

HEAVY DUTY CONNECTORS

Contents

General guide

Product overview

HA Series.....	25-50
HD, HDD Series	51-112
HE, HEE, HEEE Series	113-168
HSB Series	169-180
HQ Series.....	181-196
HEAV Contact Series	197-200
HMN Modular Series.....	201-234
HK, HWK Series	235-276

Hoods and Housings

HA/HB series shells(IP65,IP68)	277-300
--------------------------------------	---------

Inserts mounting elements

Tools and inserts and rail mounting elements	301-310
--	---------

Accessories

Cable glands and accessories	311-330
------------------------------------	---------



Rolling Stock

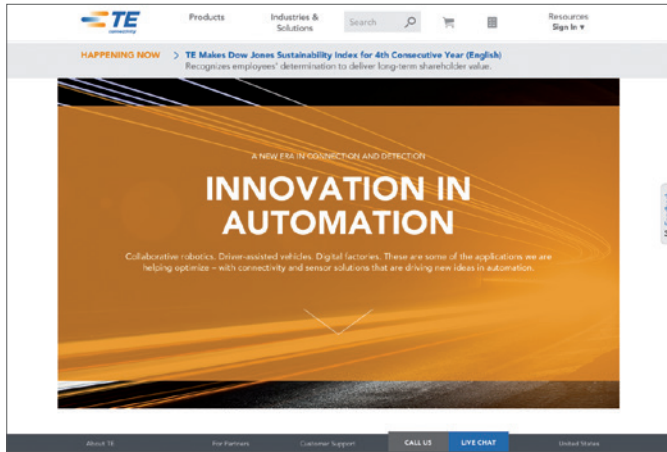


Machinery



Factory Automation

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



TE Connectivity Online

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

Product Information Centers

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

- Email us
- Call us
- Chat with us

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

Internet

te.com

Restriction on the Use of Hazardous Substances (RoHS)

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

ROHS COMPLIANT

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

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

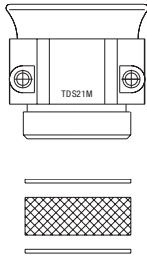
So whatever your questions when it comes to RoHS, we've got the answers at www.te.com/leadfree

RoHS
Customer
Support
Center 

General overview of heavy duty connectors

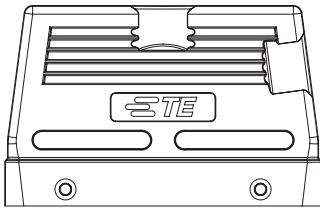
General features	TE's HDC product series is designed for data, signal and power connections in harsh environments. The modular connector design provides a high degree of flexibility so solutions can be customized for different applications such as machinery, robotics, railway, wind energy and conventional 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. Please contact us.
Specifications, Standards and Approvals	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 60664-1 DIN EN 61 984 IEC 60 529 3. Approvals     

Connector components



CABLE FITTING

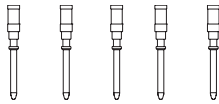
Special cable fittings for protection up to IP69K and for electro-magnetic compatibility available



HOOD

Standard and corrosion-resistant connector hoods:

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

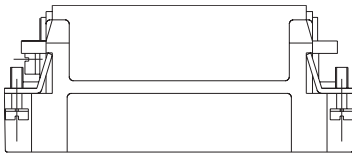


CONTACTS

Silver or gold plated

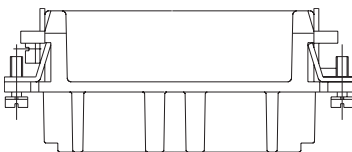
Solid machined contacts with screw, spring or crimp termination

Stamped and formed contacts



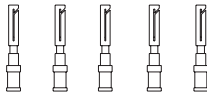
MALE INSERT

Screw, Spring clamp or crimp terminal



FEMALE INSERT

Screw, Spring clamp or crimp terminal



HOOD AND HOUSING

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

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



Terminal types

Screw dimensions and tightening torque for screw terminals

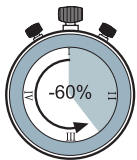
Wire gauge (mm ²)	1.5	2.5	4.0	6.0	10	16
Screw thread	M3	M3	M3.5	M4	M4	M6
Test moment of torque (Nm)	0.5	0.5	0.8	1.2	1.2	1.2
Min. pull-out for stranded wire (N)	40	50	60	80	90	100

Spring terminal

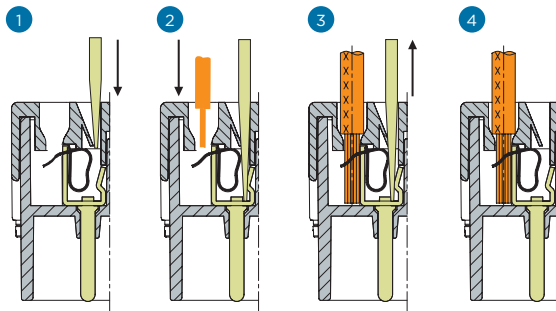
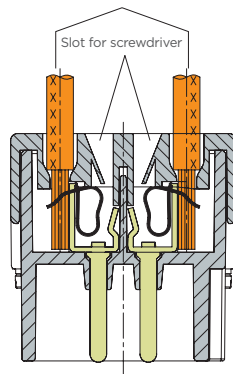
No special tools



60% faster



One conductor per termination



3.5x0.5mm

Screwdriver width: 3.5x0.5mm

SCREW TERMINAL

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

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

SPRING TERMINAL

The spring terminal offers a vibration proof termination for solid and stranded wires with cross sections ranging from 0.14 mm² to 2.5 mm² (AWG 26-14).

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

Internationally approved by UL, CSA, VDE.

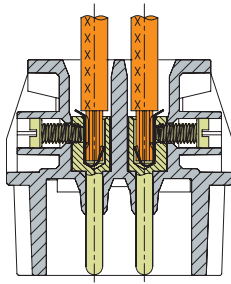
CRIMP TERMINATION

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

Terminal types

SCREW TERMINAL

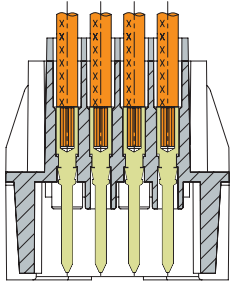
HA series
HE, HVE series
HSB series
HK series
HWK series
HEAV series



Inserts	Max. wire gauge		Stripping length L (mm)
	mm ²	AWG	
HA-003, HA-004	2.5	14	4.5
HA, HEAV	2.5	14	7.5
HE, HVE	2.5	14	7.5
HSB	6.0	10	7.5
HK, HWK	35.0	2.0	10.5

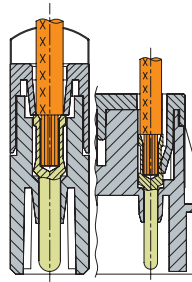
CRIMP TERMINAL

HD series
HDD series



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

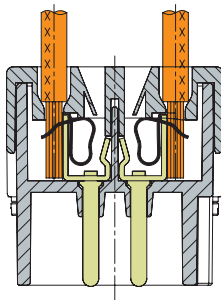
HAC, HEC series
HEEE, HEE series
HMN(16A/40A) series
HQ(16A/40A) series
HK(16A/40A) series



Inserts	Max. wire gauge		Stripping length L (mm)	
	mm ²	AWG	16A	40A
HAC	0.5	20	7.5	-
HEC	0.75	18	7.5	-
HEE/HEEE	1.0	18	7.5	9.2
HMN(16A/40A)	1.5	16	7.5	9.2
HQ(16A/40A)	2.5	14	7.5	9.2
HK(16A/40A)	4.0	12	7.5	9.2
	6.0	10	-	9.2

SPRING TERMINAL

HAS series
HES series
HESAV series



Inserts	Max. wire gauge		Stripping length L (mm)
	mm ²	AWG	
HAS, HES, HESAV	2.5	14	9-11

RECOMMENDED TIGHTENING TORQUE AND SIZE OF SCREW DRIVER

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

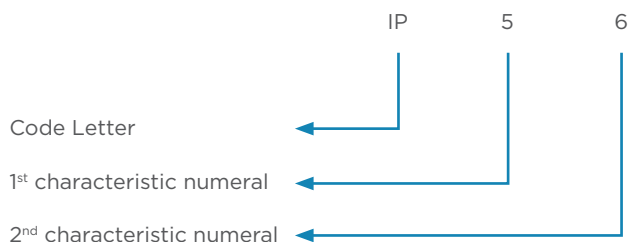
[illegible]

Degree of protection provided by enclosures

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

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

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



MEANING OF THE 1ST CHARACTERISTIC NUMERAL

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

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

MEANING OF THE 2ND CHARACTERISTIC NUMERAL

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

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

Standards

SPECIFICATIONS

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

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

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

Include some contents:

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

OVER-VOLTAGE CATEGORIES

1. Over-voltage category I

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

2. Over-voltage category II

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

3. Over-voltage category III

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

Insulation Coordination for Electrical Connectors in Low Voltage Plants

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

INSULATION COORDINATION

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

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

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

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

SURGE CATEGORY I TO IV

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

POLLUTION DEGREE 1 TO 4

DIN VDE 0110 defines the pollution degrees as follows:

Pollution Degree 1:

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

Pollution Degree 2:

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

Pollution Degree 3:

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

Pollution Degree 4:

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

Insulation Material

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

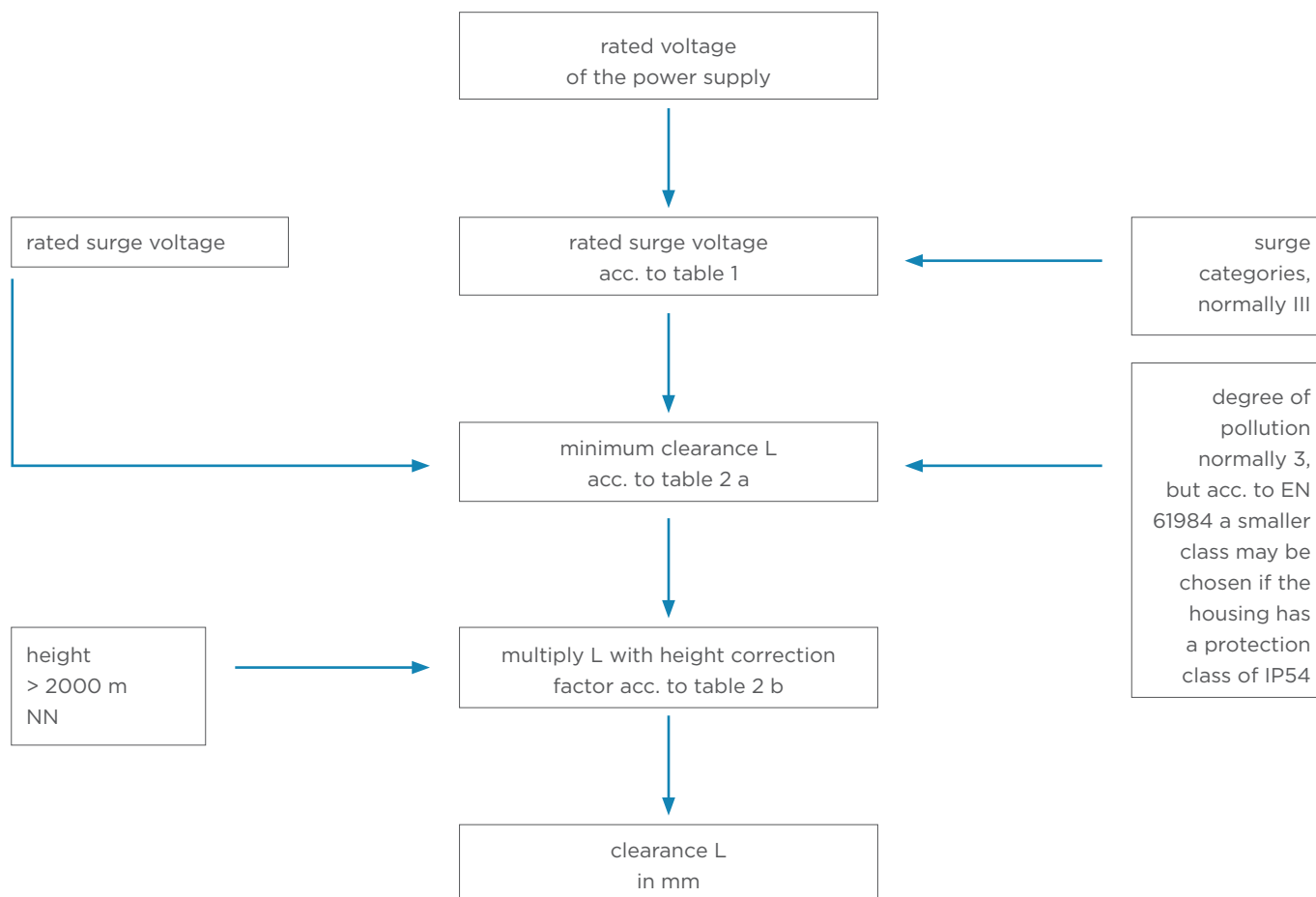
Insulation material I: $600 \leq \text{CTI}$

Insulation material II: $400 \leq \text{CTI} < 600$

Insulation material III a: $175 \leq \text{CTI} < 400$

Measurement of Clearances

DIAGRAM FOR THE DETERMINATION OF CLEARANCES



RATED SURGE VOLTAGE FOR UTILITIES

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

*) chosen voltage values

**) the / dash is for a 3-phase system with 4 lines. The lower value is for phase to neutral, the higher value is for phase to phase

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

“rated surge voltage [kV]”	case A, inhomogenous field, degree of pollution				case B, homogenous field, degree of pollution			
	1 (mm)	2 (mm)	3 (mm)	4 (mm)	1 (mm)	2 (mm)	3 (mm)	4 (mm)
0.33 _)	0.01	_)	0.80	1.6	0.01	_)	0.8	1.6
0.40	0.02				0.02			
0.5 _)	0.04				0.04			
0.60	0.06				0.06			
0.80 _)	0.10				0.10			
1.0	0.15	0.25	1.0	1.6	0.15	0.3	0.5	1.6
1.2	0.25				0.2			
1.5 _)	0.5	0.5	1.5	2	0.3	0.3	1.2	2
2.0	1.0	1.0			0.45	0.5		
2.5 _)	1.5	1.5	1.5	2	0.6	0.6	1.5	3
3.0	2	2	2	2	0.8	0.8	2	3.5
4.0 _)	3	3	3	3	1.2	1.2	2	4.5
5.0	4	4	4	4	1.5	1.5	2.5	5.5
6.0 _)	5.5	5.5	5.5	5.5	2	2	3	8
8.0 _)	8	8	8	8	3	3	3.5	10
10	11	11	11	11	3.5	3.5	4	12
12 _)	14	14	14	14	4.5	4.5	5	15
15	18	18	18	18	5.5	5.5	6	18
20	25	25	25	25	8	8	8	22
25	33	33	33	33	10	10	10	27
30	40	40	40	40	12.5	12.5	12.5	35
40	60	60	60	60	17	17	17	45
50	75	75	75	75	22	22	22	55
60	90	90	90	90	27	27	27	67
80	130	130	130	130	35	35	35	85
100	170	170	170	170	45	45	45	105

