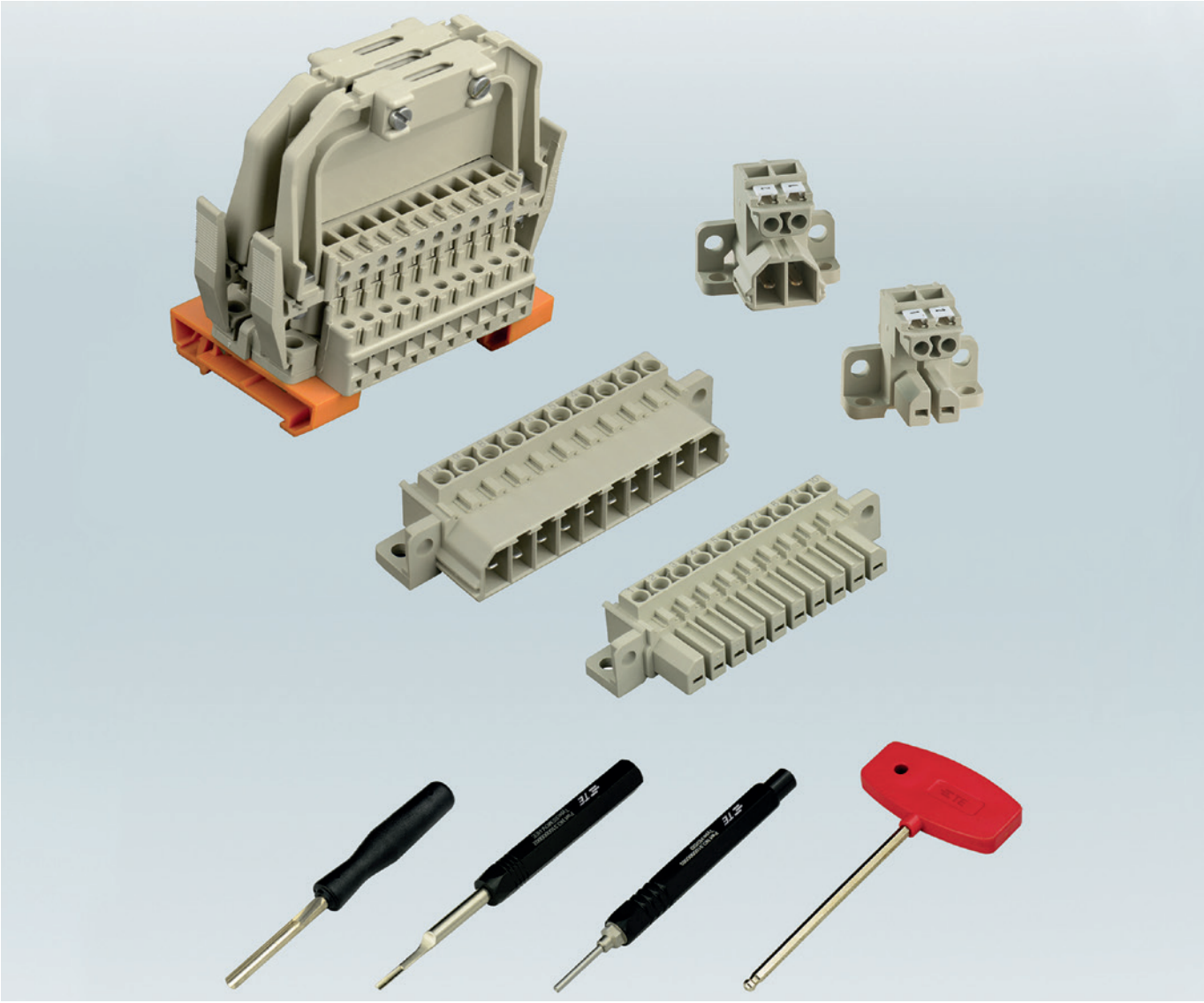
| Central locking | | Size | Metr. | PG | Type | Part Number |
|---|---|---|---|---|---|---|
| Hood: Side entry | | | | | | |
| |  <br>SIZE / A / H<br>H6BPR 96 70<br>H10BPR 110 70<br>H16BPR 130 80<br>H24BPR 156 80 | H6BPR | | PG21 | H6BPR-TSHC-PG21 | T1912061121-000 |
| | | | | | H6BPR-TSHC-M25 | T1912061125-000 |
| | | | | PG21 | H10BPR-TSHC-PG21 | T1912101121-000 |
| | | | | PG29 | H10BPR-TSHC-PG29 | T1912101129-000 |
| | | | | | H10BPR-TSHC-M25 | T1912101125-000 |
| | | | M32 | | H10BPR-TSHC-M32 | T1912101132-000 |
| | | | | PG21 | H16BPR-TSHC-PG21 | T1912161121-000 |
| | | | | PG29 | H16BPR-TSHC-PG29 | T1912161129-000 |
| | | H10BPR | M25 | | H16BPR-TSHC-M25 | T1912161125-000 |
| | | | M32 | | H16BPR-TSHC-M32 | T1912161132-000 |
| | | | M40 | | H16BPR-TSHC-M40 | T1912161140-000 |
| | | | | PG21 | H24BPR-TSHC-PG21 | T1912241121-000 |
| | | | | PG29 | H24BPR-TSHC-PG29 | T1912241129-000 |
| | | | | PG36 | H24BPR-TSHC-PG36 | T1912241136-000 |
| | | H16BPR | M25 | | H24BPR-TSHC-M25 | T1912241125-000 |
| | | | M32 | | H24BPR-TSHC-M32 | T1912241132-000 |
| | | | M40 | | H24BPR-TSHC-M40 | T1912241140-000 |
| | | H24BPR | | | | |
| Hood: Top entry | | | | | | |
| |  <br>SIZE / A / H<br>H6BPR 96 70<br>H10BPR 110 70<br>H16BPR 130 80<br>H24BPR 156 80 | H6BPR | | PG21 | H6BPR-TGHC-PG21 | T1922061121-000 |
| | | | | PG29 | H6BPR-TGHC-PG29 | T1922061129-000 |
| | | | | PG36 | H6BPR-TGHC-PG36 | T1922061136-000 |
| | | | M25 | | H6BPR-TGHC-M25 | T1922061125-000 |
| | | | M32 | | H6BPR-TGHC-M32 | T1922061132-000 |
| | | | M40 | | H6BPR-TGHC-M40 | T1922061140-000 |
| | | | | PG21 | H10BPR-TGHC-PG21 | T1922101121-000 |
| | | | | PG29 | H10BPR-TGHC-PG29 | T1922101129-000 |
| | | H10BPR | | PG36 | H10BPR-TGHC-PG36 | T1922101136-000 |
| | | | M25 | | H10BPR-TGHC-M25 | T1922101125-000 |
| | | | M32 | | H10BPR-TGHC-M32 | T1922101132-000 |
| | | | M40 | | H10BPR-TGHC-M40 | T1922101140-000 |
| | | | | PG21 | H16BPR-TGHC-PG21 | T1922161121-000 |
| | | | | PG29 | H16BPR-TGHC-PG29 | T1922161129-000 |
| | | H16BPR | | PG36 | H16BPR-TGHC-PG36 | T1922161136-000 |
| | | | M25 | | H16BPR-TGHC-M25 | T1922161125-000 |
| | | | M32 | | H16BPR-TGHC-M32 | T1922161132-000 |
| | | | M40 | | H16BPR-TGHC-M40 | T1922161140-000 |
| | | | | PG21 | H24BPR-TGHC-PG21 | T1922241121-000 |
| | | | | PG29 | H24BPR-TGHC-PG29 | T1922241129-000 |
| | | | | PG36 | H24BPR-TGHC-PG36 | T1922241136-000 |
| | | H24BPR | M25 | | H24BPR-TGHC-M2S | T1922241125-000 |
| | | | M32 | | H24BPR-TGHC-M32 | T1922241132-000 |
| | | | M40 | | H24BPR-TGHC-M40 | T1922241140-000 |
| Bulkhead mounted | | | | | | |
| |  <br>SIZE / A / B / C<br>H6BPR 70 96 48<br>H10BPR 83 110 60<br>H16BPR 103 130 82<br>H24BPR 130 156 108 | H6BPR<br>H10BPR<br>H16BPR<br>H24BPR | | | H6BPR-AGC<br>H10BPR-AGC<br>H16BPR-AGC<br>H24BPR-AGC | T1932061000-000<br>T1932101000-000<br>T1932161000-000<br>T1932241000-000 |
| Cover | | | | | | |
| |  | H24BPR | | | H24BPR-KDBP | T1990240000-000 |



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

## Notes

## Tools and inserts and rail mounting elements



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

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

3. Approvals

RoHS



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

## Tools and accessories

### Crimping tools and remove tools

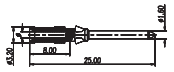
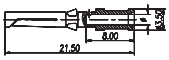
| | | | | | |
|---|---|---|---|---|---|
| **Crimp tool**<br>Wire range: 0.5-4.0mm² Suitable for CDM/CDF and CEM/CEF contacts | | | **Crimp tool**<br>Wire range: 4.0-10.0mm²<br>Used for CMM/CMF contacts | | |
| **Type** | CRIMPBOX-0.5/4 | | **Type** | CRIMPBOX-4.0/10.0 | |
| **Part Number** | T3100000001-000 | | **Part Number** | T3100001001-000 | |
| **Crimp tool**<br>Wire range: 0.14-4.0mm²<br>Suitable for CDM/CDF and CEM/CEF contacts with locator and die | | | **Remove tool**<br>Used for CDM/CDF contact series | | |
| **Type** | RSZ.HE-HN.D-HVT | | **Type** | REMOV-HD | |
| **Part Number** | 1-1105851-8 | | **Part Number** | T3100000003-000 | |
| **Remove tool**<br>Used for CEM/CMF contact series | | | **Remove tool**<br>Used for 5A contacts (Ø1mm) | | |
| **Type** | REMOV-HEE | REMOV-HEEE | **Material** | Metal | Plastic |
| **Part Number** | T3100000002-000 | T3100000016-000 | **Part Number** | T3100000017-000 | T3100000018-000 |
| **Remove tool**<br>Used for CMM/CMF contact series | | | | | |
| **Type** | REMOV-MM | | | | |
| **Part Number** | T3100000013-000 | | | | |

### Axial screw tool and crimping tool

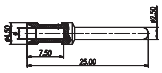
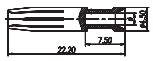
| | | | | | |
|---|---|---|---|---|---|
| **M3 screw driver**<br>Used for HA/HE inserts | | | **Tool**<br>Used for 100A inserts | | |
| **Type** | SCREWD-M3 | | **Type** | HEXA-D1 | |
| **Part Number** | T3100000009-000 | | **Part Number** | T3100000010-000 | |
| **Tool**<br>Used for 40A inserts | | | **Crimping tool**<br>Wire range: 10.0-120.0mm²<br>Used for 200A contacts | | |
| **Type** | HEXA-D2 | | **Type** | CRIMPBOX-10/120 | |
| **Part Number** | T3100000012-000 | | **Part Number** | T3100000015-000 | |

## Crimp contacts

### 10A Contact

| Tech data | 10A Male crimp contacts | Wire gauge | | Stripping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|---|---|---|---|---|---|---|
| **Material:** copper alloy<br>**Contact resistance:** ≤3mΩ<br>**Terminal:** crimp connection<br>**CDM/Male** |  | mm² | AWG | mm | Type | Part Number | Type | Part Number |
| | | 0.14-0.37 | 26-22 | 8.0 | CDM-0.14 | T2020001002-000 | DDM-0.14 | T2020011002-000 |
| | | 0.5 | 20 | 8.0 | CDM-0.5 | T2020001005-000 | DDM-0.5 | T2020011005-000 |
| | | 0.75 | 18 | 8.0 | CDM-0.75 | T2020001008-000 | DDM-0.75 | T2020011008-000 |
| | | 1.0 | 18 | 8.0 | CDM-1.0 | T2020001010-000 | DDM-1.0 | T2020011010-000 |
| | | 1.5 | 16 | 8.0 | CDM-1.5 | T2020001015-000 | DDM-1.5 | T2020011015-000 |
| | | 2.5 | 14 | 6.0 | CDM-2.5 | T2020001025-000 | DDM-2.5 | T2020011025-000 |
| **CDF/Female** | **10A Female crimp contacts** | 0.14-0.37 | 26-22 | 8.0 | CDF-0.14 | T2020002002-000 | DDF-0.14 | T2020012002-000 |
| |  | 0.5 | 20 | 8.0 | CDF-0.5 | T2020002005-000 | DDF-0.5 | T2020012005-000 |
| | | 0.75 | 18 | 8.0 | CDF-0.75 | T2020002008-000 | DDF-0.75 | T2020012008-000 |
| | | 1.0 | 18 | 8.0 | CDF-1.0 | T2020002010-000 | DDF-1.0 | T2020012010-000 |
| | | 1.5 | 16 | 8.0 | CDF-1.5 | T2020002015-000 | DDF-1.5 | T2020012015-000 |
| | | 2.5 | 14 | 6.0 | CDF-2.5 | T2020002025-000 | DDF-2.5 | T2020012025-000 |