1) This voltage is

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

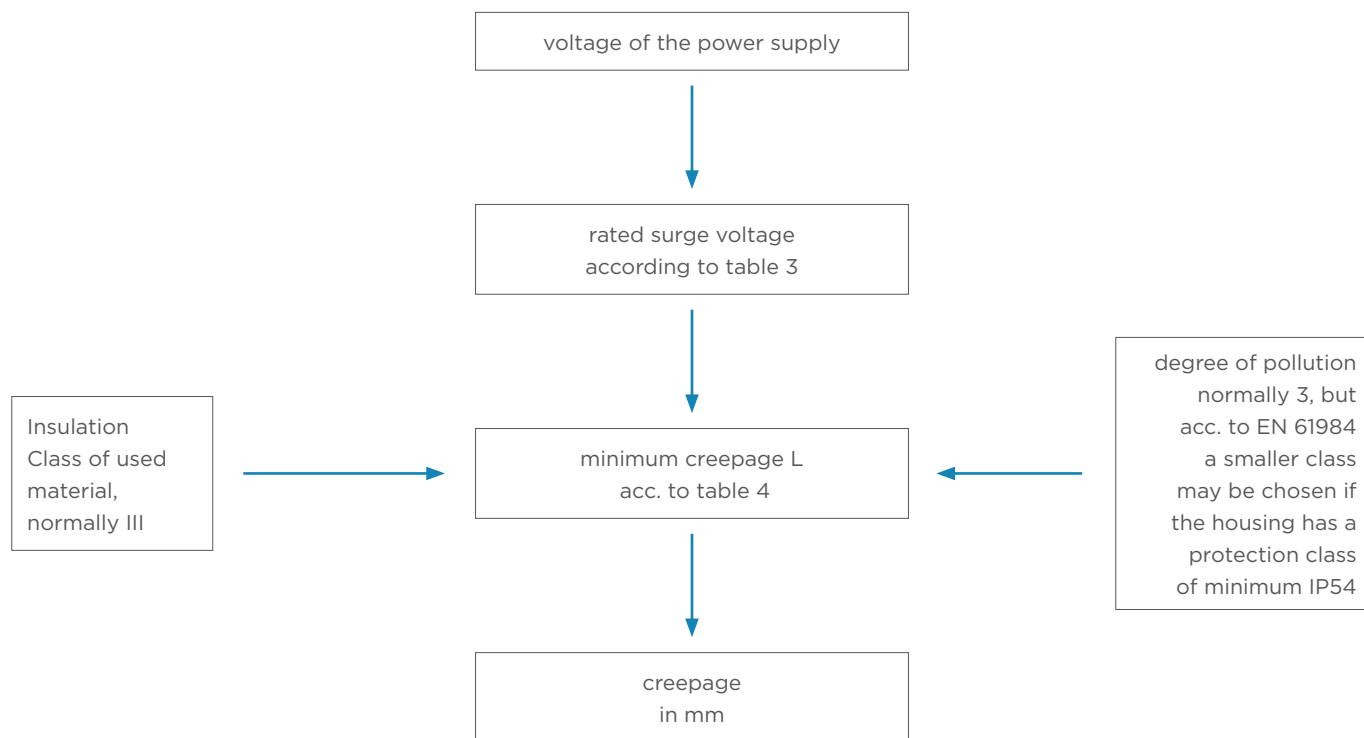
_) Preferred values

FACTORS FOR HEIGHT CORRECTION

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

Measurement of creepage

DIAGRAM FOR THE DETERMINATION OF CREEPAGE



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

Table 3

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

CREEPAGES IN [MM] FOR ELECTRICAL EQUIPMENTS

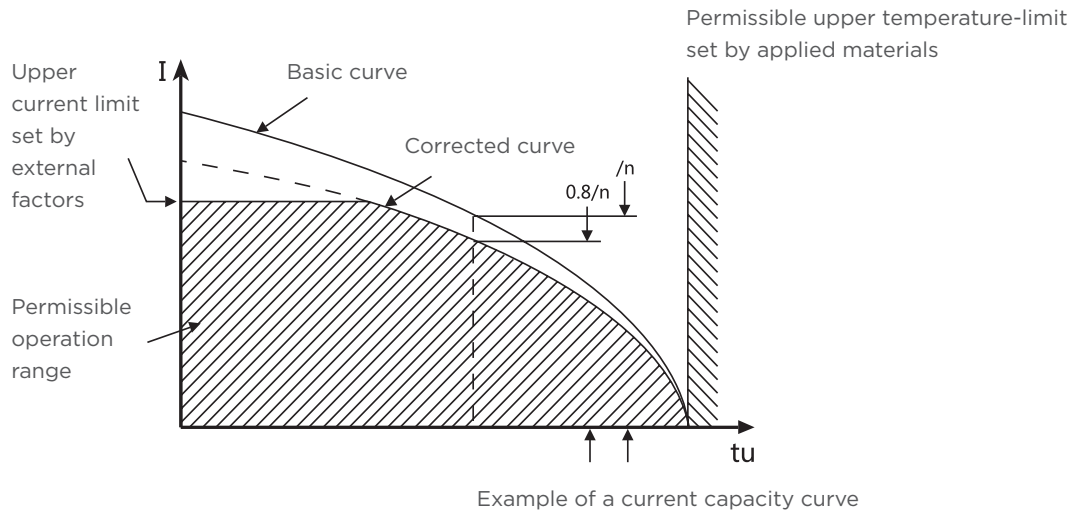
rated voltage [V]	degree of pollution									
	1 All Insulator Classes	2 Insulation Class			3 Insulation Class			4 Insulation Class		
		I	II	III	I	II	III	I	II	III
10	0.08	0.40	0.40	0.40	1.00	1.00	1.00	1.6	1.6	1.6
12.5	0.09	0.42	0.42	0.42	1.05	1.05	1.05	1.6	1.6	1.6
16	0.10	0.45	0.45	0.45	1.10	1.10	1.10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

Table 4

Standards

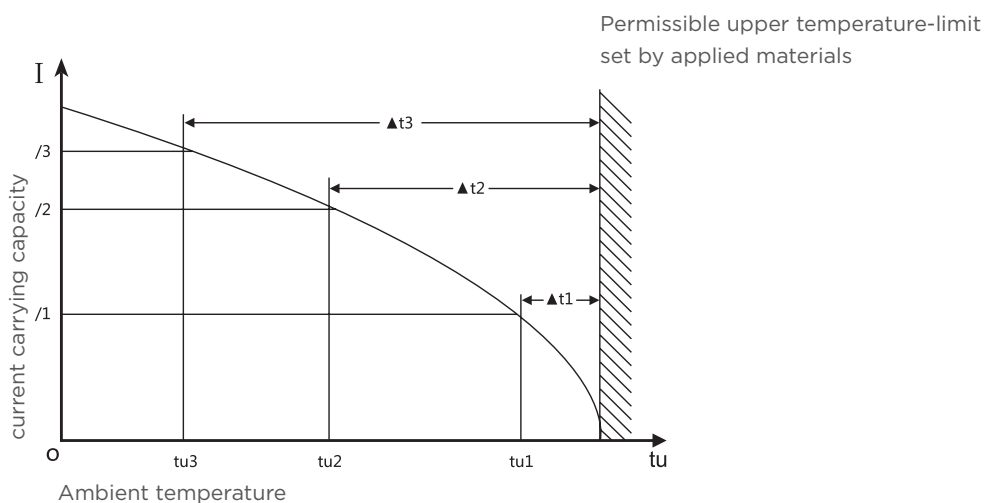
CURRENT CARRYING CAPACITY

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



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

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



Standards

TIGHTENING TORQUE OF TERMINAL BLOCK SCREWS

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

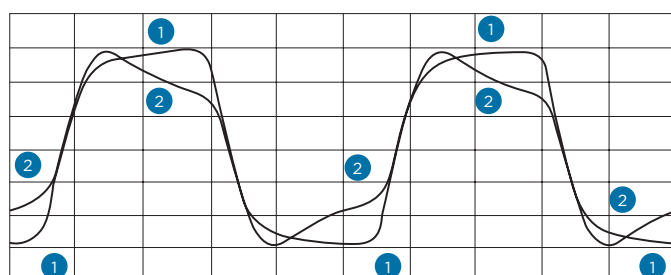
Extract from IEC 60 947-1/EN 60 947, Table 4

The torque according to IEC, EN

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

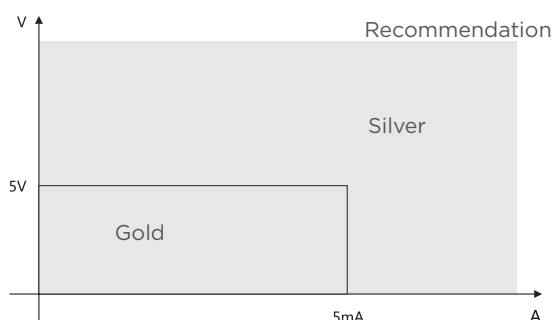
LOW CURRENTS AND VOLTAGES

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 artificially aged contact representing a twenty year life is compared with a new contact.



- 1 New contact
- 2 After ageing

Changes to the transmitted signal after artificial ageing



Left is a table derived from actual experiences

Selection guide

TECHNICAL INFORMATION OF INSERTS

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

Selection guide

TECHNICAL INFORMATION OF INSERTS

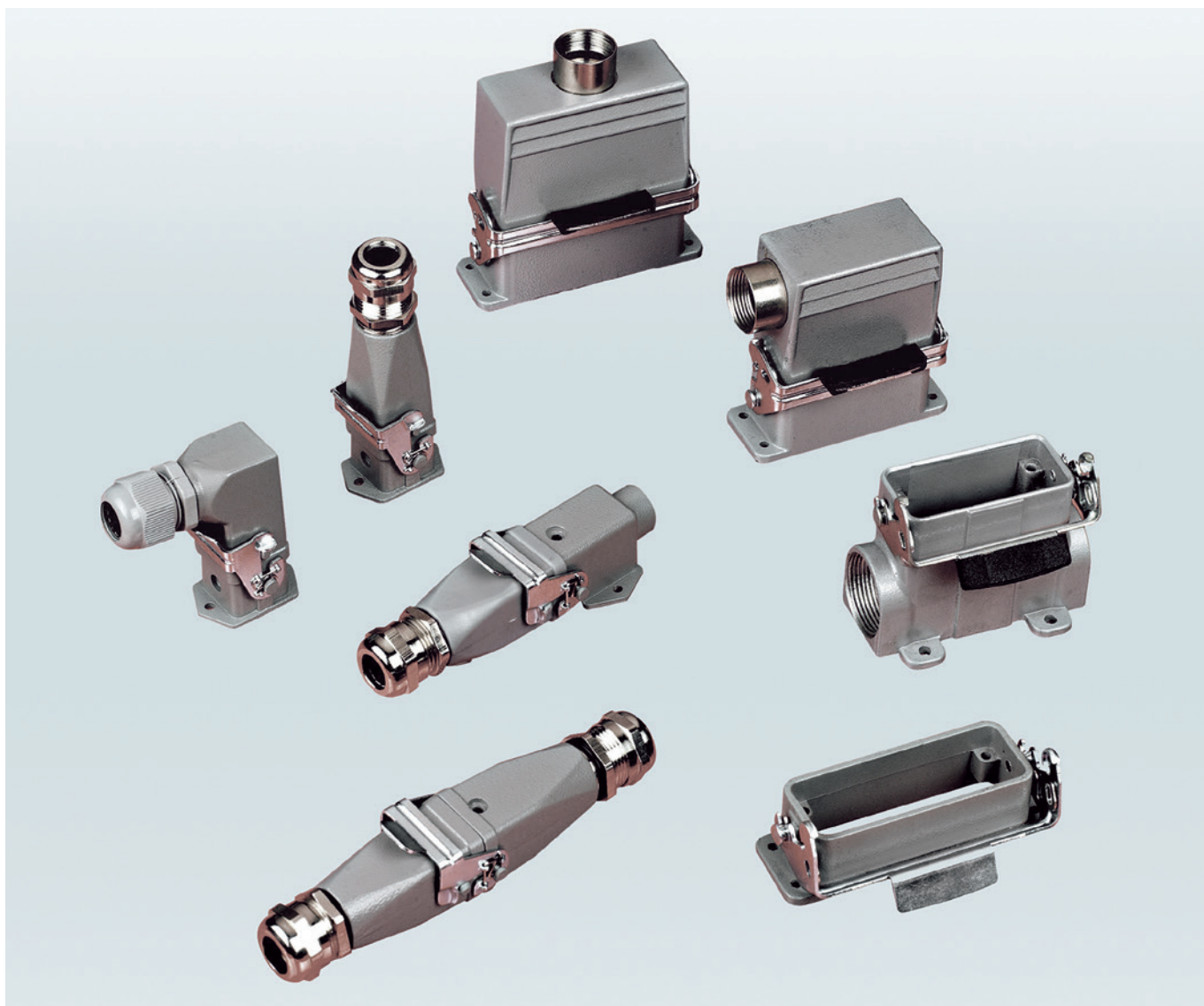
Insert	Type	Poles	Current	Voltage	Terminal	Contacts	Shells
HEEE	HEEE-020	20+PE	16A	400V	crimp	CEM/F(16A) DEM/F(16A)	H6B
	HEEE-032	32+PE	16A	400V			H10B
	HEEE-040	40+PE	16A	500V			H16B
	HEEE-048	48+PE	16A	400V			H16B
	HEEE-064	64+PE	16A	500V			H24B
	HEEE-072	72+PE	16A	400V			H24B
	HEEE-080	80+PE	16A	500V			H32B
	HEEE-096	96+PE	16A	400V			H32B
	HEEE-128	128+PE	16A	500V			H48B
	HEEE-144	144+PE	16A	400V			H48B
HVE	HVE-003	3+PE+2	16A	830V	screw crimp spring	CEM/F(16A) DEM/F(16A)	H10B
	HVE-006	6+PE+2	16A	830V			H16B
	HVE-010	10+PE+2	16A	830V			H24B
HSB	HSB-006	6+PE	35A	400/690V	screw	-	H16B
	HSB-012	12+PE	35A	400/690V	screw	-	H32B
HQ	HQ-005	5+PE	16A	400V	crimp	CEM/F(16A) DEM/F(16A)	H3A
	HQ-007	7+PE	10A	400V		CDM/F(10A) DDM/F(10A)	H3A
	HQ-008	8+PE	16A	500V		CEM/F(16A) DEM/F(16A)	H8A
	HQ-012	12+PE	10A	400V		CDM/F(10A) DDM/F(10A)	H3A
	HQ-017	17+PE	10A	250V			H8A
	HQ4/2	4+PE+2	40A+10A	600V+250V		CDM/F(10A) DDM/F(10A) CMM/F(40A) DMM/F(40A)	H8A
HEAV	HEAV-006	6+PE	16A	500V	screw spring	-	H6B
	HEAV-010	10+PE	16A	500V		-	H10B
	HEAV-016	16+PE	16A	500V		-	H16B
	HEAV-024	24+PE	16A	500V		-	H24B
HMN	HMN-001	1	200A	1000V	crimp	CHM/F(200A)	-
	HMN-D2	2	100A	1000V	crimp	CNM/F(100A)	-
	HMN-002	2	70A	1000V	crimp	CSM/F(70A)	-
	HMN-003	3	40A	690V	crimp	CMM/F(40A) DMM/F(40A)	-
	HMN-004	4	40A	830V	crimp	CMM/F(40A) DMM/F(40A)	-
	HMN-004SC	4	-	-	-	-	-
	HMN-005	5	16A	400V	spring	-	-
	HMN-006	6	16A	500V	crimp	CEM/F(16A) DEM/F(16A)	-
	HMN-006P	6	16A	830V	crimp		-

Selection guide

TECHNICAL INFORMATION OF INSERTS

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

HA Series



1. Specifications

DIN VDE 0110 Concerning clearance and creepage distances

DIN VDE 0627 Connectors and plug devices

2. Standards

DIN EN 60664-1

DIN EN 61 984

3. Approvals



HD technical characteristics

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

INSERTS

Working current	10A max
(See current carrying capacity)	
Working voltage	(8D is 50V)
.....	250V, Insulation group C
Test voltage urms	4KV(8D is 0.8KV)
Pollution degree	3
Pollution degree 2 also 10A; 250V/400V	
Insulation resistance	$\geq 10^{10}\Omega$
Material	Polycarbonate or Polybutylece
Temperature range	-40°C... +100°C/125°C
Flammability acc. to UL94	V0
Working voltage acc. to UL/CSA.....	600V
Mechanical working life-mating cycles.....	≥ 500

CONTACTS

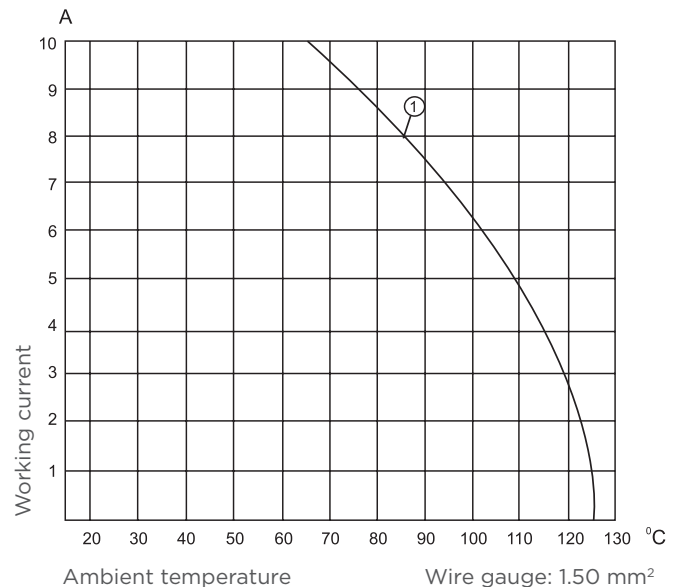
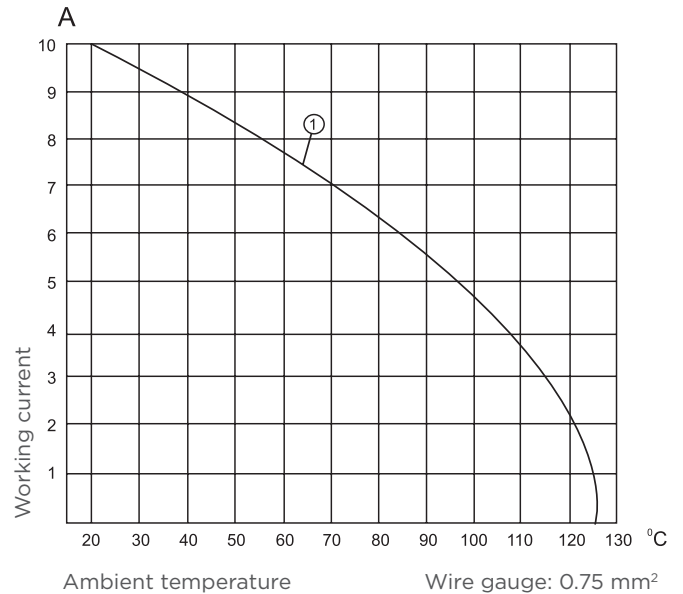
Material	Copper alloy
Surface	Hard silver-plated
.....	Hard gold-plated
Contact resistance	$\leq 3m\Omega$
Terminal	Crimp terminal
.....	Rolled terminal
- mm ²	0.15-2.5mm ²
- AWG	26-14

HOODS, HOUSINGS

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

CURRENT CARRYING CAPACITY

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



1 HD-007

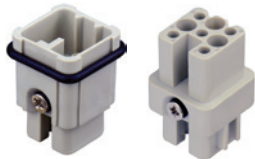
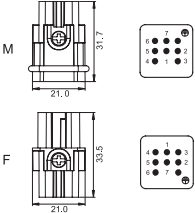
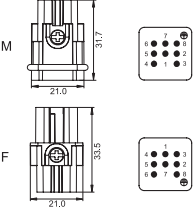
HD-007/008 inserts

INSERTS FOR H3A HOOD/HOUSING

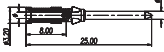
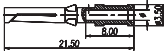
250V/50V 10A

7+ (⚡)

8

Dimensions (mm)	Contact arrangement view from termination side	Part Number		Type
		Male insert	Female insert	
250V/10A 		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 Material: copper alloy Contact resistance: $\leq 3\text{m}\Omega$ Terminal: crimp connection CDM/Male 	10A Male crimp contacts 	Wire gauge		Strip-ping length	Crimp contacts, silver-plated		Crimp contacts, gold-plated	
		mm ²	AWG		Type	Part Number	Type	Part Number
CDF/Female 	10A Female crimp contacts 	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
		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

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	$\geq 10^{10}\Omega$
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

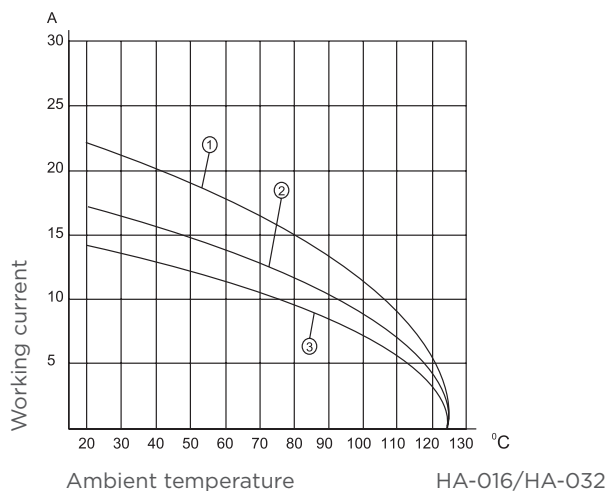
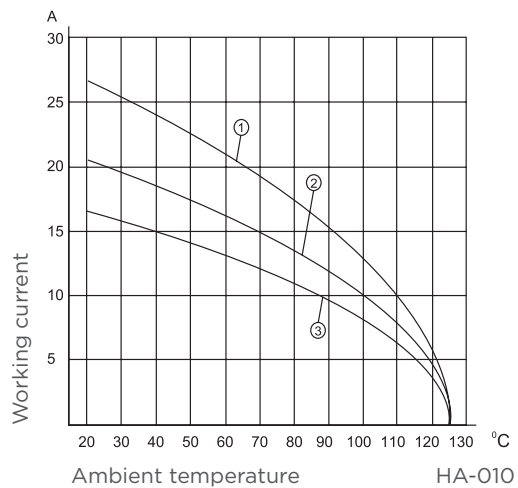
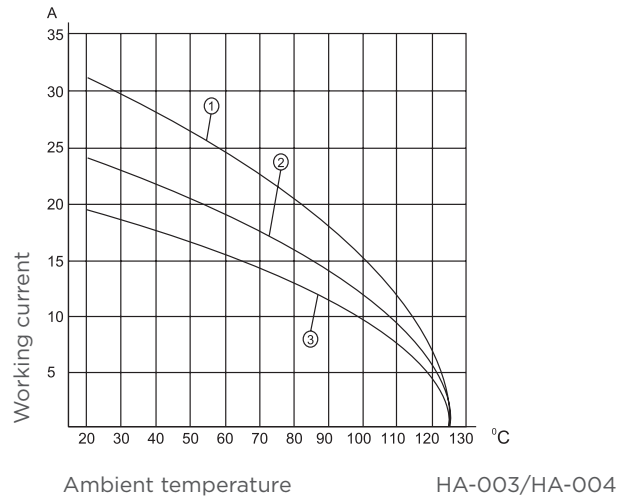
Material	Copper alloy
Surface	Hard silver-plated
.....	Hard gold-xplated
Contact resistance	$\leq 1m\Omega$
Terminal	Screw terminal
.....	Crimp terminal
.....	Spring terminal
- mm ²	0.5-2.5mm ² /0.14-4.0mm ² /0.5-2.5mm ²
- AWG	20-14/26-14/20-14
- Tightening/test torque.....	0.5Nm: HA-010, HA-016, HA-032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



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

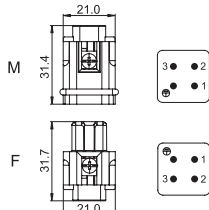
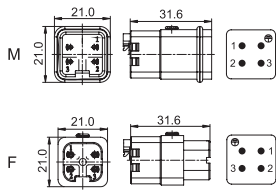
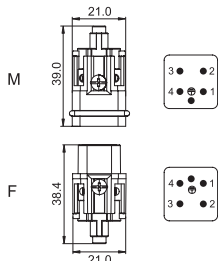
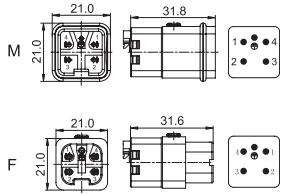
HA-003/004 inserts

INSERTS FOR H3A HOOD/HOUSING

250V/400V 10A

3+⌀

4+⌀

Dimensions (mm)	Contact arrangement view from termination side	Part Number		Type
		Male insert	Female insert	
Screw terminal				
250V/10A 		T2010032101-000		HA-003-M
			T2010032201-000	HA-003-F
Spring terminal				
400V/10A 		T2010033101-000		HA-003-MS
			T2010033201-000	HA-003-FS
Screw terminal				
250V/10A 		T2010042101-000		HA-004-M
			T2010042201-000	HA-004-F
Spring terminal				
400V/10A 		T2010043101-000		HA-004-MS
			T2010043201-000	HA-004-FS

HQ technical characteristics

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

CURRENT CARRYING CAPACITY

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

INSERTS

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

CONTACTS

Material	Copper alloy
Surface	Hard silver-plated
.....	Hard gold-plated
Contact resistance	$\leq 1\text{m}\Omega$
Terminal	Crimp terminal
- mm ²	0.14-4.0/0.14-2.5/1.5-6mm ²
- AWG	26-12/26-14/16-10
- Tightening/test torque	0.25Nm

HOODS, HOUSINGS

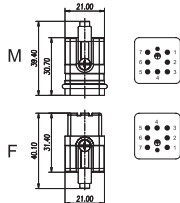
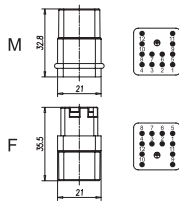
Material	Die cast aluminium
Surface	Powder-coated (RAL 7037)
Locking element.....	Stainless steel, steel-zinc plated
Temperature range	-40°C... +125°C
Degree of protection acc. to DIN40 050	IP65

HQ-007/012 inserts

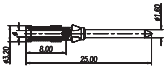
INSERTS FOR H3A HOOD/HOUSING

400V MAX. 10A

7+ 
12+ 

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

10A Contact

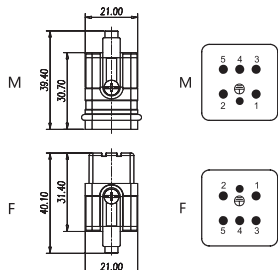
Tech data Material: copper alloy Contact resistance: $\leq 3\text{m}\Omega$ Terminal: crimp connection CDM/Male 	10A Male crimp contacts 	Wire gauge		Strip-ping length	Crimp contacts, silver-plated		Crimp contacts, gold-plated	
		mm ²	AWG		Type	Part Number	Type	Part Number
CDF/Female 	10A Female crimp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

HQ-005 inserts

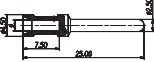
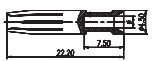
INSERTS FOR H3A HOOD/HOUSING

400V MAX. 16A

5+ (⊕)

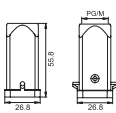
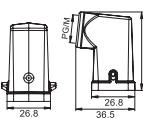
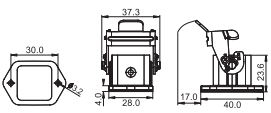
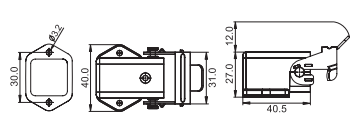
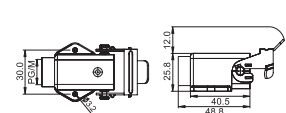
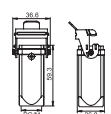
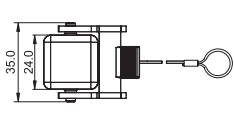
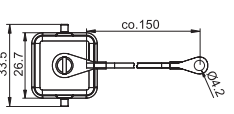
Dimensions (mm)	Contact arrangement view from termination side	Part Number		Type
		Male insert	Female insert	
Crimp terminal (Order crimp contacts separately)				
		T2080052101-000		HQ-005-M
			T2080052201-000	HQ-005-F

16A Contact

Tech data Material: copper alloy Contact resistance: $\leq 1\text{m}\Omega$ Terminal: crimp connection CEM/Male	16A Male crimp contacts	Wire gauge		Strip- ping length	Crimp contacts, silver-plated		Crimp contacts, gold-plated	
		mm ²	AWG		Type	Part Number	Type	Part Number
		0.14-0.37	26-22	7.5	CEM-0.3	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

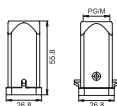
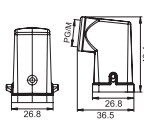
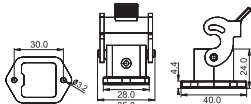
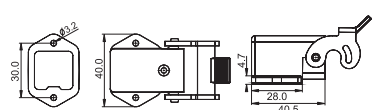
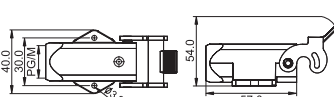
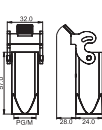
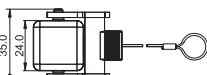
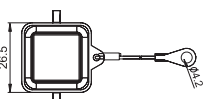
H3A metal hoods/housings

POWDER-COATED, RAL 7037

Dimensions (mm)		Metr.	PG	Type	Part Number
Top entry					
		M20	PG11	H3A-MTG-PG11 H3A-MTG-M20	T1329030111-000 T1329030120-000
Side entry					
		M20	PG11	H3A-MTS-PG11 H3A-MTS-M20	T1319030111-000 T1319030120-000
Bulkhead mounting: Bottom entry					
				H3A-MAG	T1509030000-000
Bulkhead mounting: Side entry					
				H3A-MAGS	T1549030000-000
Surface mounting: Side entry					
		M16 M20	PG11	H3A-MAGSV-PG11 H3A-MAGSV-M16 H3A-MAGSV-M20	T1619030111-000 T1619030116-000 T1619030120-000
Cable-to-cable hood:					
		M20	PG11	H3A-MTGVB-PG11 H3A-MTGVB-M20	T1739030111-000 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 H3A-TG-M20	T1329031111-000 T1329031120-000
Side entry					
		M20	PG11	H3A-TS-PG11 H3A-TS-M20	T1319031111-000 T1319031120-000
Bulkhead mounting: Bottom entry					
				H3A-AG	T1509031100-000
Bulkhead mounting: Side entry					
				H3A-AGS	T1509031111-000
Surface mounting: Side entry					
		M16 M20	PG11	H3A-AGSV-PG11 H3A-AGSV-M16 H3A-AGSV-M20	T1619031111-000 T1619031116-000 T1619031120-000
Cable-to-cable hood:					
		M20	PG11	H3A-TGVB-PG11 H3A-TGVB-M20	T1739031111-000 T1739031120-000
Protection covers for hoods (thermoplastic)					
	Note: For mounted male insert and hood			H3A-KDTP	T1010031100-000
Protection covers for hoods					
 White Grey	Note: For mounted female insert and hood			H3A-KDBP (White) H3A-KDBPG (Grey)	T1010032100-000 T1010032300-000
Covers without sealing type					
				H3A-KDBP (White) H3A-KDBP (Grey)	T1010033200-000 T1010032200-000

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

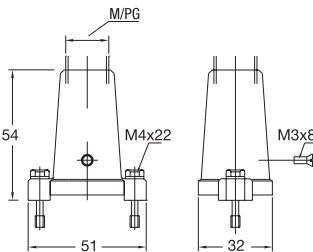
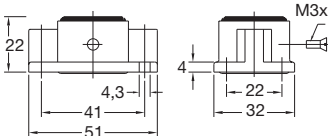
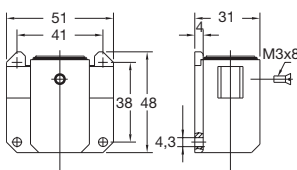
HIP: Pressure-tight, silver-grey

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				
		M16	11	HIP HIP.3/4.ST0.1.11.G HIP.3/4.ST0.1.M16.G 1-1102600-5 0-1106408-1
		M16 M20	11	HIP-K HIP-K.3/4.ST0.1.11.G HIP-K.3/4.ST0.1.M16.G HIP-K.3/4.ST0.1.M20.G 2-1102600-5 0-1106408-2 0-1106408-3
	M16 M20	11	EMV-K EMV-K.3/4.ST0.1.11.G EMV-K.3/4.ST0.1.M16.G EMV-K.3/4.ST0.1.M20.G 4-1102700-5 0-1106402-2 0-1106402-3	
Surface mounted housing: Bottom entry				
	 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)				
	 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

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

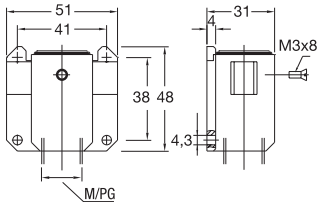
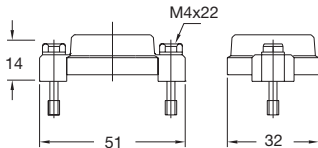
HIP: Pressure-tight, silver-grey

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

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

Screw lock on hood

IP 68 / IP 69 K

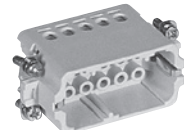
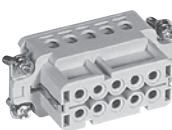
Description	Metr.	PG	Type	Part Number
Surface mounted housing: Side entry				
		M16	HIP HIP.3/4.SG.1.11.G	1-1102601-5
		M20	HIP.3/4.SG.1.M16.G	0-1106407-1
			HIP.3/4.SG.1.M20.G	0-1106401-4
	M16	PG11	HIP-K HIP-K.3/4.SG.1.11.G	2-1102601-5
			HIP-K.3/4.SG.1.M16.G	0-1106407-2
	M16	PG11	EMV-K EMV-K.3/4.SG.1.11.G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

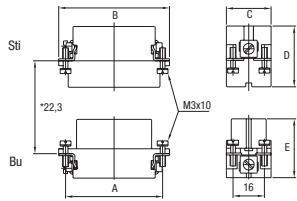
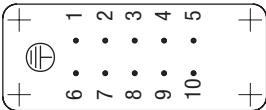
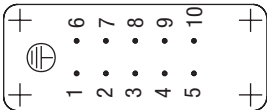
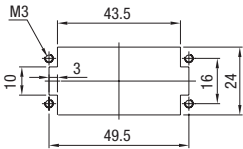
250V 16A