### 16A Contact

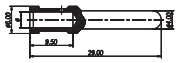
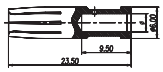
| Tech data | 16A Male crimp contacts | Wire gauge | | Stripping length | Crimp contacts, silver-plated | | Crimp contacts, gold-plated | |
|---|---|---|---|---|---|---|---|---|
| **Material:** copper alloy<br>**Contact resistance:** ≤1mΩ<br>**Terminal:** crimp connection<br>**CEM/Male** |  | mm² | AWG | mm | Type | Part Number | Type | Part Number |
| | | 0.14-0.37 | 26-22 | 7.5 | CEM-0.3 | T2030001002-000 | DEM-0.3 | T2030011002-000 |
| | | 0.5 | 20 | 7.5 | CEM-0.5 | T2030001005-000 | DEM-0.5 | T2030011005-000 |
| | | 0.75 | 18 | 7.5 | CEM-0.75 | T2030001008-000 | DEM-0.75 | T2030011008-000 |
| | | 1.0 | 18 | 7.5 | CEM-1.0 | T2030001010-000 | DEM-1.0 | T2030011010-000 |
| | | 1.5 | 16 | 7.5 | CEM-1.5 | T2030001015-000 | DEM-1.5 | T2030011015-000 |
| | | 2.5 | 14 | 7.5 | CEM-2.5 | T2030001025-000 | DEM-2.5 | T2030011025-000 |
| | | 4.0 | 12 | 7.5 | CEM-4.0 | T2030001040-000 | DEM-4.0 | T2030011040-000 |
| **CEF/Female** | **16A Female crimp contacts** | 0.14-0.37 | 26-22 | 7.5 | CEF-0.3 | T2030002002-000 | DEF-0.3 | T2030012002-000 |
| |  | 0.5 | 20 | 7.5 | CEF-0.5 | T2030002005-000 | DEF-0.5 | T2030012005-000 |
| | | 0.75 | 18 | 7.5 | CEF-0.75 | T2030002008-000 | DEF-0.75 | T2030012008-000 |
| | | 1.0 | 18 | 7.5 | CEF-1.0 | T2030002010-000 | DEF-1.0 | T2030012010-000 |
| | | 1.5 | 16 | 7.5 | CEF-1.5 | T2030002015-000 | DEF-1.5 | T2030012015-000 |
| | | 2.5 | 14 | 7.5 | CEF-2.5 | T2030002025-000 | DEF-2.5 | T2030012025-000 |
| | | 4.0 | 12 | 7.5 | CEF-4.0 | T2030002040-000 | DEF-4.0 | T2030012040-000 |



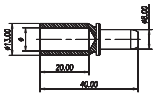
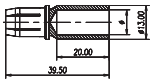
All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

# Crimp contacts

## 40A Contact

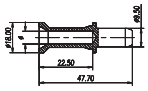
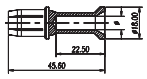
| Tech data<br>**Material:**<br>copper alloy<br>**Contact resistance:** ≤0.3mΩ<br>**Terminal:**<br>crimp connection | 40A Male crimp contacts | Wire gauge | | Stripping length | Crimp contacts, silver-plated | |
|---|---|---|---|---|---|---|
| | | mm² | AWG | mm | Type | Part Number |
| **CMM/Male** |  | 1.5<br>2.5<br>4.0<br>6.0 | 16<br>14<br>12<br>10 | 8.0<br>8.0<br>8.0<br>8.0 | CMM-1.5<br>CMM-2.5<br>CMM-4.0<br>CMM-6.0 | T2040001015-000<br>T2040001025-000<br>T2040001040-000<br>T2040001060-000 |
| **CMF/Female** | 40A Female crimp contacts  | 1.5<br>2.5<br>4.0<br>6.0<br>10 | 16<br>14<br>12<br>10<br>7 | 8.0<br>8.0<br>8.0<br>8.0<br>8.0 | CMF-1.5<br>CMF-2.5<br>CMF-4.0<br>CMF-6.0<br>CMF-10 | T2040002015-000<br>T2040002025-000<br>T2040002040-000<br>T2040002060-000<br>T2040002100-000 |

## 100A Contact

| Tech data<br>**Material:**<br>copper alloy<br>**Contact resistance:** ≤1mΩ<br>**Terminal:**<br>crimp connection | 100A Male crimp contacts | Wire gauge | Ø | Stripping length | Crimp contacts, silver-plated | |
|---|---|---|---|---|---|---|
| | | mm² | | mm | Type | Part Number |
| **CDM/Male** |  | 10<br>16<br>25<br>35 | 4.3<br>5.5<br>7<br>8.2 | 19<br>19<br>19<br>16 | CNM-10<br>CNM-16<br>CNM-25<br>CNM-35 | T2050001010-000<br>T2050001016-000<br>T2050001025-000<br>T2050001035-000 |
| **CDF/Female** | 100A Female crimp contacts  | 10<br>16<br>25<br>35 | 4.3<br>5.5<br>7<br>8.2 | 19<br>19<br>19<br>16 | CNF-10<br>CNF-16<br>CNF-25<br>CNF-35 | T2050002010-000<br>T2050002016-000<br>T2050002025-000<br>T2050002035-000 |

## Crimp contacts

### 200A Contact

| Tech data<br>**Material:**<br>copper<br>**Contact resistance:** ≤0.3mΩ<br>**Terminal:**<br>crimp connection | 200A Male crimp contacts | Wire gauge | Ø | Stripping length | Crimp contacts, silver-plated | |
|---|---|---|---|---|---|---|
| | | mm² | | mm | Type | Part Number |
| **CHM/Male**<br> |  | 25 | 7.0 | 22.5 | CHM-25 | T2060001025-000 |
| | | 35 | 8.2 | 22.5 | CHM-35 | T2060001035-000 |
| | | 50 | 10.0 | 22.5 | CHM-50 | T2060001050-000 |
| | | 70 | 11.5 | 22.5 | CHM-70 | T2060001070-000 |
| **CHF/Female**<br> | 200A Female crimp contacts<br>  | 25 | 7.0 | 22.5 | CHF-25 | T2060002025-000 |
| | | 35 | 8.2 | 22.5 | CHF-35 | T2060002035-000 |
| | | 50 | 10.0 | 22.5 | CHF-50 | T2060002050-000 |
| | | 70 | 11.5 | 22.5 | CHF-70 | T2060002070-000 |

### PCB Adapter

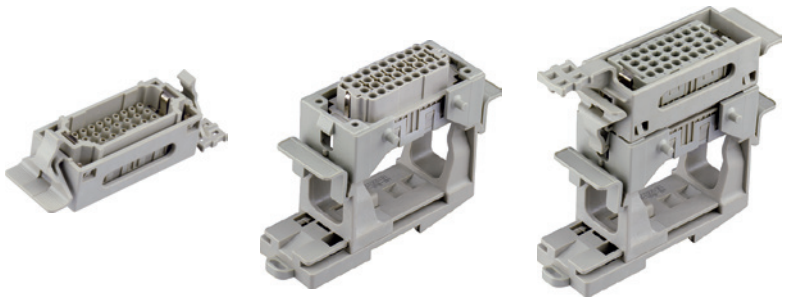
| Type | PCB-adapter-EE |
|---|---|
| Part Number | T2040000000-000 |

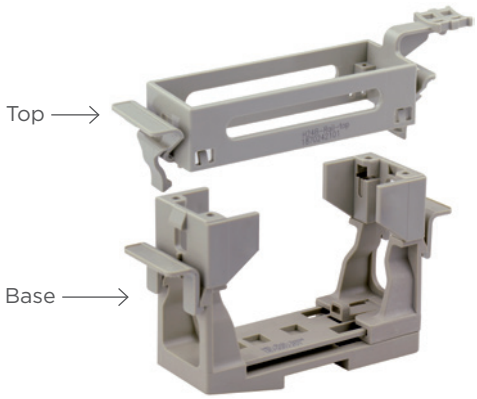
| Type | CEF-adapter |
|---|---|
| Part Number | T2030002000-000 |

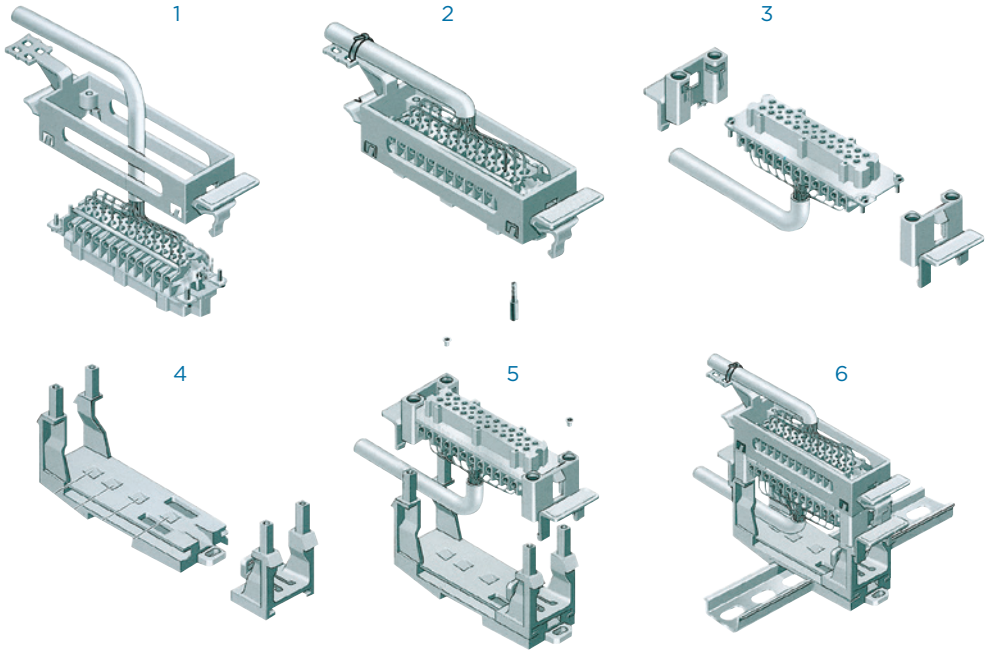


All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

## Insert mounting element



| Set | Parts order | | Type | Part Number |
|---|---|---|---|---|
| Insert mounting with carrier element | | | | |
|  | H6B set | Top | H6B-Rail-top | T1870062101-000 |
| | | Base | HB-Rail-base | T1870002201-000 |
| | H10B set | Top | H10B-Rail-top | T1870102101-000 |
| | | Base | HB-Rail-base | T1870002201-000 |
| | H16B set | Top | H16B-Rail-top | T1870162101-000 |
| | | Base | HB-Rail-base | T1870002201-000 |
| | H24B set | Top | H24B-Rail-top | T1870242101-000 |
| | | Base | HB-Rail-base | T1870002201-000 |




1 Attach insert in top carrier element

2 Set up strain relief e.g. by cable ties

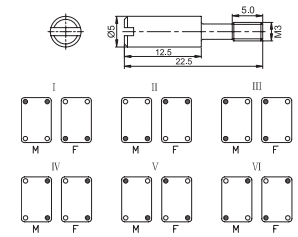
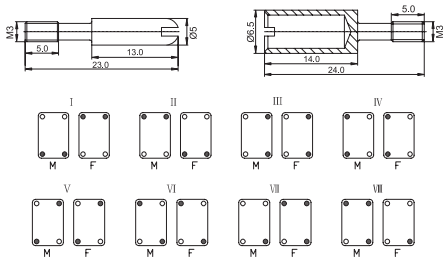
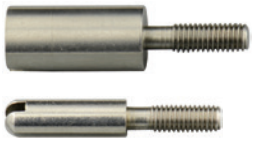
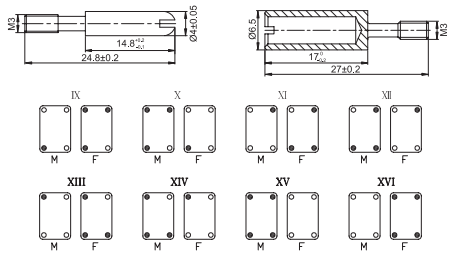
3 Attach fixing clamps to base insert

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 |
|---|---|---|---|
| Standard code pin<br>(Stainless steel)<br> |  | Ordinary type<br>CODING-PIN-M3-TM<br>CODING-PIN-M3-TF<br><br>Stainless steel<br>CODING-PIN-M3-STM<br>CODING-PIN-M3-STF | Ordinary type<br>T0931000423-000<br>T0931006524-000<br><br>Stainless steel<br>T0932000423-000<br>T0932006524-000 |
| Guiding pins<br>(Stainless steel)<br> |  | Ordinary type<br>King-size<br>CODING-PIN-M3-LTM<br>CODING-PIN-M3-LTF<br><br>Stainless steel,<br>King-size<br>CODING-PIN-M3-LSTM<br>CODING-PIN-M3-LSTF | Ordinary type<br>King-size<br>T0931000425-000<br>T0931006527-000<br><br>Stainless steel,<br>King-size<br>T0931100425-000<br>T0931106527-000 |
| Guiding pins<br>(screw thread extended)<br>  |  | Ordinary type<br>(screw thread extended)<br>CODING-PIN-M3-LTM<br>CODING-PIN-M3-LTF<br><br>Stainless steel<br>(screw thread extended)<br>CODING-PIN-M3-STM<br>CODING-PIN-M3-STF | Ordinary type<br>(screw thread extended)<br>T0931100425-000<br>T0931106527-000<br><br>Ordinary type<br>(screw thread extended)<br>T0931100423-000<br>T0931106524-000 |



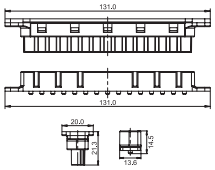
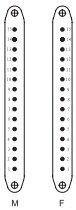
All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

## HEE-015 insert

INSERTS MOUNTING WITHOUT HOOD/HOUSING

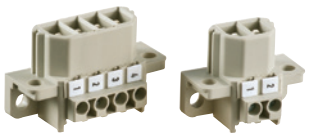
200V MAX. 16A

15+⏚

| Dimensions (mm) | | Type | Part Number | |
|---|---|---|---|---|
| | | | Male insert | Female insert |
| Crimp terminal (Order crimp contacts separately) | | | | |
| |  | HEE-015-M | T2800152101-000 | |
| | | HEE-015-F | | T2800152201-000 |
| 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

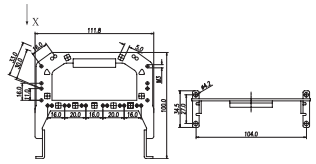
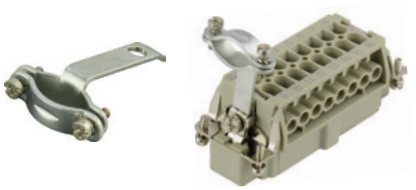
## Other connectors

| | | Designation | Type | Part Number |
|---|---|---|---|---|
| **3-poles connector**<br><br>**Rated:** 25A, 500V<br><br>**Contact surface:** Silver plated<br><br>**Flammability acc. to UL94:** V0<br><br>**Terminal:** Screw terminal |  | 3 poles male insert<br>3 poles female insert | HCC-003-M<br>HCC-003-F | T2100032101-000<br>T2100032201-000 |

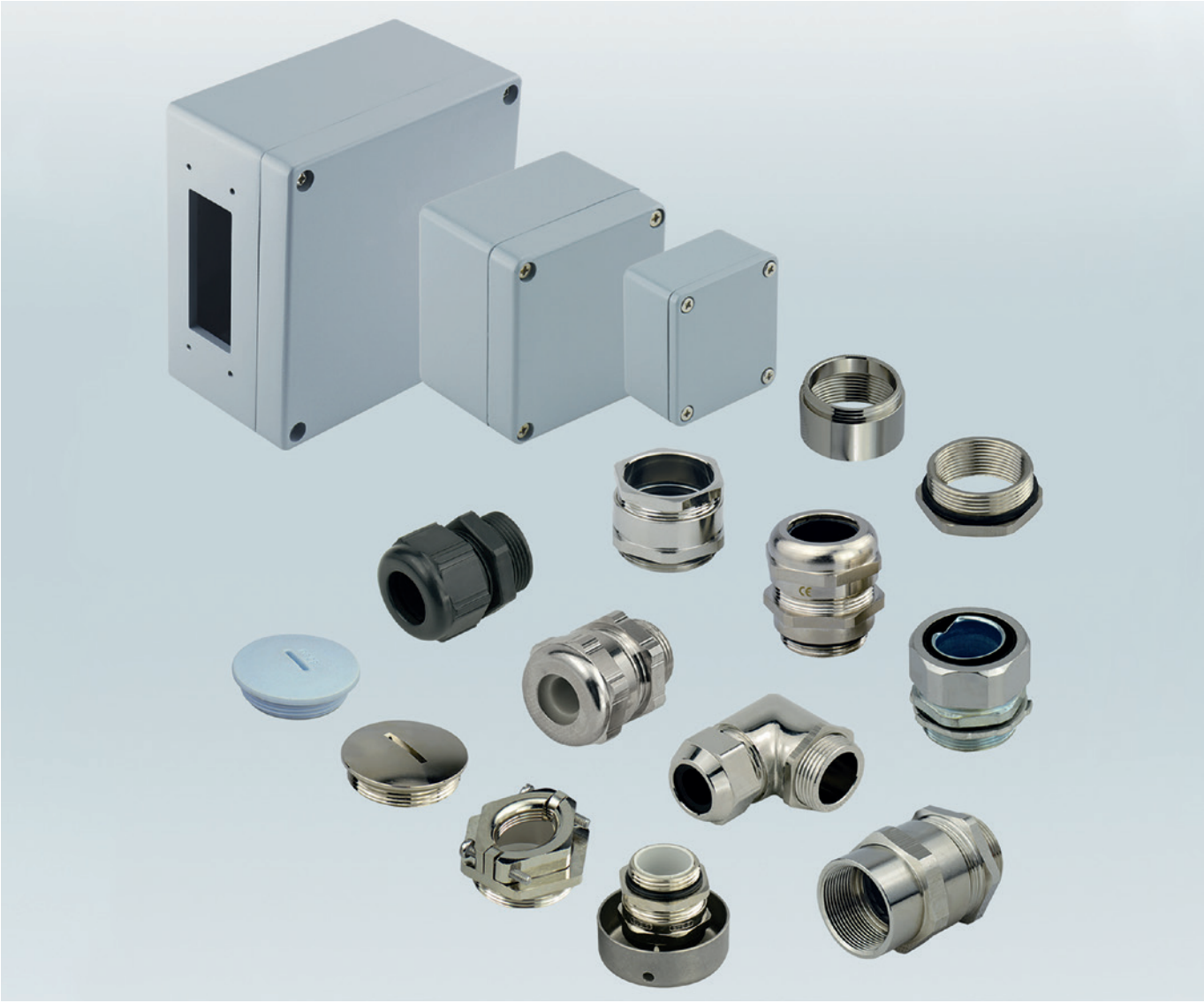


All specifications subject to change. Consult TE Connectivity for latest design specifications.
Contact TE for assistance with any part number configuration.

## Installation elements

| Grip frame, screw adapter and screw | | Type | Part Number |
|---|---|---|---|
| H24B grip frame (further variants are avialable on request) | | | |
| |  | HB-SB-024 | T3403121350-000 |
| Screw adapter and screw | | | |
| | | HB-GDZ-S | T3403121000-000 |
| | | HB-GDZ-X | T3403122000-000 |
| M5 Screw | | | |
| | | FIX-M5 | T0932406003-000 |
| Extend earth terminal | | | |
|  | | EXTEND-PE | T0926003000-000 |

## Cable glands and accessories



Cable glands made from plastic and brass
EMC cable glands

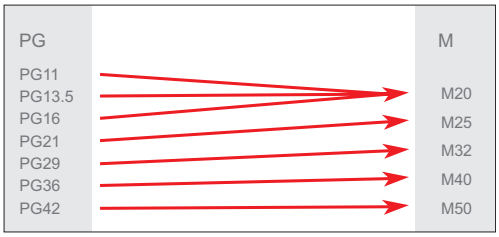
For hazardous areas in accordance with
DIN EN 50014
DIN EN 50019

RoHS



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

## Cross reference from PG thread to metric thread



**Material:** Nickel plated brass
**Press seal material:** PA
**Seal material:** NBR
**Temperature range:** -40ºC ~ +100ºC
**Protection:** IP68

| | Metr. | PG | Clamp range (mm) | Type | Part Number |
|---|---|---|---|---|---|
| Cable glands, brass nicked plated | | | | | |
| | | PG7 | 2-5<br>3-6.5 | DLX-7-MTS<br>DLX-7-MS | T3609070111-000<br>T3609070101-000 |
| | | PG9 | 2-6<br>4-8 | DLX-9-MTS<br>DLX-9-MS | T3609090111-000<br>T3609090101-000 |
| | | PG11 | 3-7<br>5-10 | DLX-11-MTS<br>DLX-11-MS | T3609110111-000<br>T3609110101-000 |
| | | PG13.5 | 5-9<br>6-12 | DLX-13-MTS<br>DLX-13-MS | T3609130111-000<br>T3609130101-000 |
| | | PG16 | 7-12<br>10-14 | DLX-16-MTS<br>DLX-16-MS | T3609160111-000<br>T3609160101-000 |
| | | PG21 | 9-16<br>13-18 | DLX-21-MTS<br>DLX-21-MS | T3609210111-000<br>T3609210101-000 |
| | | PG29 | 13-20<br>18-25 | DLX-29-MTS<br>DLX-29-MS | T3609290111-000<br>T3609290101-000 |
| | | PG36 | 20-26<br>22-32 | DLX-36-MTS<br>DLX-36-MS | T3609360111-000<br>T3609360101-000 |
| | | PG42 | 25-31<br>32-38 | DLX-42-MTS<br>DLX-42-MS | T3609420111-000<br>T3609420101-000 |
| | | PG48 | 29-35<br>37-44 | DLX-48-MTS<br>DLX-48-MS | T3609480111-000<br>T3609480101-000 |
| | M12 X 1.5 | | 2-5<br>3-6.5 | DLX-12-MT<br>DLX-12-M | T3609120112-000<br>T3609120102-000 |
| | M16 X 1.5 | | 2-6<br>4-8<br>5-10 | DLX-16-MT<br>DLX-16-M<br>DLX-16-MB | T3609160112-000<br>T3609160102-000<br>T3609160122-000 |
| | M20 X 1.5 | | 5-9<br>6-12<br>10-14 | DLX-20-MT<br>DLX-20-M<br>DLX-20-MB | T3609200112-000<br>T3609200102-000<br>T3609200122-000 |
| | M25 X 1.5 | | 9-16<br>13-18 | DLX-25-MT<br>DLX-25-M | T3609250112-000<br>T3609250102-000 |
| | M32 X 1.5 | | 13-20<br>18-25 | DLX-32-MT<br>DLX-32-M | T3609320112-000<br>T3609320102-000 |
| | M40 X 1.5 | | 20-26<br>22-32 | DLX-40-MT<br>DLX-40-M | T3609400112-000<br>T3609400102-000 |
| | M50 X 1.5 | | 25-31<br>32-38 | DLX-50-MT<br>DLX-50-M | T3609500112-000<br>T3609500102-000 |
| | M63 X 1.5 | | 29-35<br>37-44 | DLX-63-MT<br>DLX-63-M | T3609630112-000<br>T3609630102-000 |