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

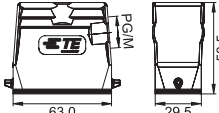
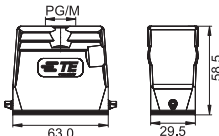
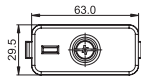
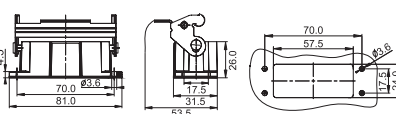
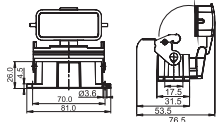
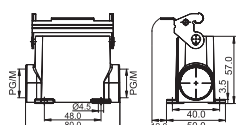
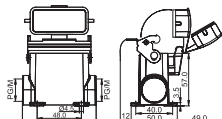
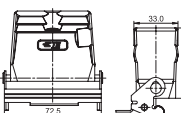
Dimensions	A	B	C	D	E
mm	49.5	57	23	31	28

Suitable crimp contacts and crimping tools: see page 48

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

H10A metal hoods/housings

POWDER-COATED, RAL 7037

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

HA.16 contact inserts

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

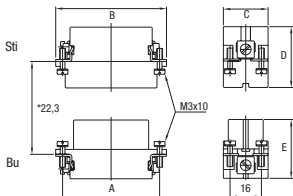
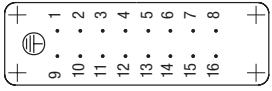
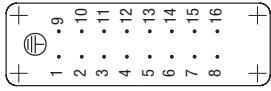
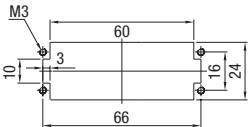
250V 16A

16+ ⚡

Description		Type	Part Number	
Male insert	Female insert		Male insert	Female insert
Screw terminal				
		HA-016-M	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

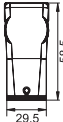
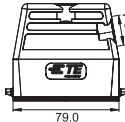
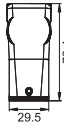
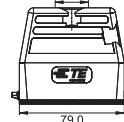
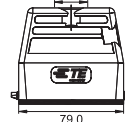
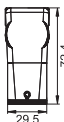
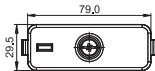
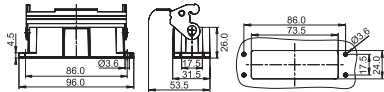
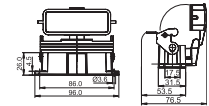
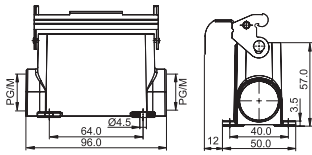
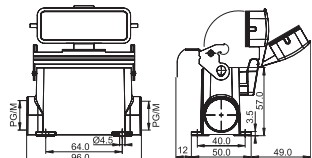
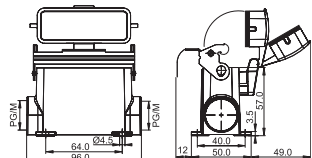
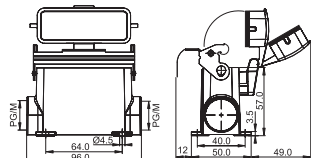
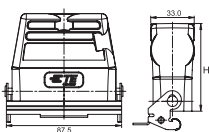
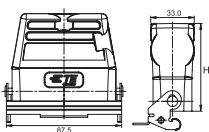
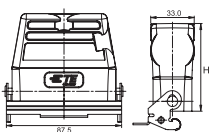
Dimensions	A	B	C	D	E
mm	66	73	23	31	28

Suitable crimp contacts and crimping tools: see page 48

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

H16A metal hoods/housings

POWDER-COATED, RAL 7037

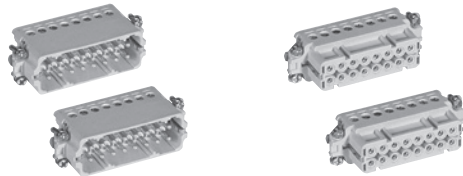
Dimensions (mm)			Metr.	PG	Type	Part Number						
Hood: Side entry												
	Low construction		Low construction M20	PG16 PG21	H16A-TS-PG16 H16A-TS-PG21 H16A-TS-M20 H16A-TS-M25	T1319160116-000 T1319160121-000 T1319160120-000 T1319160125-000						
	 											
	High construction		High construction M25	PG21	H16A-TSH-PG21 H16A-TSH-M25	T1339160121-000 T1339160125-000						
	 											
Hood: Top entry												
	Low construction		Low construction M20	PG16 PG21	H16A-TG-PG16 H16A-TG-PG21 H16A-TG-M20 H16A-TG-M25	T1329160116-000 T1329160121-000 T1329160120-000 T1329160125-000						
	 											
	High construction		High construction M25	PG21	H16A-TGH-PG21 H16A-TGH-M25	T1349160121-000 T1349160125-000						
	 											
Protection covers for hoods												
				with plastic rope	H16A-KDT	T1019161101-000 T1019161201-000						
Bulkhead mounted												
					H16A-AGS H16A-ADS H16A-ADMS	T1509161000-000 T1519162000-000 T1519161000-000						
	With protection cover 											
Surface mounted: Side entry												
			1 Side entry M20 M25	PG16 PG21	H16A-SGRS-PG16 H16A-SGRS-PG21 H16A-SGRS-M20 H16A-SGRS-M25 H16A-SGRS-2PG16 H16A-SGRS-2PG21 H16A-SGRS-2M20 H16A-SGRS-2M25	T1619161116-000 T1619161121-000 T1619161120-000 T1619161125-000 T1619161216-000 T1619161221-000 T1619161220-000 T1619161225-000						
												
				2 Side entry M20 M25	PG16 PG21	H16A-SDRMS-PG16 H16A-SDRMS-PG21 H16A-SDRMS-M20 H16A-SDRMS-M25 H16A-SDRMS-2PG16 H16A-SDRMS-2PG21 H16A-SDRMS-2M20 H16A-SDRMS-2M25	T1629161116-000 T1629161121-000 T1629161120-000 T1629161125-000 T1629161216-000 T1629161221-000 T1629161220-000 T1629161225-000					
												
Cable-to-cable hood												
				Low construction M20 M25	PG16	H16A-TBFS-PG16 H16A-TBFS-M20 H16A-TBFS-M25	T1739161116-000 T1739161120-000 T1739161125-000					
												
	<table border="1"><thead><tr><th>Construction</th><th>H</th></tr></thead><tbody><tr><td>Low</td><td>66.6</td></tr><tr><td>High</td><td>80.6</td></tr></tbody></table>		Construction	H	Low	66.6	High	80.6	High construction M25	PG21	H16A-TBFHS-PG21 H16A-TBFHS-M25	T1779161121-000 T1779161125-000
	Construction	H										
Low	66.6											
High	80.6											
												

HA.32 contact inserts

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

250V 16A

(2x16) 32+ ⚡

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

POWDER-COATED, RAL 7037

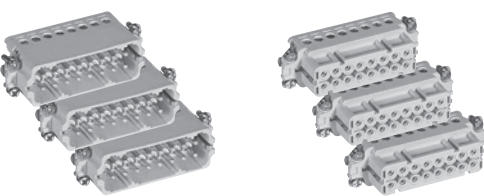
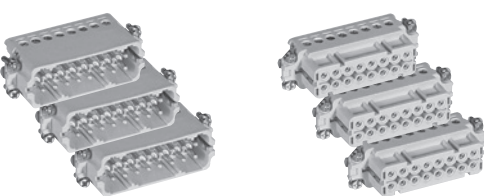
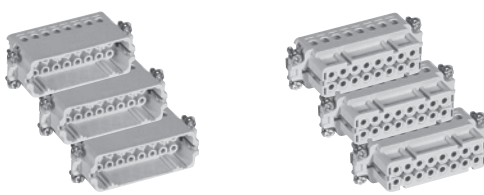
42

HA.48 contact inserts

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

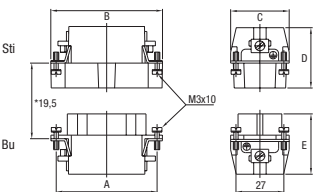
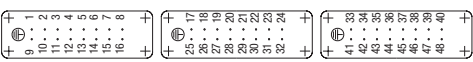
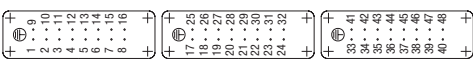
250V 16A

(3x16) 48+ Ⓢ

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

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

Suitable crimp contacts and crimping tools: see page 48

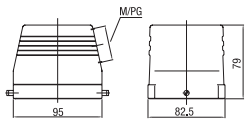
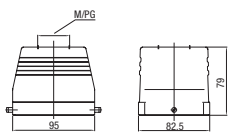
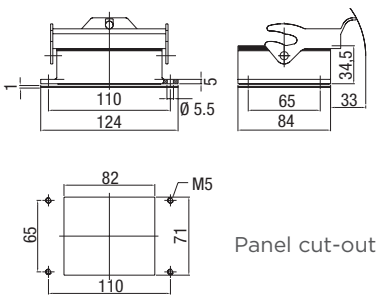
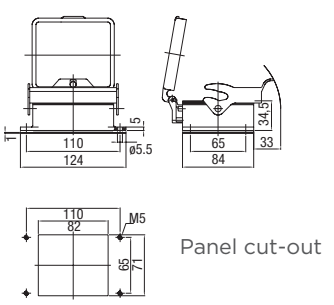
Dimensions (mm)	Contact arrangement	
	Male insert	Female insert
		

HA.48 housings

POWDER-COATED, SILVER-GREY

Side clip at housing bottom

IP 65

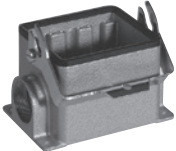
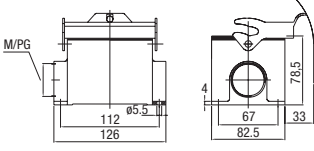
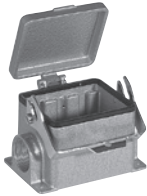
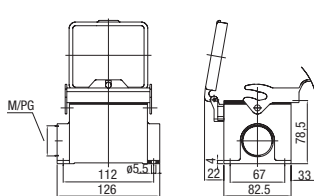
Description	Metr.	PG	Type	Part Number
Hood: Side entry, Standard construction				
 	M32	29	HA.48.STS-GR.1.29.G HA.48.STS-GR.1.M32.G	1-1102172-7 O-1102877-1
Hood: Top entry, Standard construction				
 	M32	29	HA.48.STO-GR.1.29.G HA.48.STO-GR.1.M32.G	1-1102175-7 O-1102877-2
Surface mounted housing: Bottom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

HA.48 housings

POWDER-COATED, SILVER-GREY

Side clip at housing bottom

IP 65

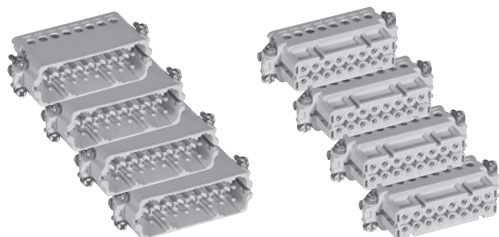
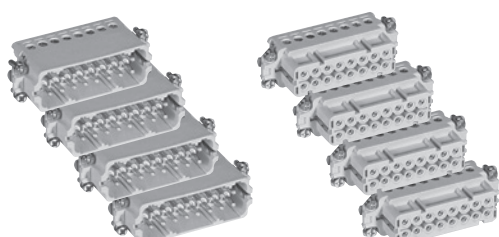
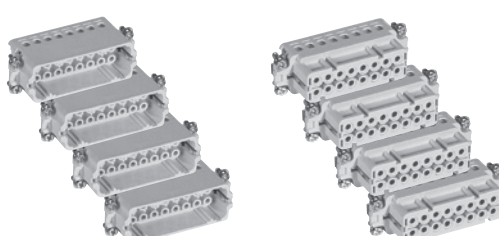
Description	Metr.	PG	Type	Part Number
Surface mounted housing: Side entry, Standard construction				
 		29 2x29	HA.48.SG-LB.1.29.Z HA.48.SG-LB.2.29.Z	1-1102179-2 1-1102181-2
Surface mounted housing: Side entry, Standard construction				
 	M32 2xM32	29 2x29	HA.48.SGD-LB.1.29.Z HA.48.SGD-LB.2.29.Z HA.48.SGD-LB.1.M32.G HA.48.SGD-LB.2.M32.G	1-1102183-2 1-1102185-2 0-1102879-1 0-1102879-2

HA.64 contact inserts

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

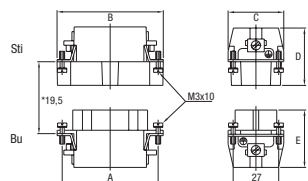
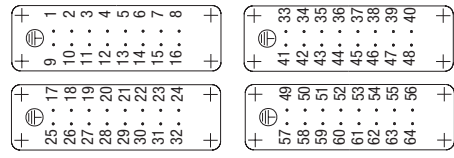
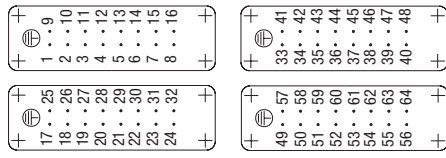
250V 16A

(4x16) 64+ Ⓢ

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

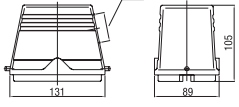
Dimensions (mm)	Contact arrangement	
	Male insert	Female insert
		

HA.64 housings

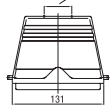
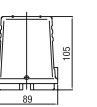
POWDER-COATED, SILVER-GREY

Side clip at housing bottom

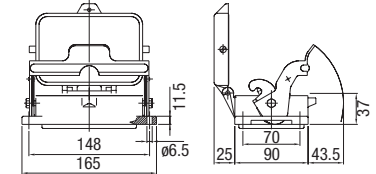
IP 65

Description	Metr.	PG	Type	Part Number
Hood: Side entry, Standard construction				
				
		29	HA.64.STS-GR.1.29.G	1-1102002-7
		36	HA.64.STS-GR.1.36.G	1-1102005-7
		42	HA.64.STS-GR.1.42.G	1-1102008-7
		M50	HA.64.STS-GR.1.M50.G	0-1106480-2

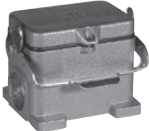
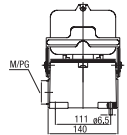
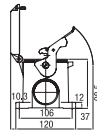
Hood: Top entry, Standard construction

	 	M50	29	HA.64.STO-GR.1.29.G	1-1102027-7
			36	HA.64.STO-GR.1.36.G	1-1102030-7
			42	HA.64.STO-GR.1.42.G	1-1102033-7
				HA.64.STO-GR.1.M50.G	0-1106480-1

Surface mounted housing: Bottom entry, Standard construction

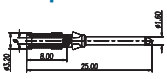
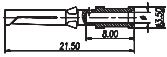
	 Panel cut-out			HA.64.AGD-LB	1-1102009-2
--	---	--	--	--------------	-------------

Surface mounted housing: Side entry, Standard construction

	 	2xM40	29	HA.64.SGD-LB.1.29.Z	1-1102011-2
			2x29	HA.64.SGD-LB.2.29.Z	1-1102013-2
			36	HA.64.SGD-LB.1.36.Z	1-1102015-2
			2x36	HA.64.SGD-LB.2.36.Z	1-1102017-2
				HA.64.SGD-LB.2.M40.Z	0-1106479-1

Crimp contacts HN.D series

10A Contact

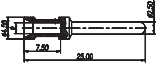
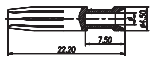
Tech data Material: copper alloy Contact resistance: $\leq 3\text{m}\Omega$ Terminal: crimp connection CDM/Male	10A Male crimp contacts 	Wire gauge		Strip- ping length mm	Crimp contacts, silver-plated		Crimp contacts, gold-plated	
		mm ²	AWG		Type	Part Number	Type	Part Number
	10A Female crimp contacts 	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 		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 Wire range: 0.5-4.0mm ² Suitable for CDM/CDF and CEM/CEF contacts		CRIMPBOX-0.5/4	T3100000001-000
Crimp tool Wire range: 0.14-4.0mm ² Suitable for CDM/CDF and CEM/CEF contacts with locator and die		RSZ.HE-HN.D-HVT	1-1105851-8
Removal tools Used for CDM/CDF contact series		REMOV-HD	T3100000003-000
M3 screw driver Used for HA/HE inserts		SCREWD-M3	T3100000009-000