## Cable fittings and accessories

| | Metr. | PG | Clamp range (mm) | Type | Part Number |
|---|---|---|---|---|---|
| Cable glands, polyamide | | | | | |
| **Material:** Polyamide<br>**Press seal material:** PA<br>**Seal material:** NBR<br>**Temperature range:** -40ºC ~ +100ºC<br>**Protection:** IP68 | | PG7 | 2~5<br>3~6.5 | DLX-7-PT<br>DLX-7-P | T3209070161-000<br>T3209070160-000 |
| | | PG9 | 2~6<br>4~8 | DLX-9-PT<br>DLX-9-P | T3209090161-000<br>T3209090160-000 |
| | | PG11 | 3~7<br>5~10 | DLX-11-PT<br>DLX-11-P | T3209110161-000<br>T3209110160-000 |
| | | PG13.5 | 5~9<br>6~12 | DLX-13-PT<br>DLX-13-P | T3209130161-000<br>T3209130160-000 |
| | | PG16 | 7~12<br>10~14 | DLX-16-PT<br>DLX-16-P | T3209160161-000<br>T3209160160-000 |
| | | PG21 | 9~16<br>13~18 | DLX-21-PT<br>DLX-21-P | T3209210161-000<br>T3209210160-000 |
| | | PG29 | 13~20<br>18~25 | DLX-29-PT<br>DLX-29-P | T3209290161-000<br>T3209290160-000 |
| | | PG36 | 20~26<br>22~32 | DLX-36-PT<br>DLX-36-P | T3209360161-000<br>T3209360160-000 |
| | | PG42 | 25~31<br>32~38 | DLX-42-PT<br>DLX-42-P | T3209420161-000<br>T3209420160-000 |
| | | PG48 | 29~35<br>37~44 | DLX-48-PT<br>DLX-48-P | T3209480161-000<br>T3209480160-000 |
| | M12 X 1.5 | | 2~5<br>3~6.5 | DLX-12-PMT<br>DLX-12-PM | T3209120112-000<br>T3209120102-000 |
| | M16 X 1.5 | | 2~6<br>4~8 | DLX-16-PMT<br>DLX-16-PM | T3209160112-000<br>T3209160102-000 |
| | M20 X 1.5 | | 5~9<br>6~12 | DLX-20-PMT<br>DLX-20-PM | T3209200112-000<br>T3209200102-000 |
| | M25 X 1.5 | | 9~16<br>13~18 | DLX-25-PMT<br>DLX-25-PM | T3209250112-000<br>T3209250102-000 |
| | M32 X 1.5 | | 13~20<br>18~25 | DLX-32-PMT<br>DLX-32-PM | T3209320112-000<br>T3209320102-000 |
| | M40 X 1.5 | | 20~26<br>22~32 | DLX-40-PMT<br>DLX-40-PM | T3209400112-000<br>T3209400102-000 |
| | M50 X 1.5 | | 25~31<br>32~38 | DLX-50-PMT<br>DLX-50-PM | T3209500112-000<br>T3209500102-000 |
| | M63 X 1.5 | | 29~35<br>37~44 | DLX-63-PMT<br>DLX-63-PM | T3209630112-000<br>T3209630102-000 |



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

## Cable fittings and accessories

| | Metr. | PG | Clamp range (mm) | Type | Part Number |
|---|---|---|---|---|---|
| Multiple sealing insert metal cable gland | | | | | |
| <br>**Material:** Nickel plated brass<br>**Seal material:** TPE/EPDM<br>**Temperature range:** -40ºC ~ + 100ºC<br>**Protection:** IP65<br>**Seal material colors:** White<br>(other colors need consulting) | | PG13.5 | 2 x 3 | DLX-13-KMS | T3729130101-000 |
| | | PG16 | 3 x 4 | DLX-16-KMS | T3729160101-000 |
| | | PG16 | 2 x 5 | DLX-16-KMS | T3729160201-000 |
| | | PG21 | 4 x 6.5 | DLX-21-1KMS | T3729210101-000 |
| | | PG21 | 3 x 7 | DLX-21-2KMS | T3729210201-000 |
| | | PG21 | 2 x 6 | DLX-21-3KMS | T3729210301-000 |
| | | PG21 | 2 x 8 | DLX-21-4KMS | T3729210401-000 |
| | | PG29 | 6 x 6.5 | DLX-29-1KMS | T3729290101-000 |
| | | PG29 | 4 x 9 | DLX-29-2KMS | T3729290201-000 |
| | | PG29 | 3 x 9 | DLX-29-3KMS | T3729290301-000 |
| | | PG36 | 5 x 9 | DLX-36-1KMS | T3729360101-000 |
| | | PG36 | 6 x 8 | DLX-36-2KMS | T3729360201-000 |
| | | PG42 | 4 x 12 | DLX-42-1KMS | T3729420101-000 |
| | | PG42 | 5 x 10 | DLX-42-2KMS | T3729420201-000 |
| | | PG48 | 6 x 12 | DLX-48-1KMS | T3729480101-000 |
| | | PG48 | 3 x 18 | DLX-48-2KMS | T3729480201-000 |
| | M16 X 1.5 | | 2 x 3 | DLX-16-KM | T3729160102-000 |
| | M20 X 1.5 | | 3 x 4 | DLX-20-KM | T3729200102-000 |
| | M20 X 1.5 | | 2 x 5 | DLX-20-KM | T3729200202-000 |
| | M25 X 1.5 | | 4 x 6.5 | DLX-25-1KM | T3729250102-000 |
| | M25 X 1.5 | | 3 x 7 | DLX-25-2KM | T3729250202-000 |
| | M25 X 1.5 | | 2 x 6 | DLX-25-3KM | T3729250302-000 |
| | M25 X 1.5 | | 2 x 8 | DLX-25-4KM | T3729250402-000 |
| | M32 X 1.5 | | 6 x 6.5 | DLX-32-1KM | T3729320102-000 |
| | M32 X 1.5 | | 4 x 9 | DLX-32-2KM | T3729320202-000 |
| | M32 X 1.5 | | 3 x 9 | DLX-32-3KM | T3729320302-000 |
| | M40 X 1.5 | | 5 x 9 | DLX-40-1KM | T3729400102-000 |
| | M40 X 1.5 | | 6 x 8 | DLX-40-2KM | T3729400202-000 |
| | M50 X 1.5 | | 4 x 12 | DLX-50-1KM | T3729500102-000 |
| | M50 X 1.5 | | 5 x 10 | DLX-50-2KM | T3729500202-000 |
| | M63 X 1.5 | | 6 x 12 | DLX-63-1KM | T3729630102-000 |
| | M63 X 1.5 | | 3 x 18 | DLX-63-2KM | T3729630202-000 |
| Multiple sealing insert nylon cable gland | | | | | |
| <br>**Material:** PA<br>**Seal material:** EPDM<br>**Temperature range:** -40ºC ~ + 100ºC<br>**Protection:** IP65<br>**Seal material colors:** White<br>(other colors need consulting) | | PG13.5 | 2 x 3 | DLX-13-KPMS | T3229130101-000 |
| | | PG16 | 3 x 4 | DLX-16-KPMS | T3229160101-000 |
| | | PG16 | 2 x 5 | DLX-16-KPMS | T3229160201-000 |
| | | PG21 | 4 x 6.5 | DLX-21-1KPMS | T3229210101-000 |
| | | PG21 | 3 x 7 | DLX-21-2KPMS | T3229210201-000 |
| | | PG21 | 2 x 6 | DLX-21-3KPMS | T3229210301-000 |
| | | PG21 | 2 x 8 | DLX-21-4KPMS | T3229210401-000 |
| | | PG29 | 6 x 6.5 | DLX-29-1KPMS | T3229290101-000 |
| | | PG29 | 4 x 9 | DLX-29-2KPMS | T3229290201-000 |
| | | PG29 | 3 x 9 | DLX-29-3KPMS | T3229290301-000 |
| | | PG36 | 5 x 9 | DLX-36-1KPMS | T3229360101-000 |
| | | PG36 | 6 x 8 | DLX-36-2KPMS | T3229360201-000 |
| | | PG42 | 4 x 12 | DLX-42-1KPMS | T3229420101-000 |
| | | PG42 | 5 X 10 | DLX-42-2KPMS | T3229420201-000 |
| | | PG48 | 6 x 12 | DLX-48-1KPMS | T3229480101-000 |
| | | PG48 | 3 x 18 | DLX-48-2KPMS | T3229480201-000 |
| | M16 X 1.5 | | 2 x 3 | DLX-16-KPM | T3229160102-000 |
| | M20 X 1.5 | | 3 x 4 | DLX-20-KPM | T3229200102-000 |
| | M20 X 1.5 | | 2 x 5 | DLX-20-KPM | T3229200202-000 |
| | M25 X 1.5 | | 4 x 6.5 | DLX-25-1KPM | T3229250102-000 |
| | M25 X 1.5 | | 3 x 7 | DLX-25-2KPM | T3229250202-000 |
| | M25 X 1.5 | | 2 x 6 | DLX-25-3KPM | T3229250302-000 |
| | M25 X 1.5 | | 2 x 8 | DLX-25-4KPM | T3229250402-000 |
| | M32 X 1.5 | | 6 x 6.5 | DLX-32-1KPM | T3229320102-000 |
| | M32 X 1.5 | | 4 x 9 | DLX-32-2KPM | T3229320202-000 |
| | M32 X 1.5 | | 3 x 9 | DLX-32-3KPM | T3229320302-000 |
| | M40 X 1.5 | | 5 x 9 | DLX-40-1KPM | T3229400102-000 |
| | M40 X 1.5 | | 6 x 8 | DLX-40-2KPM | T3229400202-000 |
| | M50 X 1.5 | | 4 x 12 | DLX-50-1KPM | T3229500102-000 |
| | M50 X 1.5 | | 5 x 10 | DLX-50-2KPM | T3229500202-000 |
| | M63 X 1.5 | | 6 x 12 | DLX-63-1KPM | T3229630102-000 |
| | M63 X 1.5 | | 3 x 18 | DLX-63-2KPM | T3229630202-000 |

| | Metr. | PG | Clamp range (mm) | Type | Part Number |
|---|---|---|---|---|---|
| Special sealing insert gland | | | | | |
| Sealing with different colors **Material:** Nickel plated brass **Seal material:** TPE/EPDM **Temperature range:** -40ºC ~ +100ºC **Protection:** IP65 **Seal material colors:** Black (other colors need consulting) | | PG9 | 2~3.5<br>3.5~6<br>6~9 | DLX-9-MSET<br>DLX-9-MSEZ<br>DLX-9-MSE | T3709090111-000<br>T3709090121-000<br>T3709090101-000 |
| | | PG11 | 6~8.5<br>8.5~11<br>11 ~13.5 | DLX-11-MSET<br>DLX-11-MSEZ<br>DLX-11-MSE | T3709110111-000<br>T3709110121-000<br>T3709110101-000 |
| | | PG13.5 | 8.5~11<br>11~13.5<br>13.5~15 | DLX-13-MSET<br>DLX-13-MSEZ<br>DLX-13-MSE | T3709130111-000<br>T3709130121-000<br>T3709130101-000 |
| | | PG16 | 9~12<br>12~14<br>14~16 | DLX-16-MSET<br>DLX-16-MSEZ<br>DLX-16-MSE | T3709160111-000<br>T3709160121-000<br>T3709160101-000 |
| | | PG21 | 13.5~16<br>16~17.5<br>17.5~19 | DLX-21-MSET<br>DLX-21-MSEZ<br>DLX-21-MSE | T3709210111-000<br>T3709210121-000<br>T3709210101-000 |
| | | PG29 | 17.5~21<br>21~22.5<br>22.5~25 | DLX-29-MSET<br>DLX-29-MSEZ<br>DLX-29-MSE | T3709290111-000<br>T3709290121-000<br>T3709290101-000 |
| | | PG36 | 20~24<br>24~28<br>28~32 | DLX-36-MSET<br>DLX-36-MSEZ<br>DLX-36-MSE | T3709360111-000<br>T3709360121-000<br>T3709360101-000 |
| | M16 X 1.5 | | 2~3.5<br>3.5~6<br>6~9 | DLX-16-MET<br>DLX-16-MEZ<br>DLX-16-ME | T3709160112-000<br>T3709160122-000<br>T3709160102-000 |
| | M20 X 1.5 | | 8.5~11<br>11~13.5<br>13.5~15 | DLX-20-MET<br>DLX-20-MEZ<br>DLX-20-ME | T3709200112-000<br>T3709200122-000<br>T3709200102-000 |
| | M25 X 1.5 | | 13.5~16<br>16~17.5<br>17.5~19<br>18~22 | DLX-25-MET<br>DLX-25-MEZ<br>DLX-25-ME<br>DLX-25-MEA | T3709250112-000<br>T3709250122-000<br>T3709250102-000<br>T3709250132-000 |
| | M32 X 1.5 | | 17.5~21<br>21~22.5<br>22.5~25 | DLX-32-MET<br>DLX-32-MEZ<br>DLX-32-ME | T3709320112-000<br>T3709320122-000<br>T3709320102-000 |
| | M40 X 1.5 | | 20~24<br>24~28<br>28~32 | DLX-40-MET<br>DLX-40-MEZ<br>DLX-40-ME | T3709400112-000<br>T3709400122-000<br>T3709400102-000 |
| EMC cable glands | | | | | |
| **Material:** Nickel plated brass **Press seal material:** PA **Seal material:** EPDM **Temperature range:** -40ºC ~ +100ºC **Protection:** IP68 | | PG9<br>PG11<br>PG13.5<br>PG16<br>PG21<br>PG29<br>PG36<br>PG42<br>PG48 | 4~8<br>5~10<br>6~12<br>10~14<br>13~18<br>18~25<br>22~32<br>32~38<br>37~44 | DLX-9-MSC<br>DLX-11-MSC<br>DLX-13-MSC<br>DLX-16-MSC<br>DLX-21-MSC<br>DLX-29-MSC<br>DLX-36-MSC<br>DLX-42-MSC<br>DLX-48-MSC | T3707090101-000<br>T3706110113-000<br>T3707130101-000<br>T3707160101-000<br>T3707210101-000<br>T3707290101-000<br>T3707360101-000<br>T3707420101-000<br>T3707480101-000 |
| | M16 X 1.5 | | 2~6<br>4~8 | DLX-16-MTC<br>DLX-16-MC | T3707160113-000<br>T3609160103-000 |
| | M20 X 1.5 | | 5~9<br>6~12 | DLX-20-MTC<br>DLX-20-MC | T3707200113-Z00<br>T3706200103-000 |
| | M25 X 1.5 | | 9~16<br>13~18 | DLX-25-MTC<br>DLX-25-MC | T3707250113-000<br>T3609250103-000 |
| | M32 X 1.5 | | 13~20<br>18~25 | DLX-32-MTC<br>DLX-32-MC | T3707320113-000<br>T3609320103-000 |
| | M40 X 1.5 | | 20~26<br>22~32 | DLX-40-MTC<br>DLX-40-MC | T3707400113-000<br>T3706400103-000 |
| | M50 X 1.5 | | 25~31<br>32~38 | DLX-50-MTC<br>DLX-50-MC | T3707500113-000<br>T3707500103-000 |
| | M63 X 1.5 | | 29~35<br>37~44 | DLX-63-MTC<br>DLX-63-MC | T3707630113-000<br>T3707630103-000 |



All specifications subject to change. Consult TE Connectivity for latest design specifications.
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## Cable fittings and accessories

| | Metr. | PG | Clamp range (mm) | Type | Part Number |
|---|---|---|---|---|---|
| Metal glands with multiple seal | | | | | |
| **Material:** Nickel plated brass **Seal material:** NBR **Temperature range:** -40ºC ~ +100ºC **Protection:** IP65 | | PG9 | 5~10 | DSM-9 | T3201090101-000 |
| | | PG11 | 7~12 | DSM-11 | T3201110101-000 |
| | | PG13.5 | 7~12 | DSM-13 | T3201130101-000 |
| | | PG16 | 7~15 | DSM-16 | T3201160101-000 |
| | | PG21 | 10~19 | DSM-21 | T3201210101-000 |
| | | PG29 | 18~27 | DSM-29 | T3201290101-000 |
| | | PG36 | 24~32 | DSM-36 | T3201360101-000 |
| | | PG42 | 30~39 | DSM-42 | T3201420101-000 |
| | | PG48 | 36~45 | DSM-48 | T3201480101-000 |
| | M12 | | 5~10 | DSM-12-M | T3201120102-000 |
| | M16 | | 6.5~10 | DSM-16-M | T3201160102-000 |
| | M20 | | 8.5~13.5 | DSM-20-M | T3201200102-000 |
| | M25 | | 13~20 | DSM-25-M | T3201250102-000 |
| | M32 | | 19~28 | DSM-32-M | T3201320102-000 |
| | M40 | | 24~34 | DSM-40-M | T3201400102-000 |
| | M50 | | 34~40 | DSM-50-M | T3201500102-000 |
| | M63 | | 39~46 | DSM-63-M | T3201630102-000 |
| Metal glands with multiple seal | | | | | |
| **Material:** Nickel plated brass **Seal material:** NBR **Temperature range:** -40ºC ~ +100ºC **Protection:** IP54 | | PG9 | 8~10 | DSM-9-S | T3211090101-000 |
| | | PG11 | 10~12 | DSM-11-S | T3211110101-000 |
| | | PG13.5 | 12~14 | DSM-13-S | T3211130101-000 |
| | | PG16 | 14~16 | DSM-16-S | T3211160101-000 |
| | | PG21 | 17~19 | DSM-21-S | T3211210101-000 |
| | | PG29 | 23~25 | DSM-29-S | T3211290101-000 |
| | | PG36 | 33~35 | DSM-36-S | T3211360101-000 |
| | | PG42 | 39~41 | DSM-42-S | T3211420101-000 |
| | | PG48 | 45~47 | DSM-48-S | T3211480101-000 |
| | M12 | | 5~7 | DSM-12-SM | T3211120102-000 |
| | M16 | | 8~10 | DSM-16-SM | T3211160102-000 |
| | M20 | | 10~12 | DSM-20-SM | T3211200102-000 |
| | M25 | | 15~17 | DSM-25-SM | T3211250102-000 |
| | M32 | | 24~26 | DSM-32-SM | T3211320102-000 |
| | M40 | | 28~30 | DSM-40-SM | T3211400102-000 |
| | M50 | | 39~41 | DSM-50-SM | T3211500102-000 |
| | M63 | | 45~47 | DSM-63-SM | T3211630102-000 |

## Cable fittings and accessories

| | Metr. | PG | Clamp range (mm) | Type | Part Number |
|---|---|---|---|---|---|
| Metal glands with multiple seal | | | | | |
| **Material:** Nickel plated brass **Seal material:** NBR **Temperature range:** -40ºC ~ +100ºC **Protection:** IP65 | | PG9 | 5~10 | DCSM-9 | T3101090101-000 |
| | | PG11 | 7~12 | DCSM-11 | T3101110101-000 |
| | | PG13.5 | 7~12 | DCSM-13 | T3101130101-000 |
| | | PG16 | 7~15 | DCSM-16 | T3101160101-000 |
| | | PG21 | 10~19 | DCSM-21 | T3101210101-000 |
| | | PG29 | 18~27 | DCSM-29 | T3101290101-000 |
| | | PG36 | 24~32 | DCSM-36 | T3101360101-000 |
| | | PG42 | 30~39 | DCSM-42 | T3101420101-000 |
| | | PG48 | 36~45 | DCSM-48 | T3101480101-000 |
| | M12 | | 5~10 | DCSM-12-M | T3101120102-000 |
| | M16 | | 6.5~10 | DCSM-16-M | T3101160102-000 |
| | M20 | | 8.5~13.5 | DCSM-20-M | T3101200102-000 |
| | M25 | | 13~20 | DCSM-25-M | T3101250102-000 |
| | M32 | | 19~28 | DCSM-32-M | T3101320102-000 |
| | M40 | | 24~34 | DCSM-40-M | T3101400102-000 |
| | M50 | | 34~40 | DCSM-50-M | T3101500102-000 |
| | M63 | | 39~46 | DCSM-63-M | T3101630102-000 |
| Metal glands with multiple seal | | | | | |
| **Material:** Nickel plated brass **Seal material:** NBR **Temperature range:** -40ºC ~ +100ºC **Protection:** IP54 | | PG9 | 8~10 | DCSM-9-S | T3111090101-000 |
| | | PG11 | 10~12 | DCSM-11-S | T3111110101-000 |
| | | PG13.5 | 12~14 | DCSM-13-S | T3111130101-000 |
| | | PG16 | 14~16 | DCSM-16-S | T3111160101-000 |
| | | PG21 | 17~19 | DCSM-21-S | T3111210101-000 |
| | | PG29 | 23~25 | DCSM-29-S | T3111290101-000 |
| | | PG36 | 33~35 | DCSM-36-S | T3111360101-000 |
| | | PG42 | 39~41 | DCSM-42-S | T3111420101-000 |
| | | PG48 | 45~47 | DCSM-48-S | T3111480101-000 |
| | M12 | | 5~7 | DCSM-12-SM | T3111120102-000 |
| | M16 | | 8~10 | DCSM-16-SM | T3111160102-000 |
| | M20 | | 10~12 | DCSM-20-SM | T3111200102-000 |
| | M25 | | 15~17 | DCSM-25-SM | T3111250102-000 |
| | M32 | | 24~26 | DCSM-32-SM | T3111320102-000 |
| | M40 | | 28~30 | DCSM-40-SM | T3111400102-000 |
| | M50 | | 39~41 | DCSM-50-SM | T3111500102-000 |
| | M63 | | 45~47 | DCSM-63-SM | T3111630102-000 |



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## Cable fittings and accessories

| | Metr. | PG | Clamp range (mm) | Type | Part Number |
|---|---|---|---|---|---|
| Multiple seal | | | | | |
| **Seal material:** NBR **Temperature range:** -40ºC ~ +100ºC **Protection:** IP65 | | PG9 | 5~10 | MSL-9 | T3100090001-000 |
| | | PG11 | 7~12 | MSL-11 | T3100110101-000 |
| | | PG13.5 | 7~12 | MSL-13 | T3100130001-000 |
| | | PG16 | 7~15 | MSL-16 | T3100160001-000 |
| | | PG21 | 10~19 | MSL-21 | T3100210001-000 |
| | | PG29 | 18~27 | MSL-29 | T3100290001-000 |
| | | PG36 | 24~32 | MSL-36 | T3100360001-000 |
| | | PG42 | 30~39 | MSL-42 | T3100420001-000 |
| | | PG48 | 36~45 | MSL-48 | T3100480001-000 |
| | M12 | | 5~10 | MSL-12-M | T3100120002-000 |
| | M16 | | 6.5~10 | MSL-16-M | T3100160002-000 |
| | M20 | | 8.5~13.5 | MSL-20-M | T3100200002-000 |
| | M25 | | 13~20 | MSL-25-M | T3100250002-000 |
| | M32 | | 19~28 | MSL-32-M | T3100320002-000 |
| | M40 | | 24~34 | MSL-40-M | T3100400002-000 |
| | M50 | | 34~40 | MSL-50-M | T3100500002-000 |
| | M63 | | 39~46 | MSL-63-M | T3100630002-000 |
| Normal seal | | | | | |
| **Seal material:** NBR **Temperature range:** -40ºC ~ +100ºC **Protection:** IP54 | | PG9 | 8~10 | SGL-9 | T0910004109-000 |
| | | PG11 | 10~12 | SGL-11 | T0910004111-000 |
| | | PG13.5 | 12~14 | SGL-13 | T0910004113-000 |
| | | PG16 | 14~16 | SGL-16 | T0910004116-000 |
| | | PG21 | 17~19 | SGL-21 | T0910004121-000 |
| | | PG29 | 23~25 | SGL-29 | T0910004129-000 |
| | | PG36 | 33~35 | SGL-36 | T0910004136-000 |
| | | PG42 | 39~41 | SGL-42 | T0910004142-000 |
| | | PG48 | 45~47 | SGL-48 | T0910004148-000 |
| | M12 | | 5~7 | SGL-12-M | T3300120002-000 |
| | M16 | | 8~10 | SGL-16-M | T3300160002-000 |
| | M20 | | 10~12 | SGL-20-M | T3300200002-000 |
| | M25 | | 15~17 | SGL-25-M | T3300250002-000 |
| | M32 | | 24~26 | SGL-32-M | T3300320102-000 |
| | M40 | | 28~30 | SGL-40-M | T3300400002-000 |
| | M50 | | 39~41 | SGL-50-M | T3300500002-000 |
| | M63 | | 45~47 | SGL-63-M | T3300630002-000 |