Crimp contacts HE/HA series

16A Contact

Tech data Material: copper alloy Contact resistance: $\leq 1\text{m}\Omega$ Terminal: crimp connection CEM/Male	16A Male crimp contacts 	Wire gauge		Strip- ping length	Crimp contacts, silver-plated		Crimp contacts, gold-plated	
		mm ²	AWG	mm	Type	Part Number	Type	Part Number
		0.14-0.37	26-22	7.5	CEM-0.3	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

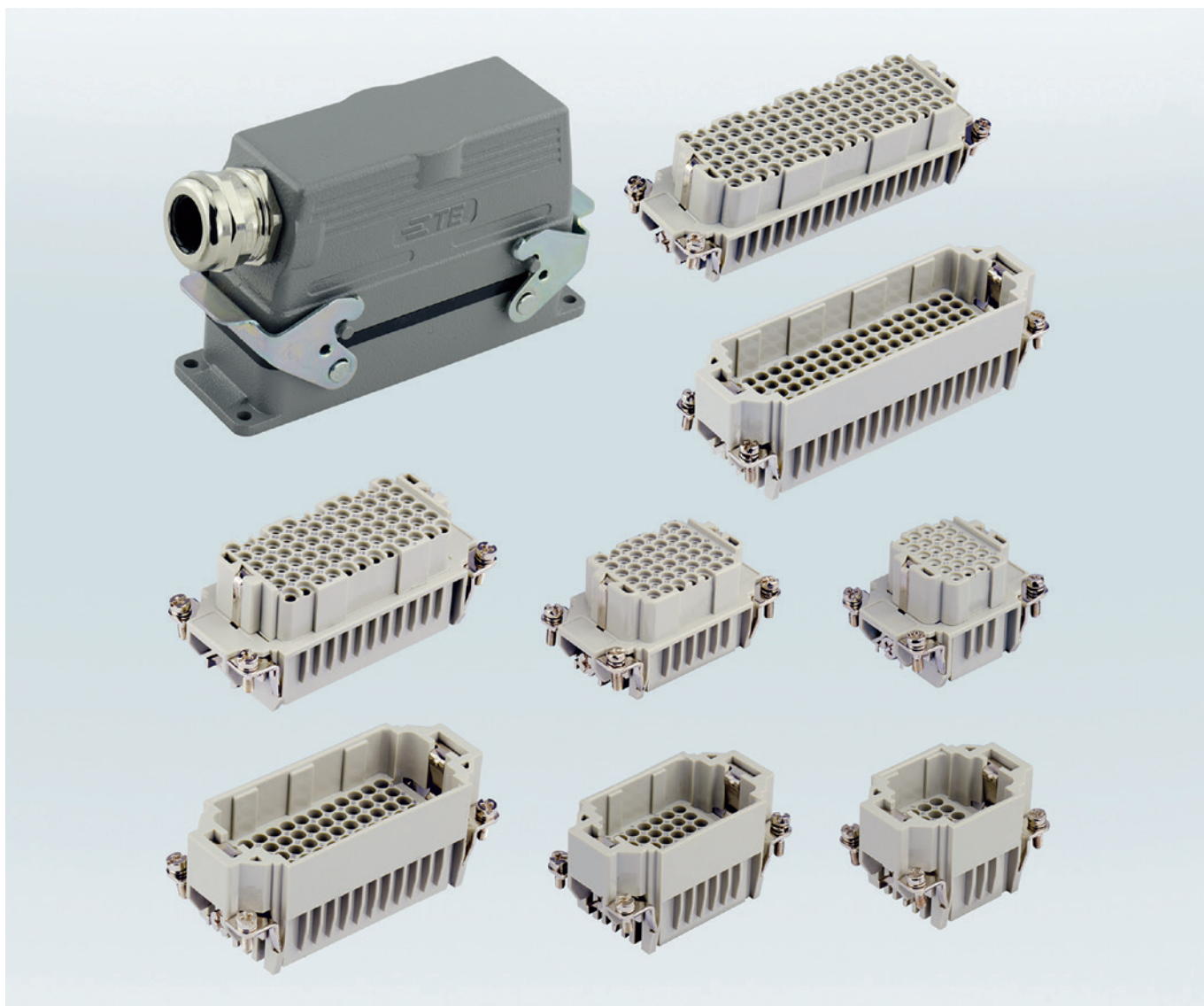
Crimping tools HE/HA series

Description		Type	Part Number
Crimp tool Wire range: 0.5-4.0mm ² Suitable for CDM/CDF and CEM/CEF contacts		CRIMPBOX-0.5/4	T3100000001-000
Crimp tool Wire range: 0.14-4.0mm ² Suitable for CDM/CDF and CEM/CEF contacts with locator and die		RSZ.HE-HN.D-HVT	1-1105851-8
Removal tools Used for CEM/CEF contact series		REMOV-HEE	T3100000002-000
M3 screw driver Used for HA/HE inserts		SCREWD-M3	T3100000009-000

Notes

[illegible]

HD, HDD Series



1. Specifications

DIN VDE 0110 Concerning clearance and creepage distances

DIN VDE 0627 Connectors and plug devices

2. Standards

DIN EN 175 301-801

DIN EN 61984

3. Approvals



HD technical characteristics

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

INSERTS

Working current	10A max
(See current carrying capacity)	
Working voltage	(8D is 50V)
.....	250V, Insulation group C
Test voltage urms	4KV(8D is 0.8KV)
Pollution degree	2
Insulation resistance	$\geq 10^{10} \Omega$
Material	Polycarbonate or Polybutylece
Temperature range	-40°C... +100°C/125°C
Flammability acc. to UL94	V0
Working voltage acc. to UL/CSA.....	600V
Mechanical working life-mating cycles.....	≥ 500

CONTACTS

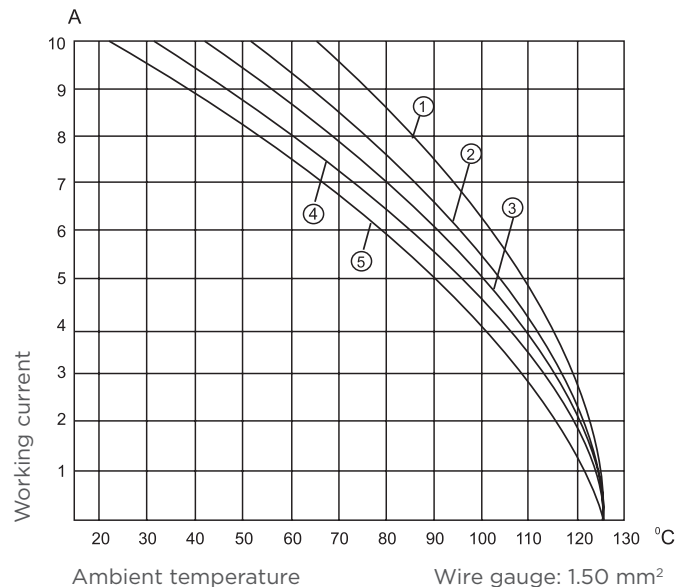
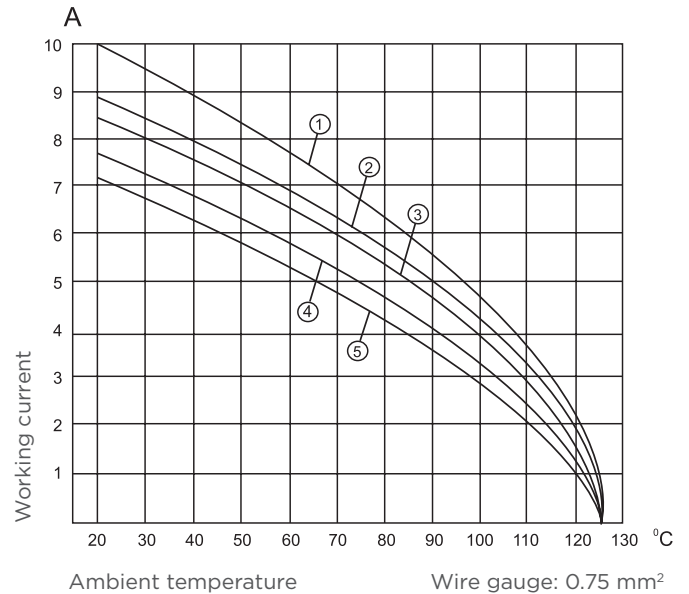
Material	Copper alloy
Surface	Hard silver-plated
.....	Hard gold-plated
Contact resistance	$\leq 3m\Omega$
Terminal	Crimp terminal
.....	Rolled terminal
- mm ²	0.15-2.5mm ²
- AWG	26-14

HOODS/HOUSINGS

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

CURRENT CARRYING CAPACITY

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



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

HDD technical characteristics

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

INSERTS

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

CONTACTS

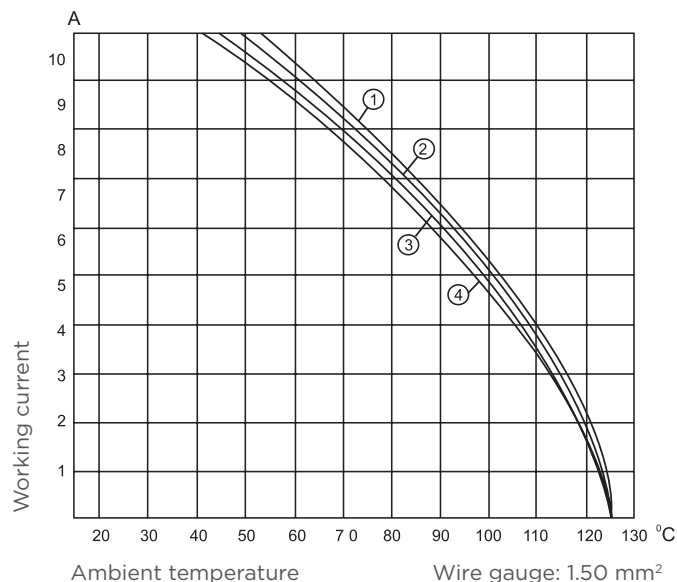
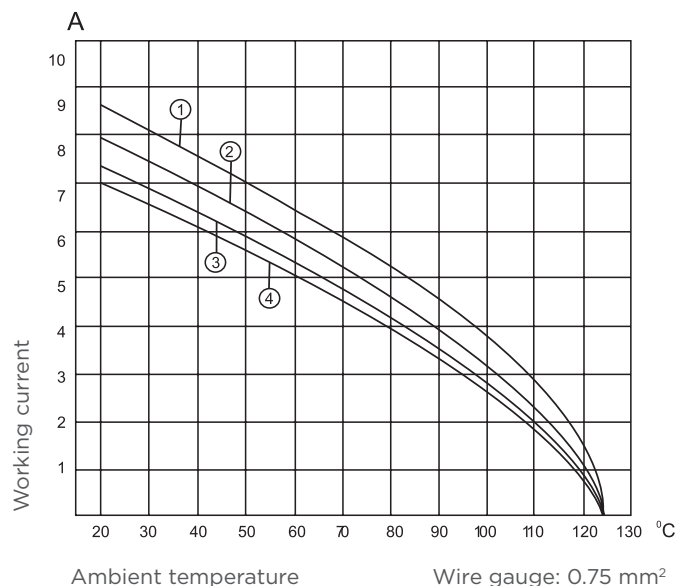
Material	Copper alloy
Surface	Hard silver-plated
.....	Hard gold-plated
Contact resistance	$\leq 3m\Omega$
Terminal	Crimp terminal
.....	Rolled terminal
- mm ²	0.14-2.5mm ²
- AWG	26-14

HOODS/HOUSINGS

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

CURRENT CARRYING CAPACITY

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



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

HD, HDD series

MODIFIED CONTACT ARRANGEMENT

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

	Contact arrangement view from termination side			
	Working contact	Without contact	Male insert	Female insert
Series HDD 380V-Insulation group C	12 +	21 +	34 +	52 +
500V-Insulation group C	5 +	11 +	17 +	26 +
Series HD 500V ~ Pollution degree 3	3 +	7 +	11 +	20 +
				32 +

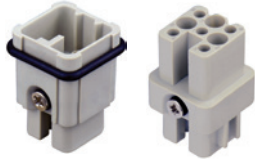
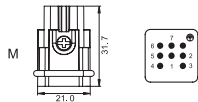
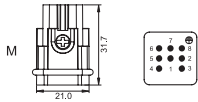
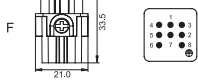
HD-007/008 inserts

INSERTS FOR H3A HOOD/HOUSING

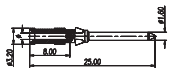
250V/50V 10A

7+ (⊕)

8

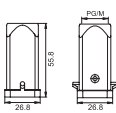
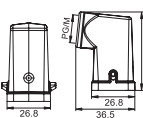
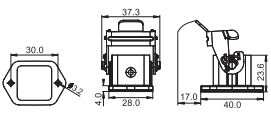
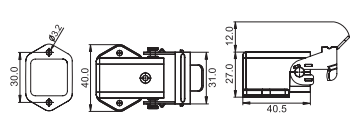
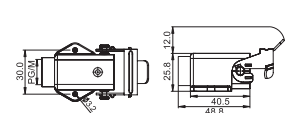
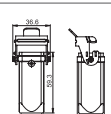
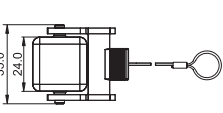
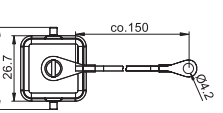
Dimensions (mm)	Contact arrangement view from termination side	Part Number		Type
		Male insert	Female insert	
250V/10A 	 	T2020072101-000		HD-007-M
			T2020072201-000	HD-007-F
50V/10A 	 	T2020082101-000		HD-008-M
			T2020082201-000	HD-008-F

10A Contact

Tech data Material: copper alloy Contact resistance: $\leq 3\text{m}\Omega$ Terminal: crimp connection CDM/Male 	10A Male crimp contacts 	Wire gauge		Strip- ping length	Crimp contacts, silver-plated		Crimp contacts, gold-plated	
		mm ²	AWG		Type	Part Number	Type	Part Number
		0.14-0.37	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
		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
CDF/Female 	10A Female crimp contacts 	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

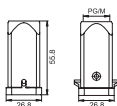
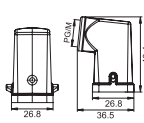
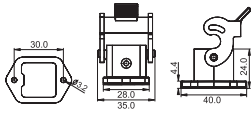
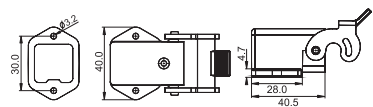
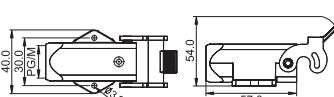
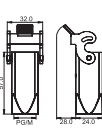
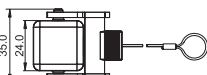
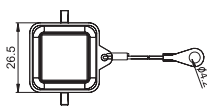
H3A metal hoods/housings

POWDER-COATED, RAL 7037

Dimensions (mm)		Metr.	PG	Type	Part Number
Top entry					
		M20	PG11	H3A-MTG-PG11 H3A-MTG-M20	T1329030111-000 T1329030120-000
Side entry					
		M20	PG11	H3A-MTS-PG11 H3A-MTS-M20	T1319030111-000 T1319030120-000
Bulkhead mounting: Bottom entry					
				H3A-MAG	T1509030000-000
Bulkhead mounting: Side entry					
				H3A-MAGS	T1549030000-000
Surface mounting: Side entry					
		M16 M20	PG11	H3A-MAGSV-PG11 H3A-MAGSV-M16 H3A-MAGSV-M20	T1619030111-000 T1619030116-000 T1619030120-000
Cable-to-cable hood:					
		M20	PG11	H3A-MTGVB-PG11 H3A-MTGVB-M20	T1739030111-000 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 H3A-TG-M20	T1329031111-000 T1329031120-000
Side entry					
		M20	PG11	H3A-TS-PG11 H3A-TS-M20	T1319031111-000 T1319031120-000
Bulkhead mounting: Bottom entry					
				H3A-AG	T1509031100-000
Bulkhead mounting: Side entry					
				H3A-AGS	T1509031111-000
Surface mounting: Side entry					
		M16 M20	PG11	H3A-AGSV-PG11 H3A-AGSV-M16 H3A-AGSV-M20	T1619031111-000 T1619031116-000 T1619031120-000
Cable-to-cable hood:					
		M20	PG11	H3A-TGVB-PG11 H3A-TGVB-M20	T1739031111-000 T1739031120-000
Protection covers for hoods (thermoplastic)					
	Note: For mounted male insert and hood				H3A-KDTP T1010031100-000
Protection covers for hoods					
 White Grey	Note: For mounted female insert and hood				H3A-KDBP (White) H3A-KDBPG (Grey) T1010032100-000 T1010032300-000
Covers without sealing type					
					H3A-KDBP (White) H3A-KDBP (Grey) T1010033200-000 T1010032200-000

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

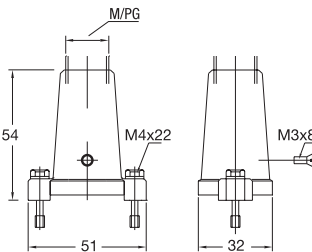
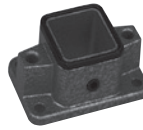
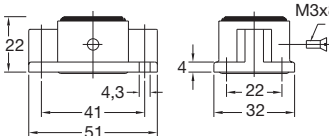
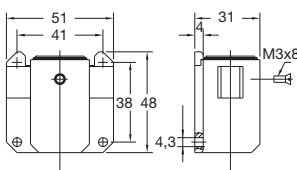
HIP: Pressure-tight, silver-grey

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				
		M16	HIP HIP.3/4.ST0.1.11.G HIP.3/4.ST0.1.M16.G	1-1102600-5 0-1106408-1
		M16 M20	HIP-K HIP-K.3/4.ST0.1.11.G HIP-K.3/4.ST0.1.M16.G HIP-K.3/4.ST0.1.M20.G	2-1102600-5 0-1106408-2 0-1106408-3
		M16 M20	EMV-K EMV-K.3/4.ST0.1.11.G EMV-K.3/4.ST0.1.M16.G EMV-K.3/4.ST0.1.M20.G	4-1102700-5 0-1106402-2 0-1106402-3
Surface mounted housing: Bottom entry				
	 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)				
	 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

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

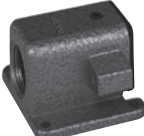
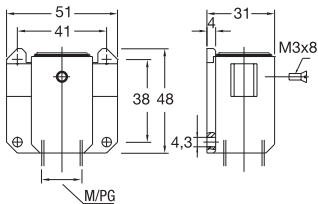
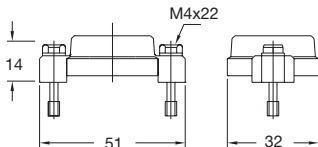
HIP: Pressure-tight, silver-grey

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

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

Screw lock on hood

IP 68 / IP 69 K

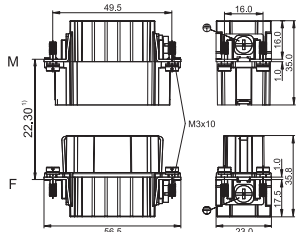
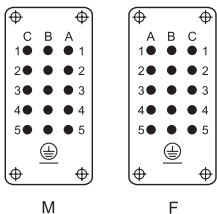
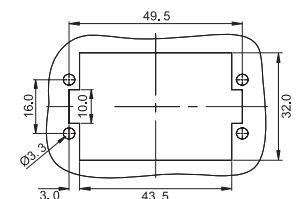
Description	Metr.	PG	Type	Part Number
Surface mounted housing: Side entry				
		M16	HIP HIP.3/4.SG.1.11.G HIP.3/4.SG.1.M16.G HIP.3/4.SG.1.M20.G	1-1102601-5
		M20		0-1106407-1
				0-1106401-4
	M16	PG11	HIP-K HIP-K.3/4.SG.1.11.G HIP-K.3/4.SG.1.M16.G	2-1102601-5
				0-1106407-2
	M16	PG11	EMV-K EMV-K.3/4.SG.1.11.G EMV-K.3/4.SG.1.M16.G EMV-K.3/4.SG.1.M20.G	4-1102701-5
	M20			0-1106401-2
				0-1106401-3
Protective covers for housings				
			HIP/EMV HIP/EMV.3/4.SKB	3-1106200-5
			HIP-K/EMV-K HIP-K/EMV-K.3/4.SKB	4-1106200-5

HD-015 inserts

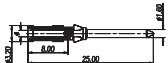
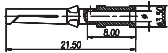
INSERTS FOR H10A HOOD/HOUSING

250V 10A

15+⊕ (machined contacts)

Dimensions (mm)		Type	Part Number	
			Male insert	Female insert
Crimp terminal (order crimp contacts separately)				
		HD-015-M	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

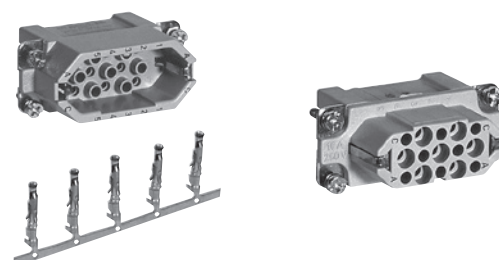
Tech data	10A Male crimp contacts	Wire gauge		Strip-ping length	Crimp contacts, silver-plated		Crimp contacts, gold-plated	
		mm ²	AWG		Type	Part Number	Type	Part Number
Material: copper alloy Contact resistance: ≤3mΩ Terminal: crimp connection CDM/Male 		0.14-0.37	26-22	8.0	CDM-0.14	T2020001002-000	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

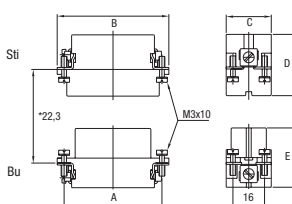
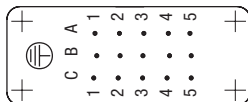
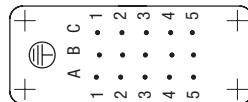
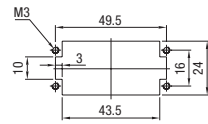
250V 10A

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

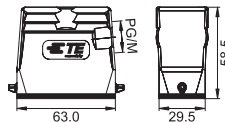
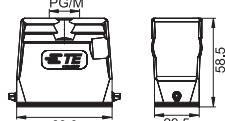
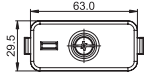
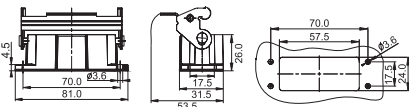
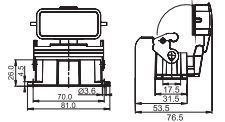
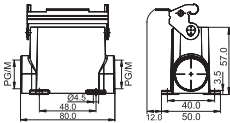
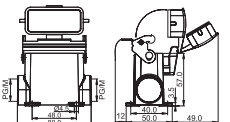
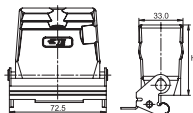
Dimensions	A	B	C	D	E
mm	49.5	57	23	35	35

Suitable crimp contacts and crimping tools: see page 111

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

H10A metal hoods/housings

POWDER-COATED, RAL 7037

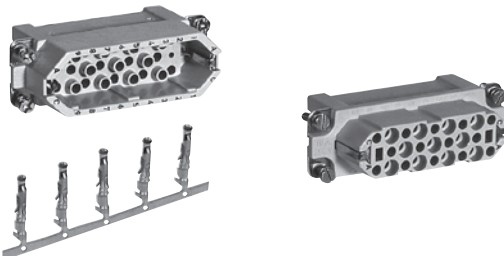
Dimensions (mm)		Metr.	PG	Type	Part Number						
Hood: Side entry											
		M20 M25	PG16 PG21	H10A-TS-PG16 H10A-TS-PG21 H10A-TS-M20 H10A-TS-M25	T1319100116-000 T1319100121-000 T1319100120-000 T1319100125-000						
Hood: Top entry											
		M20 M25	PG16 PG21	H10A-TG-PG16 H10A-TG-PG21 H10A-TG-M20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

HD-025 inserts

INSERTS FOR H16A HOOD/HOUSING

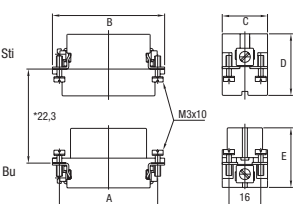
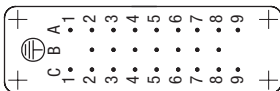
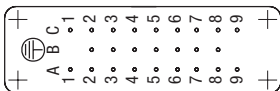
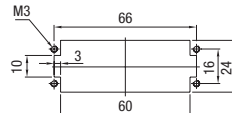
250V 10A

25+  (stamped and formed contacts)

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

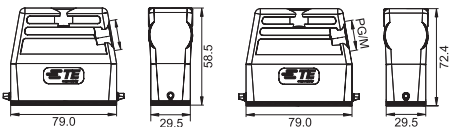
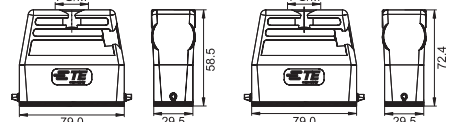
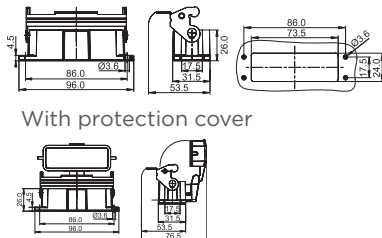
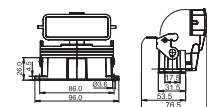
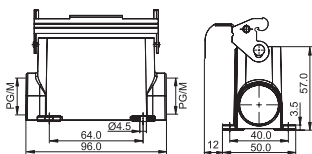
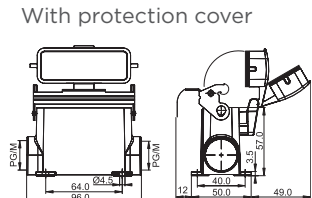
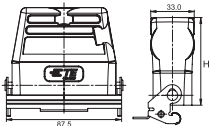
Dimensions	A	B	C	D	E
mm	66	73	23	35	35

Suitable crimp contacts and crimping tools: see page 111

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

H16A metal hoods/housings

POWDER-COATED, RAL 7037

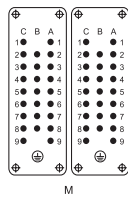
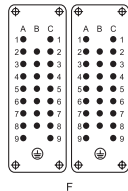
Dimensions (mm)			Metr.	PG	Type	Part Number	
Hood: Side entry							
	Low construction		Low construction	M20 M25	PG16 PG21	H16A-TS-PG16 H16A-TS-PG21 H16A-TS-M20 H16A-TS-M25	T1319160116-000 T1319160121-000 T1319160120-000 T1319160125-000
	High construction				PG21	H16A-TSH-PG21 H16A-TSH-M25	T1339160121-000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

HD-050 inserts

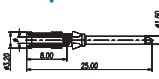
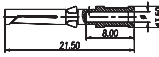
INSERTS FOR H32A HOOD/HOUSING

250V 10A

50 (2x25)+⊕ (Turning contacts)

Dimensions (mm)	Contact arrangement view from termination side	Type	Part Number	
			Male insert	Female insert
Crimp terminal (order crimp contacts separately)				
 	 M	HD-025-M(1-25) HD-025-M(26-50)	T2020252101-000 T2020502101-000	
	 F	HD-025-F(1-25) HD-025-F(26-50)		T2020252201-000 T2020502201-000

10A Contact

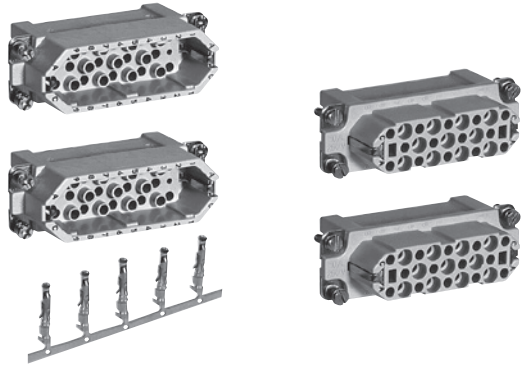
Tech data Material: copper alloy Contact resistance: ≤3mΩ Terminal: crimp connection CDM/Male	10A Male crimp contacts	Wire gauge		Strip- ping length	Crimp contacts, silver-plated		Crimp contacts, gold-plated	
		mm ²	AWG		Type	Part Number	Type	Part Number
		0.14-0.37	26-22	8.0	CDM-0.14	T2020001002-000	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
		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

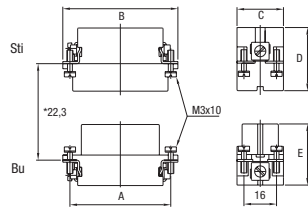
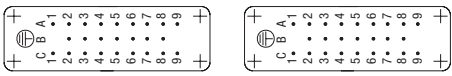
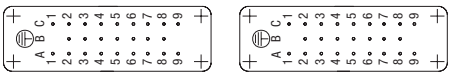
250V 10A

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

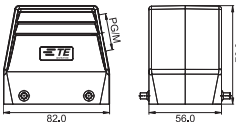
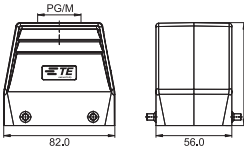
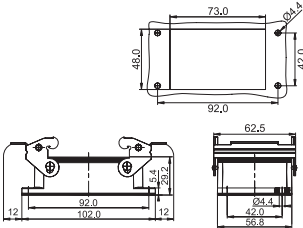
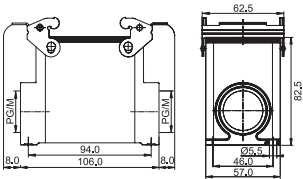
Dimensions	A	B	C	D	E
mm	66	73	23	35	35

Suitable crimp contacts and crimping tools: see page 111

Dimensions (mm)	Contact arrangement	
	Male insert	Female insert
		

H32A metal hoods/housings

POWDER-COATED, RAL 7037

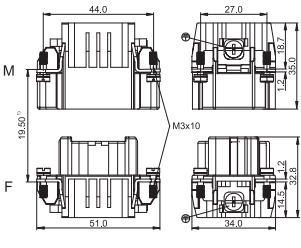
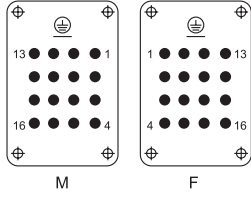
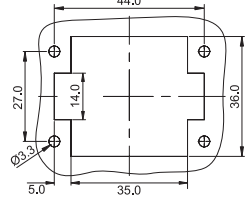
Dimensions (mm)	Metr.	PG	Type	Part Number
Hood: Side entry				
 	M25 M32 M40	PG21 PG29 PG36	H32A-TS-PG21 H32A-TS-PG29 H32A-TS-PG36 H32A-TS-M25 H32A-TS-M32 H32A-TS-M40	T1319320121-000 T1319320129-000 T1319320136-000 T1319320125-000 T1319320132-000 T1319320140-000
Hood: Top entry				
 	M25 M32 M40	PG21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

HDD-016 inserts

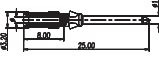
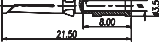
INSERTS FOR H6B HOOD/HOUSING

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

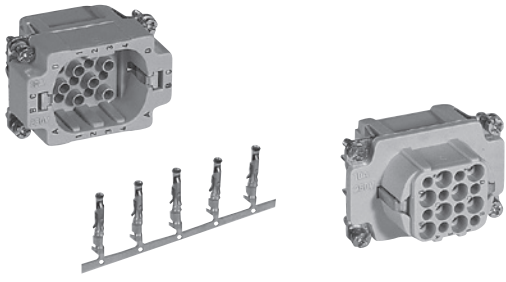
Tech data	10A Male crimp contacts	Wire gauge		Strip-ping length	Crimp contacts, silver-plated		Crimp contacts, gold-plated	
		mm ²	AWG		Type	Part Number	Type	Part Number
Material: copper alloy Contact resistance: ≤3mΩ Terminal: crimp connection CDM/Male 		0.14-0.37	26-22	8.0	CDM-0.14	T2020001002-000	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

HDD-016 inserts

INSERTS FOR H6B HOOD/HOUSING

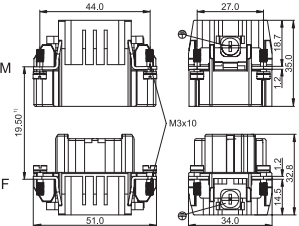
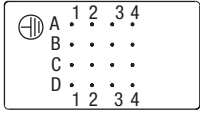
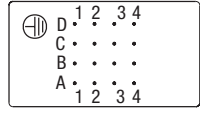
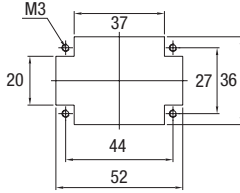
250V 10A

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

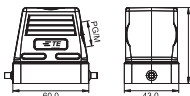
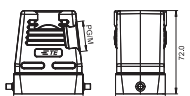
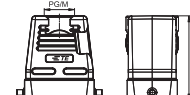
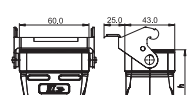
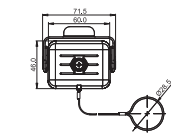
Dimensions	A	B	C	D	E
mm	44	51	33	35	35