| | Metr. | PG | Clamp range (mm) | Type | Part Number |
|---|---|---|---|---|---|
| Metal clamp glands with multiple seal | | | | | |
| **Material:** Nickel plated brass **Seal material:** NBR **Temperature range:** -40ºC ~ +100ºC **Protection:** IP65 | | PG9 | 6.5~10 | ZSM-9 | T3135090101-000 |
| | | PG11 | 7.5~12 | ZSM-11 | T3135110101-000 |
| | | PG13.5 | 8.5~13.5 | ZSM-13 | T3135130101-000 |
| | | PG16 | 10.5~16 | ZSM-16 | T3135160101-000 |
| | | PG21 | 13~20 | ZSM-21 | T3135210101-000 |
| | | PG29 | 19~28 | ZSM-29 | T3135290101-000 |
| | | PG36 | 24~34 | ZSM-36 | T3135360101-000 |
| | | PG42 | 34~40 | ZSM-42 | T3135420101-000 |
| | | PG48 | 39~46 | ZSM-48 | T3135480101-000 |
| | M16 | | 6.5~10 | ZSM-16-M | T3135160121-000 |
| | M20 | | 7.5~12 | ZSM-20-M | T3135200121-000 |
| | M25 | | 13~20 | ZSM-25-M | T3135250121-000 |
| | M32 | | 19~28 | ZSM-32-M | T3135320121-000 |
| | M40 | | 24~34 | ZSM-40-M | T3135400121-000 |
| | M50 | | 34~40 | ZSM-50-M | T3135500121-000 |
| | M63 | | 39~46 | ZSM-63-M | T3135630121-000 |
| Metal clamp glands with normal seal | | | | | |
| **Material:** Nickel plated brass **Seal material:** NBR **Temperature range:** -40ºC ~ +100ºC **Protection:** IP54 | | PG7 | 6~8 | ZSM-7-S | T3115070101-000 |
| | | PG9 | 8~10 | ZSM-9-S | T3115090101-000 |
| | | PG11 | 10~12 | ZSM-11-S | T3115110101-000 |
| | | PG13.5 | 12~14 | ZSM-13-S | T3115130101-000 |
| | | PG16 | 14~16 | ZSM-16-S | T3115160101-000 |
| | | PG21 | 17~19 | ZSM-21-S | T3115210101-000 |
| | | PG29 | 26~28 | ZSM-29-S | T3115290101-000 |
| | | PG36 | 33~35 | ZSM-36-S | T3115360101-000 |
| | | PG42 | 39~41 | ZSM-42-S | T3115420101-000 |
| | | PG48 | 43~45 | ZSM-48-S | T3115480101-000 |
| | M12 | | 6~8 | ZSM-12-SM | T3115120121-000 |
| | M16 | | 8~12 | ZSM-16-SM | T3115160121-000 |
| | M20 | | 10~12 | ZSM-20-SM | T3115200121-000 |
| | M25 | | 12~14 | ZSM-25-SM | T3115250121-000 |
| | M32 | | 17~19 | ZSM-32-SM | T3115320121-000 |
| | M40 | | 25~27 | ZSM-40-SM | T3115400121-000 |
| | M50 | | 39~41 | ZSM-50-SM | T3115500121-000 |
| | M63 | | 43~45 | ZSM-63-SM | T3115630121-000 |



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Contact TE for assistance with any part number configuration.

## Cable fittings and accessories

| | Metr. | PG | Clamp range (mm) | Type | Part Number |
|---|---|---|---|---|---|
| Metal clamp glands | | | | | |
| | | PG7 | 5.5~8 | KSM-7-MS | T3105070101-000 |
| | | PG9 | 6.5~10 | KSM-9-MS | T3105090101-000 |
| | | PG11 | 7.5~12 | KSM-11-MS | T3105110101-000 |
| | | PG13.5 | 8.5~14 | KSM-13-MS | T3105130101-000 |
| | | PG16 | 9.5~16 | KSM-16-MS | T3105160101-000 |
| | | PG21 | 12~21 | KSM-21-MS | T3105210101-000 |
| | | PG29 | 19~30 | KSM-29-MS | T3105290101-000 |
| | | PG36 | 25~37 | KSM-36-MS | T3105360101-000 |
| | | PG42 | 31~43 | KSM-42-MS | T3105420101-000 |
| | | PG48 | 35~48 | KSM-48-MS | T3105480101-000 |
| **Material:** Nickel plated brass | M12 | | 5~7.5 | KSM-12-M | T3105120121-000 |
| **Temperature range:** -40ºC ~ +100ºC | M16 | | 7~10 | KSM-16-M | T3105160121-000 |
| | M20 | | 10~14 | KSM-20-M | T3105200121-000 |
| | M25 | | 12~21.5 | KSM-25-M | T3105250121-000 |
| | M32 | | 16~27 | KSM-32-M | T3105320121-000 |
| | M40 | | 23~33 | KSM-40-M | T3105400121-000 |
| | M50 | | 25~38.5 | KSM-50-M | T3105500121-000 |
| | M63 | | 39~46 | KSM-63-M | T3105630121-000 |
| Metal flexible tube fittings | | | | | |
| | | PG11 | Ø6 | NTC-11-MS | T3510111201-000 |
| | | PG13.5 | Ø8 | NTC-13-MTS | T3510130124-000 |
| | | PG13.5 | Ø10 | NTC-13-MS | T3510130114-000 |
| | | PG13.5 | Ø12 | NTC-13-MES | T3510130134-000 |
| | | PG16 | Ø10 | NTC-16-MTS | T3510160124-000 |
| | | PG16 | Ø12 | NTC-16-MS | T3510160114-000 |
| | | PG16 | Ø16 | NTC-16-MES | T3510161501-000 |
| | | PG21 | Ø16 | NTC-21-MTS | T3510210124-000 |
| | | PG21 | Ø20 | NTC-21-MS | T3510212001-000 |
| | | PG29 | Ø20 | NTC-29-MTS | T3510290124-000 |
| **Material:** Zinc alloy | | PG29 | Ø25 | NTC-29-MS | T3510292501-000 |
| **Seal material:** PA | | PG36 | Ø32 | NTC-36-MS | T3510363201-000 |
| **Temperature range:** -40ºC ~ +100ºC | | PG42 | Ø38 | NTC-42-MS | T3510420114-000 |
| **Protection:** IP40-IP65 | | PG48 | Ø51 | NTC-48-MS | T3510480114-000 |
| | M12 X 1.5 | | Ø6 | NTC-12-M | T3510120124-000 |
| | M16 X 1.5 | | Ø8 | NTC-16-MT | T3510161002-000 |
| | M16 X 1.5 | | Ø10 | NTC-16-M | T3510160102-000 |
| | M16 X 1.5 | | Ø12 | NTC-16-ME | T3510160122-000 |
| | M20 X 1.5 | | Ø10 | NTC-20-MT | T3510201602-000 |
| | M20 X 1.5 | | Ø12 | NTC-20-M | T3510201202-000 |
| | M20 X 1.5 | | Ø16 | NTC-20-MT | T3510201502-000 |
| | M25 X 1.5 | | Ø16 | NTC-25-MT | T3510251502-000 |
| | M25 X 1.5 | | Ø20 | NTC-25-M | T3510252002-000 |
| | M32 X 1.5 | | Ø20 | NTG-32-MT | T3510320112-000 |
| | M32 X 1.5 | | Ø25 | NTC-32-M | T3510322002-000 |
| | M40 X 1.5 | | Ø32 | NTC-40-M | T3510403202-000 |
| | M50 X 1.5 | | Ø38 | NTC-50-M | T3510500102-000 |
| | M63 X 1.5 | | Ø51 | NTC-63-M | T3510635102-000 |

| | Metr. | PG | Clamp range (mm) | Type | Part Number |
|---|---|---|---|---|---|
| Nylon flexible tube fittings | | | | | |
| **Material:** PA **Temperature range:** -40ºC ~ +100ºC **Protection:** IP65 | | PG7 | AD 10.0 | NTC-7-PMS | T3511070701-000 |
| | | PG9 | AD 13.0 | NTC-9-PMS | T3511091001-000 |
| | | PG11 | AD 15.8 | NTC-11-PMS | T3511111201-000 |
| | | PG13.5 | AD 18.5 | NTC-13-PMES | T3511131401-000 |
| | | PG13.5 | AD 21.2 | NTC-13-PMZS | T3511131401-001 |
| | | PG16 | AD 21.2 | NTC-16-PMS | T3511161701-000 |
| | | PG21 | AD 28.5 | NTC-21-PMS | T3511212301-000 |
| | | PG29 | AD 34.5 | NTC-29-PMS | T3511292901-000 |
| | | PG36 | AD 42.5 | NTC-36-PMS | T3511363601-000 |
| | | PG42 | AD 54.5 | NTC-42-PMS | T3511424301-000 |
| | | PG48 | AD 54.5 | NTC-48-PMS | T3511484801-000 |
| | M10 X 1.5 | | AD 10.0 | NTC-10-PM | T3511100602-000 |
| | M12 X 1.5 | | AD 10.0 | NTC-12-PMT | T3511120702-000 |
| | M12 X 1.5 | | AD 13.0 | NTC-12-PM | T3511120702-001 |
| | M16 X 1.5 | | AD 13.0 | NTC-16-PMT | T3511161002-000 |
| | M16 X 1.5 | | AD 15.8 | NTC-16-PM | T3511161202-000 |
| | M20 X 1.5 | | AD 18.5 | NTC-20-PMT | T3511201402-000 |
| | M20 X 1.5 | | AD 21.2 | NTC-20-PM | T3511201702-000 |
| | M25 X 1.5 | | AD 21.2 | NTC-25-PMT | T3511251702-000 |
| | M25 X 1.5 | | AD 25.8 | NTC-25-PM | T3511252002-000 |
| | M25 X 1.5 | | AD 28.5 | NTC-25-PME | T3511252302-000 |
| | M32 X 1.5 | | AD 28.5 | NTC-32-PMT | T3511322302-000 |
| | M32 X 1.5 | | AD 31.5 | NTC-32-PM | T3511322602-000 |
| | M32 X 1.5 | | AD 34.5 | NTC-32-PME | T3511322902-000 |
| | M40 X 1.5 | | AD 34.5 | NTC-40-PMT | T3511402802-000 |
| | M40 X 1.5 | | AD 42.5 | NTC-40-PM | T3511403602-000 |
| | M50 X 1.5 | | AD 42.5 | NTC-50-PMT | T3511503502-000 |
| | M50 X 1.5 | | AD 54.5 | NTC-50-PM | T3511504802-000 |
| | M63 X 1.5 | | AD 54.5 | NTC-63-PM | T3511634802-000 |
| Nylon blind plugs | | | | | |
| **Material:** PA **Temperature range:** -20ºC ~ +70ºC **Protection:** IP65 | | PG9 | | DN-9-P | T3169090101-000 |
| | | PG11 | | DN-11-P | T3169110101-000 |
| | | PG13.5 | | DN-13-P | T3169130101-000 |
| | | PG16 | | DN-16-P | T3169160101-000 |
| | | PG21 | | DN-21-P | T3169210101-000 |
| | | PG29 | | DN-29-P | T3169290101-000 |
| | | PG36 | | DN-36-P | T3169360101-000 |
| | | PG42 | | DN-42-P | T3169420101-000 |
| | | PG48 | | DN-48-P | T3169480101-000 |
| | M12 | | 5-7.5 | DN-12-PM | T3169120121-000 |
| | M16 | | 7-10 | DN-16-PM | T3169160111-000 |
| | M20 | | 10-14 | DN-20-PM | T3169200111-000 |
| | M25 | | 12-21.5 | DN-25-PM | T3169250111-000 |
| | M32 | | 16-27 | DN-32-PM | T3169320111-000 |
| | M40 | | 23-33 | DN-40-PM | T3169400111-000 |
| | M50 | | 25-38.5 | DN-50-PM | T3169500111-000 |
| | M63 | | 39-46 | DN-63-PM | T3169630111-000 |