Suitable crimp contacts and crimping tools: see page 111

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

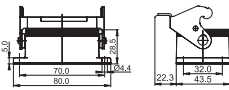
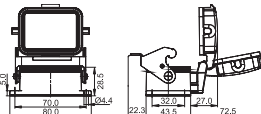
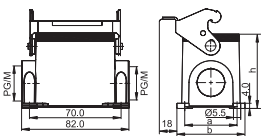
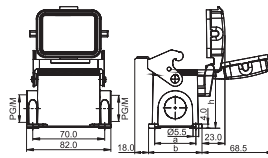
H6B with 1 lever on the hoods/housings

POWDER-COATED, RAL 7037

Dimensions (mm)		Metr.	PG	Type	Part Number						
Hood: Side entry											
	Low construction 	M20 M25	PG16 PG21	H6B-TS-PG16 H6B-TS-PG21 H6B-TS-M20 H6B-TS-M25	T1310060116-000 T1310060121-000 T1310060120-000 T1310060125-000						
	High construction 	M20 M25 M32	PG21 PG29	H6B-TSH-PG21 H6B-TSH-PG29 H6B-TSH-M20 H6B-TSH-M25 H6B-TSH-M32	T1330060121-000 T1330060129-000 T1330060120-000 T1330060125-000 T1330060132-000						
Hood: Top entry											
	Low construction 	M20 M25	PG16 PG21	H6B-TG-PG16 H6B-TG-PG21 H6B-TG-M20 H6B-TG-M25	T1320060116-000 T1320060121-000 T1320060120-000 T1320060125-000						
	High construction 	M20 M25 M32	PG21 PG29	H6B-TGH-PG21 H6B-TGH-PG29 H6B-TGH-M20 H6B-TGH-M25 H6B-TGH-M32	T1340060121-000 T1340060129-000 T1340060120-000 T1340060125-000 T1340060132-000						
Cable-to-cable hood											
	<table><tr><th>Construction</th><th>H</th></tr><tr><td>Low</td><td>62.5</td></tr><tr><td>High</td><td>74.5</td></tr></table>	Construction	H	Low	62.5	High	74.5	Low construction M20 M25 High construction M20 M25 M32	PG16 PG21 PG29	H6B-TBFS-PG16 H6B-TBFS-M20 H6B-TBFS-M25 H6B-TBFHS-PG21 H6B-TBFHS-PG29 H6B-TBFHS-M20 H6B-TBFHS-M25 H6B-TBFHS-M32	T1730062116-000 T1730062120-000 T1730062125-000 T1770062121-000 T1770062129-000 T1770062120-000 T1770062125-000 T1770062132-000
Construction	H										
Low	62.5										
High	74.5										
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																	
	Low construction 1 Side entry M20 M25 2 Side entry M20 M25 High construction 1 Side entry M25 M32 2 Side entry M25 M32 <table><tr><th>Construction</th><th>A</th><th>B</th><th>H</th></tr><tr><td>Low</td><td>40</td><td>52</td><td>56</td></tr><tr><td>Hight</td><td>45</td><td>57</td><td>74</td></tr></table>	Construction	A	B	H	Low	40	52	56	Hight	45	57	74	PG16 PG21 PG16 PG21 PG21 PG29 PG21 PG29 PG21 PG29	H6B-SGRS-PG16 H6B-SGRS-PG21 H6B-SGRS-M20 H6B-SGRS-M25 H6B-SGRS-2PG16 H6B-SGRS-2PG21 H6B-SGRS-2M20 H6B-SGRS-2M25 H6B-SGRHS-PG21 H6B-SGRHS-PG29 H6B-SGRHS-M25 H6B-SGRHS-M32 H6B-SGRHS-2PG21 H6B-SGRHS-2PG29 H6B-SGRHS-2M25 H6B-SGRHS-2M32	T1610062116-000 T1610062121-000 T1610062120-000 T1610062125-000 T1610062216-000 T1610062221-000 T1610062220-000 T1610062225-000 T1650062121-000 T1650062129-000 T1650062125-000 T1650062132-000 T1650062221-000 T1650062229-000 T1650062225-000 T1650062232-000	
Construction	A	B	H														
Low	40	52	56														
Hight	45	57	74														
	With protection cover  <table><tr><th>Construction</th><th>A</th><th>B</th><th>H</th></tr><tr><td>Low</td><td>40</td><td>52</td><td>56</td></tr><tr><td>Hight</td><td>45</td><td>57</td><td>74</td></tr></table>	Construction	A	B	H	Low	40	52	56	Hight	45	57	74	Low construction 1 Side entry M20 M25 2 Side entry M20 M25 High construction 1 Side entry M25 M32 2 Side entry M25 M32	PG16 PG21 PG16 PG21 PG21 PG29 PG21 PG29	H6B-SDRS-PG16 H6B-SDRS-PG21 H6B-SDRS-M20 H6B-SDRS-M25 H6B-SDRS-2PG16 H6B-SDRS-2PG21 H6B-SDRS-2M20 H6B-SDRS-2M25 H6B-SDRHS-PG21 H6B-SDRHS-PG29 H6B-SDRHS-M25 H6B-SDRHS-M32 H6B-SDRHS-2PG21 H6B-SDRHS-2PG29 H6B-SDRHS-2M25 H6B-SDRHS-2M32	T1620062116-000 T1620062121-000 T1620062120-000 T1620062125-000 T1620062216-000 T1620062221-000 T1620062220-000 T1620062225-000 T1660062121-000 T1660062129-000 T1660062125-000 T1660062132-000 T1660062221-000 T1660062229-000 T1660062225-000 T1660062232-000
Construction	A	B	H														
Low	40	52	56														
Hight	45	57	74														

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

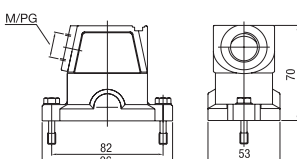
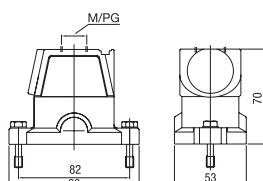
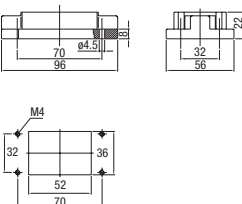
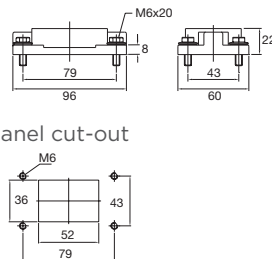
HIP: Pressure-tight, silver-grey

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

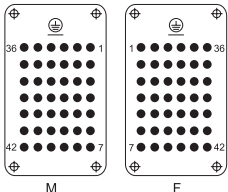
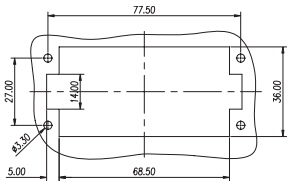
Description		Metr.	PG	Type	Part Number
Hood: Side entry					
		M25	16	HIP HIP.6/16.STS.1.16.G HIP.6/16.STS.1.M25.G	1-1102631-5 0-1106425-2
		M25	16 21	HIP-K HIP-K.6/16.STS.1.16.G HIP-K.6/16.STS.1.21.G HIP-K.6/16.STS.1.M25.G	2-1102631-5 2-1102633-5 0-1106425-4
		M25	16	EMV-K EMV-K.6/16.STS.1.16.G EMV-K.6/16.STS.1.M25.G	4-1102704-5 0-1106416-4
Hood: Top entry					
		M32	16	HIP HIP.6/16.STO.1.16.G HIP.6/16.STO.1.M32.G	1-1102635-5 0-1106425-1
		M25 M32	16 21	HIP-K HIP-K.6/16.STO.1.16.G HIP-K.6/16.STO.1.21.G HIP-K.6/16.STO.1.M25.G HIP-K.6/16.STO.1.M32.G	2-1102635-5 2-1102637-5 0-1106425-6 0-1106425-3
		M32	13 16 21	EMV-K EMV-K.6/16.STO.1.13.G EMV-K.6/16.STO.1.16.G EMV-K.6/16.STO.1.21.G EMV-K.6/16.STO.1.M32.G	0-1108719-1 4-1102706-5 4-1102707-5 0-1106416-3
Surface mounted housing: Bottom entry					
				HIP HIP.6/16.AG	1-1102638-5
				HIP-K HIP-K.6/16.AG	2-1102638-5
				EMV-K EMV-K.6/16.AG	4-1102710-5
	 Panel cut-out			HIP HIP.6/16.AG.M6	1-1102606-5
				HIP-K HIP-K.6/16.AG.M6	2-1102606-5
				EMV-K EMV-K.6/16.AG.M6	4-1102712-5

HDD-042 inserts

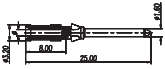
INSERTS FOR H10B HOOD/HOUSING

250V 10A

42+ (machined contacts)

Dimensions (mm)	Type	Part Number	
		Male insert	Female insert
Crimp terminal (order crimp contacts separately)			
	HDD-042-M	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

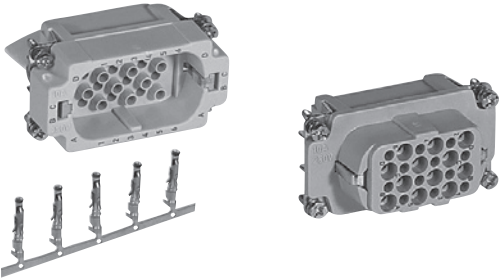
Tech data Material: copper alloy Contact resistance: $\leq 3m\Omega$ Terminal: crimp connection CDM/Male	10A Male crimp contacts 	Wire gauge		Strip- ping length	Crimp contacts, silver-plated		Crimp contacts, gold-plated	
		mm ²	AWG		Type	Part Number	Type	Part Number
 CDF/Female	10A Female crimp contacts 	0.14-0.37	26-22	8.0	CDM-0.14	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
		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

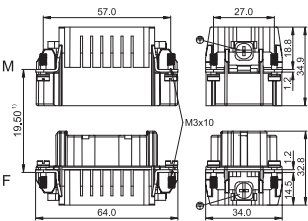
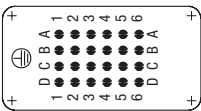
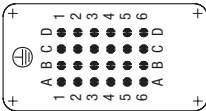
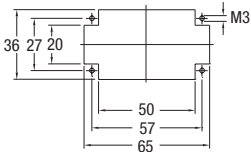
250V 10A

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

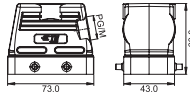
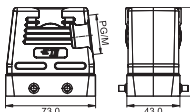
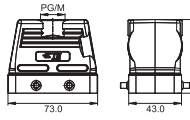
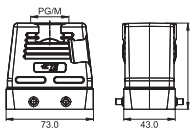
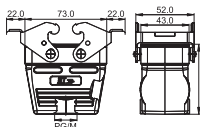
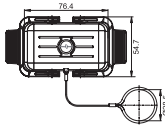
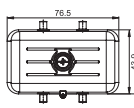
Dimensions	A	B	C	D	E
mm	57	64	33	35	35

Suitable crimp contacts and crimping tools: see page 111

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

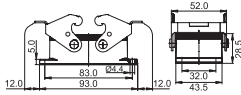
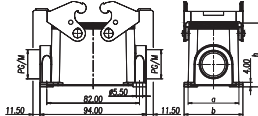
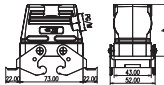
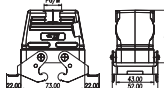
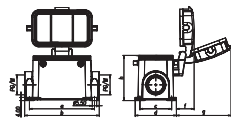
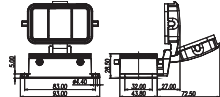
H10B with 2 levers on the hoods/housings

POWDER-COATED, RAL 7037

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

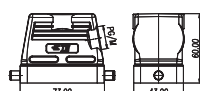
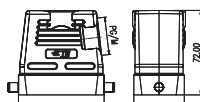
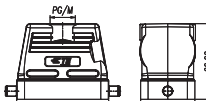
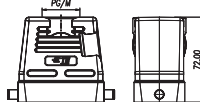
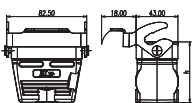
H10B with 2 levers on the hoods/housings

POWDER-COATED, RAL 7037

Dimensions (mm)	Metr.	PG	Type	Part Number																								
Bulkhead mounted																												
			H10B-AGS	T1410101000-000																								
Surface mounted: Side entry																												
	<table><tr><td>Construction</td><td>A</td><td>B</td><td>H</td></tr><tr><td>Low</td><td>40</td><td>52</td><td>56</td></tr><tr><td>High</td><td>45</td><td>57</td><td>74</td></tr></table> 1 Side entry Low construction 2 Side entry M20 M25 1 Side entry High construction 2 Side entry M25 M32	Construction	A	B	H	Low	40	52	56	High	45	57	74	PG16 PG21 PG16 PG21 PG21 PG29 PG21 PG29	H10B-SGRS-PG16 H10B-SGRS-PG21 H10B-SGRS-M20 H10B-SGRS-M25 H10B-SGRS-2PG16 H10B-SGRS-2PG21 H10B-SGRS-2M20 H10B-SGRS-2M25 H10B-SGRHS-PG21 H10B-SGRHS-PG29 H10B-SGRHS-M25 H10B-SGRHS-M32 H10B-SGRHS-2PG21 H10B-SGRHS-2PG29 H10B-SGRHS-2M25 H10B-SGRHS-2M32	T1440101116-000 T1440101121-000 T1440101120-000 T1440101125-000 T1440101216-000 T1440101221-000 T1440101220-000 T1440101225-000 T1470101121-000 T1470101129-000 T1470101125-000 T1470101132-000 T1470101221-000 T1470101229-000 T1470101225-000 T1470101232-000												
Construction	A	B	H																									
Low	40	52	56																									
High	45	57	74																									
Side entry housing with two levers																												
	<table><tr><td>Construction</td><td>H</td></tr><tr><td>Low</td><td>60</td></tr><tr><td>High</td><td>72</td></tr></table> Low construction High construction	Construction	H	Low	60	High	72	M20 M25 M25 M32	PG16 PG21 PG21 PG29	H10B-TSBS-PG16 H10B-TSBS-PG21 H10B-TSBS-M20 H10B-TSBS-M25 H10B-TSBHS-PG21 H10B-TSBHS-PG29 H10B-TSBHS-M25 H10B-TSBHS-M32 T1250103116-000 T1250103121-000 T1250103120-000 T1250103125-000 T1270103121-000 T1270103129-000 T1270103125-000 T1270103132-000																		
Construction	H																											
Low	60																											
High	72																											
Top entry housing with two levers																												
	<table><tr><td>Construction</td><td>H</td></tr><tr><td>Low</td><td>60</td></tr><tr><td>High</td><td>72</td></tr></table> Low construction High construction	Construction	H	Low	60	High	72	M20 M25 M25 M32	PG16 PG21 PG21 PG29	H10B-TGBS-PG16 H10B-TGBS-PG21 H10B-TGBS-M20 H10B-TGBS-M25 H10B-TGBHS-PG21 H10B-TGBHS-PG29 H10B-TGBHS-M25 H10B-TGBHS-M32 T1260103116-000 T1260103121-000 T1260103120-000 T1260103125-000 T1280103121-000 T1280103129-000 T1280103125-000 T1280103132-000																		
Construction	H																											
Low	60																											
High	72																											
Bulkhead mounted with 4 bolts																												
	With protection cover <table><tr><td>Construction</td><td>A</td><td>B</td><td>C</td><td>D</td><td>F</td><td>G</td><td>H</td></tr><tr><td>Low</td><td>82</td><td>94</td><td>40</td><td>52</td><td>22</td><td>67</td><td>54</td></tr><tr><td>High</td><td>82</td><td>94</td><td>45</td><td>57</td><td>20</td><td>65</td><td>74</td></tr></table> 1 Side entry Low construction 2 Side entry M20 M25 1 Side entry High construction 2 Side entry M25 M32	Construction	A	B	C	D	F	G	H	Low	82	94	40	52	22	67	54	High	82	94	45	57	20	65	74	PG16 PG21 PG16 PG21 PG21 PG29 PG21 PG29	H10B-AD-BO H10B-SDR-BO-PG16 H10B-SDR-BO-PG21 H10B-SDR-BO-M20 H10B-SDR-BO-M25 H10B-SDR-BO-2PG16 H10B-SDR-BO-2PG21 H10B-SDR-BO-2M20 H10B-SDR-BO-2M25 H10B-SDRH-BO-PG21 H10B-SDRH-BO-PG29 H10B-SDRH-BO-M25 H10B-SDRH-BO-M32 H10B-SDRH-BO-2PG21 H10B-SDRH-BO-2PG29 H10B-SDRH-BO-2M25 H10B-SDRH-BO-2M32	T1430100000-000 T1460100116-000 T1460100121-000 T1460100120-000 T1460100125-000 T1460100216-000 T1460100221-000 T1460100220-000 T1460100225-000 T1490100121-000 T1490100129-000 T1490100125-000 T1490100132-000 T1490100221-000 T1490100229-000 T1490100225-000 T1490100232-000
Construction	A	B	C	D	F	G	H																					
Low	82	94	40	52	22	67	54																					
High	82	94	45	57	20	65	74																					