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## Cable fittings and accessories

| | Metr. | PG | Type | Part Number |
|---|---|---|---|---|
| Metal blind plugs | | | | |
| <br>**Material:** Nickel plated brass<br>**Temperature range:** -40ºC ~ +100ºC<br>**Protection:** IP65 | | PG7 | BLIND-7-MS | T3165070101-000 |
| | | PG9 | BLIND-9-MS | T3165090101-000 |
| | | PG11 | BLIND-11-MS | T3165110101-000 |
| | | PG13.5 | BLIND-13-MS | T3165130101-000 |
| | | PG16 | BLIND-16-MS | T3165160101-000 |
| | | PG21 | BLIND-21-MS | T3165210101-000 |
| | | PG29 | BLIND-29-MS | T3165290101-000 |
| | | PG36 | BLIND-36-MS | T3165360101-000 |
| | | PG42 | BLIND-42-MS | T3165420101-000 |
| | | PG48 | BLIND-48-MS | T3165480101-000 |
| | M12 X 1.5 | | BLIND-12-M | T3165120111-000 |
| | M16 X 1.5 | | BLIND-16-M | T3165160111-000 |
| | M20 X 1.5 | | BLIND-20-M | T3165200111-000 |
| | M25 X 1.5 | | BLIND-25-M | T3165250111-000 |
| | M32 X 1.5 | | BLIND-32-M | T3165320111-000 |
| | M40 X 1.5 | | BLIND-40-M | T3165400111-000 |
| | M50 X 1.5 | | BLIND-50-M | T3165500111-000 |
| | M63 X 1.5 | | BLIND-63-M | T3165630111-000 |
| Nylon blind plugs | | | | |
| <br>**Material:** PA<br>**Temperature range:** -40ºC ~ +100ºC<br>**Protection:** IP65 | | PG7 | BLIND-7-P | T3166070101-000 |
| | | PG9 | BLIND-9-P | T3166090101-000 |
| | | PG11 | BLIND-11-P | T3166110101-000 |
| | | PG13.5 | BLIND-13-P | T3166130101-000 |
| | | PG16 | BLIND-16-P | T3166160101-000 |
| | | PG21 | BLIND-21-P | T3166210101-000 |
| | | PG29 | BLIND-29-P | T3166290101-000 |
| | | PG36 | BLIND-36-P | T3166360101-000 |
| | | PG42 | BLIND-42-P | T3166420101-000 |
| | | PG48 | BLIND-48-P | T3166480101-000 |
| | M12 X 1.5 | | BLIND-12-PM | T3166120111-000 |
| | M16 X 1.5 | | BLIND-16-PM | T3166160111-000 |
| | M20 X 1.5 | | BLIND-20-PM | T3166200111-000 |
| | M25 X 1.5 | | BLIND-25-PM | T3166250111-000 |
| | M32 X 1.5 | | BLIND-32-PM | T3166320111-000 |
| | M40 X 1.5 | | BLIND-40-PM | T3166400111-000 |
| | M50 X 1.5 | | BLIND-50-PM | T3166500111-000 |
| | M63 X 1.5 | | BLIND-63-PM | T3166630111-000 |

| | Metr. | PG | Type | Part Number |
|---|---|---|---|---|
| Metal blind plugs | | | | |
| **Material:** Nickel plated brass **Temperature range:** -40ºC ~ +100ºC **Protection:** IP65 | | PG7 | BLIND-7-HMS | T3165070201-000 |
| | | PG9 | BLIND-9-HMS | T3165090201-000 |
| | | PG11 | BLIND-11-HMS | T3165110201-000 |
| | | PG13.5 | BLIND-13-HMS | T3165130201-000 |
| | | PG16 | BLIND-16-HMS | T3165160201-000 |
| | | PG21 | BLIND-21-HMS | T3165210201-000 |
| | | PG29 | BLIND-29-HMS | T3165290201-000 |
| | | PG36 | BLIND-36-HMS | T3165360201-000 |
| | | PG42 | BLIND-42-HMS | T3165420201-000 |
| | | PG48 | BLIND-48-HMS | T3165480201-000 |
| | M12 X 1.5 | | BLIND-12-HM | T3165120211-000 |
| | M16 X 1.5 | | BLIND-16-HM | T3165160211-000 |
| | M20 X 1.5 | | BLIND-20-HM | T3165200211-000 |
| | M25 X 1.5 | | BLIND-25-HM | T3165250211-000 |
| | M32 X 1.5 | | BLIND-32-HM | T3165320211-000 |
| | M40 X 1.5 | | BLIND-40-HM | T3165400211-000 |
| | M50 X 1.5 | | BLIND-50-HM | T3165500211-000 |
| | M63 X 1.5 | | BLIND-63-HM | T3165630211-000 |



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## Cable fittings and accessories

| | Metr. | PG | Type | Part Number |
|---|---|---|---|---|
| Metal lock units | | | | |
| **Material:** Nickel plated brass **Temperature range:** -40ºC ~ +100ºC | | PG7 | LN-7-MS | T3161070001-000 |
| | | PG9 | LN-9-MS | T3161090001-000 |
| | | PG11 | LN-11-MS | T3161110001-000 |
| | | PG13.5 | LN-13-MS | T3161130001-000 |
| | | PG16 | LN-16-MS | T3161160001-000 |
| | | PG21 | LN-21-MS | T3161210001-000 |
| | | PG29 | LN-29-MS | T3161290001-000 |
| | | PG36 | LN-36-MS | T3161360001-000 |
| | | PG42 | LN-42-MS | T3161420001-000 |
| | | PG48 | LN-48-MS | T3161480001-000 |
| | M12 X 1.5 | | LN-12-M | T3161120050-000 |
| | M16 X 1.5 | | LN-16-M | T3161160050-000 |
| | M20 X 1.5 | | LN-20-M | T3161200050-000 |
| | M25 X 1.5 | | LN-25-M | T3161250050-000 |
| | M32 X 1.5 | | LN-32-M | T3161320050-000 |
| | M40 X 1.5 | | LN-40-M | T3161400050-000 |
| | M50 X 1.5 | | LN-50-M | T3161500050-000 |
| | M63 X 1.5 | | LN-63-M | T3161630050-000 |
| Nylon lock units | | | | |
| **Material:** PA **Temperature range:** -40ºC ~ +100ºC | | PG7 | LN-7-P | T3262070001-000 |
| | | PG9 | LN-9-P | T3262090001-000 |
| | | PG11 | LN-11-P | T3262110001-000 |
| | | PG13.5 | LN-13-P | T3262130001-000 |
| | | PG16 | LN-16-P | T3262160001-000 |
| | | PG21 | LN-21-P | T3262210001-000 |
| | | PG29 | LN-29-P | T3262290001-000 |
| | | PG36 | LN-36-P | T3262360001-000 |
| | | PG42 | LN-42-P | T3262420001-000 |
| | | PG48 | LN-48-P | T3262480001-000 |
| | M12 X 1.5 | | LN-12-PM | T3262120050-000 |
| | M16 X 1.5 | | LN-16-PM | T3262160050-000 |
| | M20 X 1.5 | | LN-20-PM | T3262200050-000 |
| | M25 X 1.5 | | LN-25-PM | T3262250050-000 |
| | M32 X 1.5 | | LN-32-PM | T3262320050-000 |
| | M40 X 1.5 | | LN-40-PM | T3262400050-000 |
| | M50 X 1.5 | | LN-50-PM | T3262500050-000 |
| | M63 X 1.5 | | LN-63-PM | T3262630050-000 |

| | Metr. | PG | Type | Part Number |
|---|---|---|---|---|
| Metal increasers | | | | |
| <br>**Material:** Nickel plated brass<br>**Temperature range:** -40ºC ~ +100ºC | | PG7-PG9 | INCR-7/9-PG | T3033070901-000 |
| | | PG9-PG11 | INCR-9/11-PG | T3033091101-000 |
| | | PG11-PG13.5 | INCR-11/13-PG | T3033111301-000 |
| | | PG11-PG16 | INCR-11/16-PG | T3033111601-000 |
| | | PG13.5-PG16 | INCR-13/16-PG | T3033131601-000 |
| | | PG13.5-PG21 | INCR-13/21-PG | T3033132101-000 |
| | | PG16-PG21 | INCR-16/21-PG | T3033162101-000 |
| | | PG21-PG29 | INCR-21/29-PG | T3033212901-000 |
| | | PG29-PG36 | INCR-29/36-PG | T3033293601-000 |
| | | PG36-PG42 | INCR-36/42-PG | T3033364201-000 |
| | M16-M20 | | INCR-16/20-M | T3033162050-000 |
| | M20-M25 | | INCR-20/25-M | T3033202550-000 |
| | M25-M32 | | INCR-25/32-M | T3033253250-000 |
| | M32-M40 | | INCR-32/40-M | T3033324050-000 |
| | M40-M50 | | INCR-40/50-M | T3033405050-000 |
| | M50-M63 | | INCR-50/63-M | T3033506350-000 |
| Metal reducers | | | | |
| <br>**Material:** Nickel plated brass<br>**Temperature range:** -40ºC ~ +100ºC | | PG9-PG7 | REDU-9/7-PG | T3071090701-000 |
| | | PG11-PG7 | REDU-11/7-PG | T3071110701-000 |
| | | PG13.5-PG9 | REDU-13/9-PG | T3071130901-000 |
| | | PG13.5-PG11 | REDU-13/11-PG | T3071131101-000 |
| | | PG16-PG9 | REDU-16/9-PG | T3071160901-000 |
| | | PG16-PG11 | REDU-16/11-PG | T3071161101-000 |
| | | PG16-PG13.5 | REDU-16/13-PG | T3071161301-000 |
| | | PG21-PG11 | REDU-21/11-PG | T3071211101-000 |
| | | PG21-PG13.5 | REDU-21/13-PG | T3071211301-000 |
| | | PG21-PG16 | REDU-21/16-PG | T3071211601-000 |
| | | PG29-PG16 | REDU-29/16-PG | T3071291601-000 |
| | | PG29-PG21 | REDU-29/21-PG | T3071292101-000 |
| | | PG36-PG21 | REDU-36/21-PG | T3071362101-000 |
| | | PG36-PG29 | REDU-36/29-PG | T3071362901-000 |
| | | PG42-PG29 | REDU-42/29-PG | T3071422901-000 |
| | | PG42-PG36 | REDU-42/36-PG | T3071423601-000 |
| | | PG48-PG36 | REDU-48/36-PG | T3071483601-000 |
| | | PG48-PG42 | REDU-48/42-PG | T3071484201-000 |
| | M16-M12 | | REDU-16/12-M | T3071161250-000 |
| | M20-M12 | | REDU-20/12-M | T3071201250-000 |
| | M20-M16 | | REDU-20/16-M | T3071201650-000 |
| | M25-M20 | | REDU-25/20-M | T3071252050-000 |
| | M32-M20 | | REDU-32/20-M | T3071322050-000 |
| | M32-M25 | | REDU-32/25-M | T3071322550-000 |
| | M40-M25 | | REDU-40/25-M | T3071402550-000 |
| | M40-M32 | | REDU-40/32-M | T3071403250-000 |
| | M50-M32 | | REDU-50/32-M | T3071503250-000 |
| | M50-M40 | | REDU-50/40-M | T3071504050-000 |
| | M63-M40 | | REDU-63/40-M | T3071634050-000 |
| | M63-M50 | | REDU-63/50-M | T3071635050-000 |



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

## Cable fittings and accessories

| | | | Type | Dimension | Part Number |
|---|---|---|---|---|---|
| Cable clamper | | | | | |
| **Material:** Metal **Protection:** IP65 | | | BK 14 | 12~14 | T1918121400-000 |
| | | | BK 18 | 14~18 | T1918121800-000 |
| | | | BK 22 | 18~22 | T1922182200-000 |
| | | | BK 26 | 22~26 | T1926222600-000 |
| | | | BK 32 | 26~32 | T1932263200-000 |
| | | | BK 34 | 30~34 | T1934303400-000 |
| | | | BK 38 | 34~38 | T1912063800-000 |
| | | | BK 42 | 38~42 | T1942384200-000 |
| | | | BK 48 | 42~48 | T1912064800-000 |
| | | | BK 52 | 48~52 | T1912065200-000 |
| | | | BK 56 | 52~56 | T1912065600-000 |
| | | | BK 60 | 56~60 | T1912066000-000 |
| | | | BK 64 | 60~64 | T1964566400-000 |
| C-Type rail | T 19 0000 0000-000 | rail adaptor system | BK 70 | 64~70 | T1970667000-000 |
| Cable clamper | | | | | |
| Direct installation yokes | | | SKT3-8SC | 3-8 | T3920030801-000 |
| | | | SKT4-13SC | 4-13.5 | T3920041301-000 |
| | | | SKT10-20SC | 10-20 | T3920102001-000 |
| | | | SKT15-32SC | 15-32 | T3920153201-000 |
| Direct rail mounting | | | SKTP3-8SC | 3-8 | T3930030801-000 |
| | | | SKTP4-13SC | 4-13.5 | T3930041301-000 |
| | | | SKTP10-20SC | 10-20 | T3930102001-000 |
| | | | SKTP15-32SC | 15-32 | T3930153201-000 |
| Mounting rails | | | SKT2-6 | 2-6 | T3910020601-000 |
| | | | SKT3-8 | 3-8 | T3910030801-000 |
| | | | SKT4-13.5 | 4-13.5 | T3910041301-000 |
| | | | SKT10-20 | 10-20 | T3910102001-000 |
| Quick installation yokes | | | SKT15-32 | 15-32 | T3910153201-000 |
| | | | QSKT 1-6 | 1.5-6.5 | T3930010600-000 |
| | | | QSKT 5-11 | 5-11 | T3930051100-000 |
| | | | QSKT 10-17 | 10-17 | T3930101700-000 |

| | Type | Dimension | Type | Part Number |
|---|---|---|---|---|
| Clips | | | | |
| **Material:** Stainless steel **Temperature range:** -40ºC ~ +105ºC | AD10 | 10 | Clip-06 | T3310010000-000 |
| | AD13 | 13 | Clip-09 | T3310013000-000 |
| | AD15.8 | 15 | Clip-11 | T3310015000-000 |
| | AD21.2 | 22 | Clip-16 | T3310022000-000 |
| | AD28.5 | 28 | Clip-21 | T3310028000-000 |
| | AD34.5 | 34 | Clip-29 | T3310034000-000 |
| | AD42.5 | 40 | Clip-36 | T3310040000-000 |
| | AD54.5 | 54 | Clip-48 | T3310054000-000 |
| | AD80 | 79 | Clip-70 | T3310079000-000 |
| | AD106 | 105 | Clip-95 | T3310105000-000 |

| | Metr. | PG | Clamp range | Type | Part Number |
|---|---|---|---|---|---|
| Metal cable gland | | | | | |
| **Material:** Nickel plated brass **Press seal material:** PA **Seal material:** NBR **Temperature range:** -40ºC ~ +100ºC **Protection:** IP68 | | PG7 | 2~5<br>3~6.5 | DLX-7-NMTS<br>DLX-7-NMS | T3629070111-000<br>T3629070101-000 |
| | | PG9 | 2~6<br>4~8 | DLX-9-NMTS<br>DLX-9-NMS | T3629090111-000<br>T3629090101-000 |
| | | PG11 | 3~7<br>5~10 | DLX-11-NMTS<br>DLX-11-NMS | T3629110111-000<br>T3629110101-000 |
| | | PG13.5 | 5~9<br>6~12 | DLX-13-NMTS<br>DLX-13-NMS | T3629130111-000<br>T3629130101-000 |
| | | PG16 | 7~12<br>10~14 | DLX-16-NMTS<br>DLX-16-NMS | T3629160111-000<br>T3629160101-000 |
| | | PG21 | 9~16<br>13~18 | DLX-21-NMTS<br>DLX-21-NMS | T3629210111-000<br>T3629210101-000 |
| | | PG29 | 13~20<br>18~25 | DLX-29-NMTS<br>DLX-29-NMS | T3629290111-000<br>T3629290101-000 |
| | | PG36 | 20~26<br>22~32 | DLX-36-NMTS<br>DLX-36-NMS | T3629360111-000<br>T3629360101-000 |
| | | PG42 | 25~31<br>32~38 | DLX-42-NMTS<br>DLX-42-NMS | T3629420111-000<br>T3629420101-000 |
| | | PG48 | 29~35<br>37~44 | DLX-48-NMTS<br>DLX-48-NMS | T3629480111-000<br>T3629480101-000 |
| | M12 X 1.5 | | 2~5<br>3~6.5 | DLX-12-NMT<br>DLX-12-NM | T3629120112-000<br>T3629120102-000 |
| | M16 X 1.5 | | 2~6<br>4~8 | DLX-16-NMT<br>DLX-16-NM | T3629160112-000<br>T3629160102-000 |
| | M20 X 1.5 | | 5~9<br>6~12 | DLX-20-NMT<br>DLX-20-NM | T3629200112-000<br>T3629200102-000 |
| | M25 X 1.5 | | 9~16<br>13~18 | DLX-25-NMT<br>DLX-25-NM | T3629250112-000<br>T3629250102-000 |
| | M32 X 1.5 | | 13~20<br>18~25 | DLX-32-NMT<br>DLX-32-NM | T3629320112-000<br>T3629320102-000 |
| | M40 X 1.5 | | 20~26<br>22~32 | DLX-40-NMT<br>DLX-40-NM | T3629400112-000<br>T3629400102-000 |
| | M50 X 1.5 | | 25~31<br>32~38 | DLX-50-NMT<br>DLX-50-NM | T3629500112-000<br>T3629500102-000 |
| | M63 X 1.5 | | 29~35<br>37~44 | DLX-63-NMT<br>DLX-63-NM | T3629630112-000<br>T3629630102-000 |
| Angled metal cable glands | | | | | |
| **Material:** Nickel plated brass **Temperature range:** -40ºC ~ +100ºC **Protection:** IP68 | M16 X 1.5<br>M20 X 1.5<br>M25 X 1.5<br>M32 X 1.5<br>M40 X 1.5 | PG11<br>PG13.5<br>PG16<br>PG21<br>PG29<br>PG36 | Ø11<br>Ø14<br>Ø16<br>Ø18<br>Ø21<br>Ø31<br>Ø12<br>Ø15.5<br>Ø20.5<br>Ø27.5<br>Ø34.5 | STUD-9-MS<br>STUD-11-MS<br>STUD-13-MS<br>STUD-16-MS<br>STUD-21-MS<br>STUD-29-MS<br>STUD-16-M<br>STUD-20-M<br>STUD-25-M<br>STUD-32-M<br>STUD-40-M | T3265090901-000<br>T3265111101-000<br>T3265131301-000<br>T3265160101-000<br>T3265212101-000<br>T3265292901-000<br>T3265161611-000<br>T3265202011-000<br>T3265252511-000<br>T3265252511-000<br>T3265404011-000 |



All specifications subject to change. Consult TE Connectivity for latest design specifications.
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## Cable fittings and accessories

| | Metr. | PG | Clamp range | Type | Part Number |
|---|---|---|---|---|---|
| Metal cable gland | | | | | |
| **Material:** Nickel plated brass<br>**Seal material:** NBR<br>**Temperature range:** -30ºC ~ +100ºC<br>**Protection:** IP55 | | PG7 | 6~8 | VSM-7-MS | T3105070101-000 |
| | | PG9 | 5~10 | VSM-9-MS | T3105090101-000 |
| | | PG11 | 7~12 | VSM-11-MS | T3105110101-000 |
| | | PG13.5 | 7~12 | VSM-13-MS | T3105130101-000 |
| | | PG16 | 7~15 | VSM-16-MS | T3105160101-000 |
| | | PG21 | 10~19 | VSM-21-MS | T3105210101-000 |
| | | PG29 | 18~27 | VSM-29-MS | T3105290101-000 |
| | | PG36 | 24~32 | VSM-36-MS | T3105360101-000 |
| | | PG42 | 30~39 | VSM-42-MS | T3105420101-000 |
| | | PG48 | 36~45 | VSM-48-MS | T3105480101-000 |
| | M12 X 1.5 | | 4.5~7 | VSM-12-M | T3105120021-000 |
| | M16 X 1.5 | | 6.5~9 | VSM-16-M | T3105160021-000 |
| | M20 X 1.5 | | 6.5~9 | VSM-20-M | T3105200021-000 |
| | M20 X 1.5 | | 6~11.5 | VSM-20T-M | T3105200121-000 |
| | M25 X 1.5 | | 8~13 | VSM-25-M | T3105250021-000 |
| | M25 X 1.5 | | 12.5~18 | VSM-25T-M | T3105250121-000 |
| | M32 X 1.5 | | 17~26 | VSM-32-M | T3105320021-000 |
| | M40 X 1.5 | | 17~26 | VSM-40-M | T3105400021-000 |
| | M50 X 1.5 | | 27~32 | VSM-50-M | T3105500021-000 |
| | M50 X 1.5 | | 35~38.5 | VSM-50T-M | T3105500121-000 |
| | M63 X 1.5 | | 38~44 | VSM-63-M | T3105630021-000 |
| Extender | | | | | |
| **Material:** Nickel plated brass<br>**Temperature range:** -40ºC ~ +100ºC | | PG11 | | STUD-PG11 | T3333111112-000 |
| | | PG13.5 | | STUD-PG13.5 | T3333131312-000 |
| | | PG16 | | STUD-PG16 | T3333161612-000 |
| | | PG21 | | STUD-PG21 | T3333212112-000 |
| | | PG29 | | STUD-PG29 | T3333292912-000 |
| | | PG36 | | STUD-PG36 | T3333363612-000 |
| | M12 X 1.5 | | | STUD-M12 | T3333121211-000 |
| | M16 X 1.5 | | | STUD-M16 | T3333161611-000 |
| | M20 X 1.5 | | | STUD-M20 | T3333202011-000 |
| | M25 X 1.5 | | | STUD-M25 | T3333252511-000 |
| | M32 X 1.5 | | | STUD-M32 | T3333323211-000 |
| | M40 X 1.5 | | | STUD-M40 | T3333404011-000 |
| | M50 X 1.5 | | | STUD-M50 | T3333505011-000 |
| | M63 X 1.5 | | | STUD-M63 | T3333636311-000 |

## Cable fittings and accessories

| | Metr. | PG | Type | Part Number |
|---|---|---|---|---|
| Inside and outside thread adapter | | | | |
| <br>**Material:** Nickel plated brass<br>**Temperature range:** -40ºC ~ +100ºC | | PG11 | STUD-PG11 | T3333111102-000 |
| | | PG13.5 | STUD-PG13.5 | T3333131302-000 |
| | | PG16 | STUD-PG16 | T3333161602-000 |
| | | PG21 | STUD-PG21 | T3333212102-000 |
| | | PG29 | STUD-PG29 | T3333292902-000 |
| | | PG36 | STUD-PG36 | T3333363602-000 |
| | M12 X 1.5 | | STUD-M12 | T3333121201-000 |
| | M16 X 1.5 | | STUD-M16 | T3333161601-000 |
| | M20 X 1.5 | | STUD-M20 | T3333202001-000 |
| | M25 X 1.5 | | STUD-M25 | T3333252501-000 |
| | M32 X 1.5 | | STUD-M32 | T3333323201-000 |
| | M40 X 1.5 | | STUD-M40 | T3333404001-000 |
| | M50 X 1.5 | | STUD-M50 | T3333505001-000 |
| | M63 X 1.5 | | STUD-M63 | T3333636301-000 |
| Cable gland clamps | | | | |
| <br>**Material:** Nickel plated brass<br>**Temperature range:** -30ºC ~ +100ºC<br>**Protection:** IP65 | | | WSM-16-MS | T3125160111-000 |
| | | | WSM-21-MS | T3125210111-000 |
| | | | WSM-32-M | T3125320001-000 |



All specifications subject to change. Consult TE Connectivity for latest design specifications.
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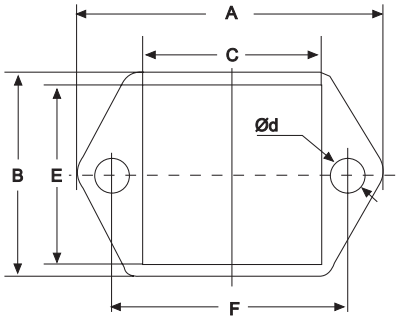
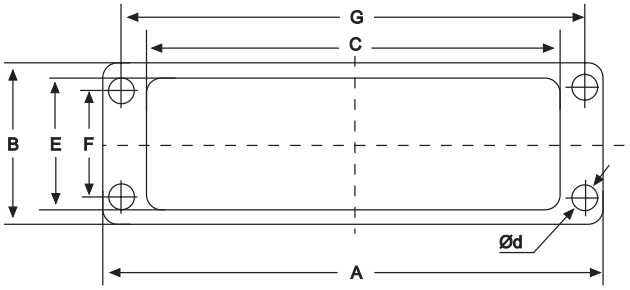
## Housings mounting dimensions




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 |
| 0-0164161-4 | 111 |
| 0-0164161-9 | 111 |
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| 0-1102837-2 | 268 |
| 0-1102837-2 | 273 |
| 0-1102837-2 | 295 |
| 0-1102838-1 | 100 |
| 0-1102838-1 | 153 |
| 0-1102838-1 | 268 |
| 0-1102838-1 | 273 |
| 0-1102838-1 | 295 |
| 0-1102838-2 | 100 |
| 0-1102838-2 | 153 |
| 0-1102838-2 | 268 |
| 0-1102838-2 | 273 |
| 0-1102838-2 | 295 |
| 0-1102839-1 | 100 |
| 0-1102839-1 | 153 |
| 0-1102839-1 | 268 |
| 0-1102839-1 | 273 |
| 0-1102839-1 | 295 |
| 0-1102839-2 | 100 |
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| 0-1102839-2 | 268 |
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| 0-1102839-2 | 295 |
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| 0-1102839-3 | 268 |
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| 0-1102839-3 | 295 |
| 0-1102839-4 | 100 |
| 0-1102839-4 | 153 |
| 0-1102839-4 | 268 |
| 0-1102839-4 | 295 |
| 0-1102839-4 | 273 |
| 0-1102839-5 | 273 |
| 0-1102839-6 | 273 |
| 0-1102840-1 | 100 |
| 0-1102840-1 | 153 |
| 0-1102840-1 | 268 |
| 0-1102840-1 | 273 |
| 0-1102840-1 | 295 |
| 0-1102840-2 | 100 |
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Contact TE for assistance with any part number configuration.

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## Notes

## Notes



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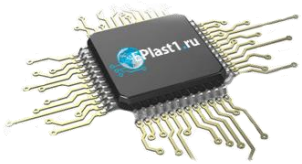


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