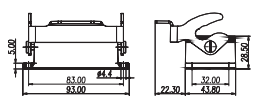
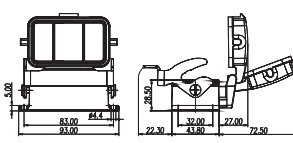
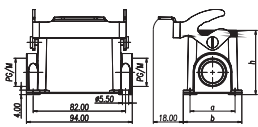
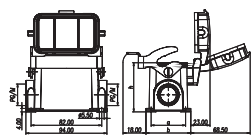
H10B with 1 lever on the hoods/housings

POWDER-COATED, RAL 7037

Dimensions (mm)	Metr.	PG	Type	Part Number						
Hood: Side entry										
	Low construction 	M20 M25	PG16 PG21 H10B-TS-RO-PG16 H10B-TS-RO-PG21 H10B-TS-RO-M20 H10B-TS-RO-M25	T1310100116-000 T1310100121-000 T1310100120-000 T1310100125-000						
	High construction 	M20 M25 M32	PG21 PG29 H10B-TSH-RO-PG21 H10B-TSH-RO-PG29 H10B-TSH-RO-M20 H10B-TSH-RO-M25 H10B-TSH-RO-M32	T1330100121-000 T1330100129-000 T1330100120-000 T1330100125-000 T1330100132-000						
Hood: Top entry										
	Low construction 	M20 M25	PG16 PG21 H10B-TG-RO-PG16 H10B-TG-RO-PG21 H10B-TG-RO-M20 H10B-TG-RO-M25	T1320100116-000 T1320100121-000 T1320100120-000 T1320100125-000						
	High construction 	M20 M25 M32	PG21 PG29 H10B-TGH-RO-PG21 H10B-TGH-RO-PG29 H10B-TGH-RO-M20 H10B-TGH-RO-M25 H10B-TGH-RO-M32	T1340100121-000 T1340100129-000 T1340100120-000 T1340100125-000 T1340100132-000						
Cable-to-cable hood										
	<table><tr><th>Construction</th><th>H</th></tr><tr><td>Low</td><td>62.5</td></tr><tr><td>High</td><td>74.5</td></tr></table>	Construction	H	Low	62.5	High	74.5	M20 M25 M25 M32	PG16 PG21 PG29 H10B-TBF-LB-PG16 H10B-TBF-LB-M20 H10B-TBF-LB-M25 H10B-TBFH-LB-PG21 H10B-TBFH-LB-PG29 H10B-TBFH-LB-M25 H10B-TBFH-LB-M32	T1730103116-000 T1730103120-000 T1730103125-000 T1770103121-000 T1770103129-000 T1770103125-000 T1770103132-000
Construction	H									
Low	62.5									
High	74.5									
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 H10B-ADM-LB	T1510103000-000 T1510103001-000													
Surface mounted: Side entry																	
	1 Side entry 2 Side entry Low construction High construction <table><tr><th>Construction</th><th>A</th><th>B</th><th>H</th></tr><tr><td>Low</td><td>40</td><td>52</td><td>54</td></tr><tr><td>Hight</td><td>45</td><td>57</td><td>74</td></tr></table>	Construction	A	B	H	Low	40	52	54	Hight	45	57	74	M20 M25 M20 M25 M25 M32 M25 M32	PG16 PG21 PG16 PG21 PG21 PG29 PG21 PG29	H10B-SGR-LB-PG16 H10B-SGR-LB-PG21 H10B-SGR-LB-M20 H10B-SGR-LB-M25 H10B-SGR-LB-2PG16 H10B-SGR-LB-2PG21 H10B-SGR-LB-2M20 H10B-SGR-LB-2M25 H10B-SGRH-LB-PG21 H10B-SGRH-LB-PG29 H10B-SGRH-LB-M25 H10B-SGRH-LB-M32 H10B-SGRH-LB-2PG21 H10B-SGRH-LB-2PG29 H10B-SGRH-LB-2M25 H10B-SGRH-LB-2M32	T1610103116-000 T1610103121-000 T1610103120-000 T1610103125-000 T1610103216-000 T1610103221-000 T1610103220-000 T1610103225-000 T1650103121-000 T1650103129-000 T1650103125-000 T1650103132-000 T1650103221-000 T1650103229-000 T1650103225-000 T1650103232-000
Construction	A	B	H														
Low	40	52	54														
Hight	45	57	74														
	With protection cover  <table><tr><th>Construction</th><th>A</th><th>B</th><th>H</th></tr><tr><td>Low</td><td>40</td><td>52</td><td>54</td></tr><tr><td>Hight</td><td>45</td><td>57</td><td>74</td></tr></table>	Construction	A	B	H	Low	40	52	54	Hight	45	57	74	M20 M25 M20 M25 M25 M32 M25 M32	PG16 PG21 PG16 PG21 PG21 PG29 PG21 PG29	H10B-SDR-LB-PG16 H10B-SDR-LB-PG21 H10B-SDR-LB-M20 H10B-SDR-LB-M25 H10B-SDR-LB-2PG16 H10B-SDR-LB-2PG21 H10B-SDR-LB-2M20 H10B-SDR-LB-2M25 H10B-SDRH-LB-PG21 H10B-SDRH-LB-PG29 H10B-SDRH-LB-M25 H10B-SDRH-LB-M32 H10B-SDRH-LB-2PG21 H10B-SDRH-LB-2PG29 H10B-SDRH-LB-2M25 H10B-SDRH-LB-2M32	T1620103116-000 T1620103121-000 T1620103120-000 T1620103125-000 T1620103216-000 T1620103221-000 T1620103220-000 T1620103225-000 T1660103121-000 T1660103129-000 T1660103125-000 T1660103132-000 T1660103221-000 T1660103229-000 T1660103225-000 T1660103232-000
Construction	A	B	H														
Low	40	52	54														
Hight	45	57	74														

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

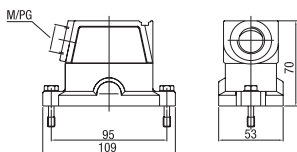
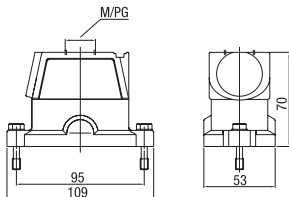
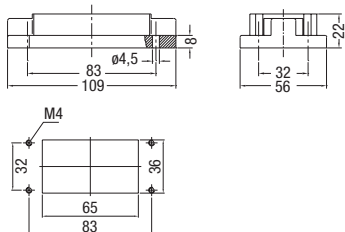
HIP: Pressure-tight, silver-grey

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

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

Pressure-tight up to 5 bar

IP 68 / IP 69 K

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

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

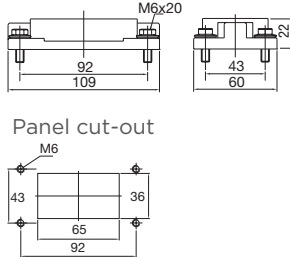
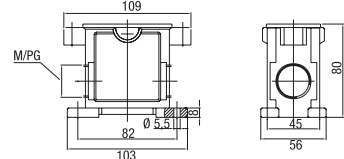
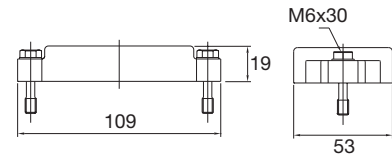
HIP: Pressure-tight, silver-grey

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

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

Pressure-tight up to 5 bar

IP 68 / IP 69 K

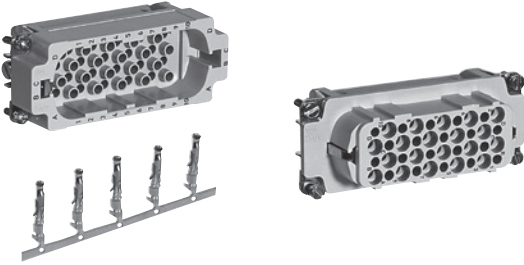
Description	Metr.	PG	Type	Part Number	
Surface mounted housing: Bottom entry					
			HIP HIP.10/24.AG.M6 HIP-K HIP-K.10/24.AG.M6 EMV-K EMV-K.10/24.AG.M6	1-1102612-5 2-1102612-5 4-1102720-5	
Surface mounted housing: Side entry					
		2xM32 2xM32	21 2x21 21 2x21 21 2x21	HIP HIP.10/24.SG.1.21.G HIP.10/24.SG.2.21.G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

HD-040 inserts

INSERTS FOR H16B HOOD/HOUSING

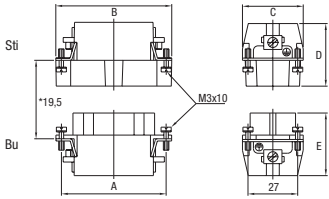
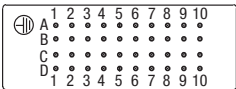
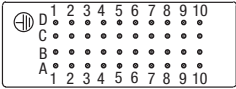
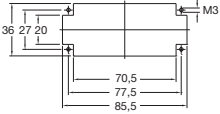
250V 10A

40+⌀ (stamped and formed contacts)

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

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

Suitable crimp contacts and crimping tools: see page 111

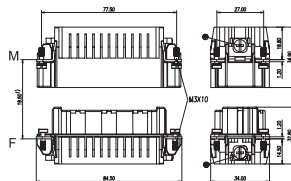
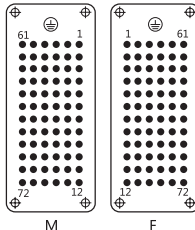
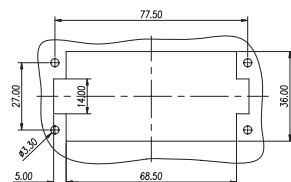
Dimensions (mm)	Contact arrangement		Panel cut-out
	Male insert	Female insert	
			

HDD-072 inserts

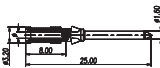
INSERTS FOR H16B HOOD/HOUSING

250V 10A

72+⊕ (machined contacts)

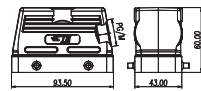
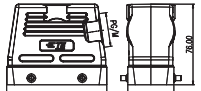
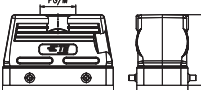
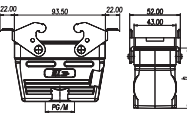
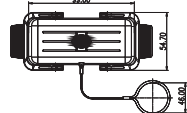
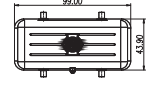
Dimensions (mm)		Type	Part Number	
			Male insert	Female insert
Crimp terminal (order crimp contacts separately)				
		HDD-072-M	T2030722101-000	
		HDD-072-F		T2030722201-000
Contact arrangement view from termination side	Panel cut out for inserts for use without hoods/housings			
				

10A Contact

Tech data	10A Male crimp contacts	Wire gauge		Strip-ping length	Crimp contacts, silver-plated		Crimp contacts, gold-plated	
		mm ²	AWG		Type	Part Number	Type	Part Number
Material: copper alloy Contact resistance: ≤3mΩ Terminal: crimp connection CDM/Male 		0.14-0.37	26-22	8.0	CDM-0.14	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

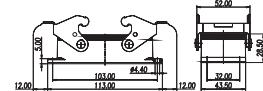
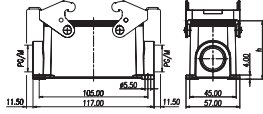
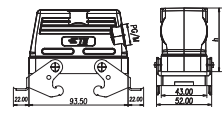
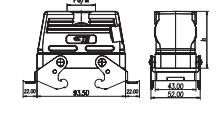
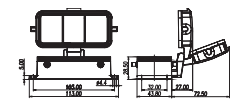
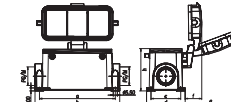
H16B with 2 levers on the hoods/housings

POWDER-COATED, RAL 7037

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

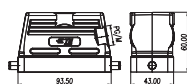
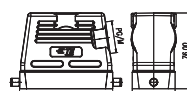
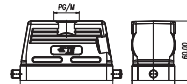
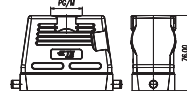
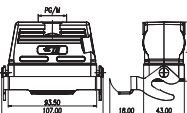
H16B with 2 levers on the hoods/housings

POWDER-COATED, RAL 7037

Dimensions (mm)	Metr.	PG	Type	Part Number																										
Bulkhead mounted																														
			H16B-AGS	T1410161000-000																										
Surface mounted: Side entry																														
	 <table><tr><td>Construction</td><td>H</td></tr><tr><td>Low</td><td>56</td></tr><tr><td>Hight</td><td>81</td></tr></table>	Construction	H	Low	56	Hight	81	1 Side entry 2 Side entry Low construction High construction	M25 M25 M25 M32 M25 M32	PG21 PG21 PG21 PG29 PG21 PG29	H16B-SGRS-PG21 H16B-SGRS-M25 H16B-SGRS-2PG21 H16B-SGRS-2M25 H16B-SGRHS-PG21 H16B-SGRHS-PG29 H16B-SGRHS-M25 H16B-SGRHS-M32 H16B-SGRHS-2PG21 H16B-SGRHS-2PG29 H16B-SGRHS-2M25 H16B-SGRHS-2M32	T1440161121-000 T1440161125-000 T1440161221-000 T1440161225-000 T1470161121-000 T1470161129-000 T1470161125-000 T1470161132-000 T1470161221-000 T1470161229-000 T1470161225-000 T1470161232-000																		
Construction	H																													
Low	56																													
Hight	81																													
Side entry housing with two levers																														
	 <table><tr><td>Construction</td><td>H</td></tr><tr><td>Low</td><td>60</td></tr><tr><td>Hight</td><td>76</td></tr></table>	Construction	H	Low	60	Hight	76	Low construction High construction	M20 M25 M25 M32	PG16 PG21 PG21 PG29	H16B-TSBS-PG16 H16B-TSBS-PG21 H16B-TSBS-M20 H16B-TSBS-M25 H16B-TSBHS-PG21 H16B-TSBHS-PG29 H16B-TSBHS-M25 H16B-TSBHS-M32	T1250163116-000 T1250163121-000 T1250163120-000 T1250163125-000 T1270163121-000 T1270163129-000 T1270163125-000 T1270163132-000																		
Construction	H																													
Low	60																													
Hight	76																													
Top entry housing with two levers																														
	 <table><tr><td>Construction</td><td>H</td></tr><tr><td>Low</td><td>60</td></tr><tr><td>Hight</td><td>76</td></tr></table>	Construction	H	Low	60	Hight	76	Low construction High construction	M20 M25 M25 M32	PG16 PG21 PG21 PG29	H16B-TGBS-PG16 H16B-TGBS-PG21 H16B-TGBS-M20 H16B-TGBS-M25 H16B-TGBHS-PG21 H16B-TGBHS-PG29 H16B-TGBHS-M25 H16B-TGBHS-M32	T1260163116-000 T1260163121-000 T1260163120-000 T1260163125-000 T1280163121-000 T1280163129-000 T1280163125-000 T1280163132-000																		
Construction	H																													
Low	60																													
Hight	76																													
Bulkhead mounted with 4 bolts																														
 	With protection cover   <table><tr><td>Construction</td><td>A</td><td>B</td><td>C</td><td>D</td><td>F</td><td>G</td><td>H</td></tr><tr><td>Low</td><td>105</td><td>117</td><td>45</td><td>57</td><td>20</td><td>65</td><td>56</td></tr><tr><td>Hight</td><td>105</td><td>117</td><td>45</td><td>57</td><td>20</td><td>65</td><td>81</td></tr></table>	Construction	A	B	C	D	F	G	H	Low	105	117	45	57	20	65	56	Hight	105	117	45	57	20	65	81	1 Side entry 2 Side entry Low construction High construction	M25 M25 M25 M32 M25 M32	PG21 PG21 PG21 PG29 PG21 PG29	H16B-AD-BO H16B-SDR-BO-PG21 H16B-SDR-BO-M25 H16B-SDR-BO-2PG21 H16B-SDR-BO-2M25 H16B-SDRH-BO-PG21 H16B-SDRH-BO-PG29 H16B-SDRH-BO-M25 H16B-SDRH-BO-M32 H16B-SDRH-BO-2PG21 H16B-SDRH-BO-2PG29 H16B-SDRH-BO-2M25 H16B-SDRH-BO-2M32	T1430160000-000 T1460160121-000 T1460160125-000 T1460160221-000 T1460160225-000 T1490160121-000 T1490160129-000 T1490160125-000 T1490160132-000 T1490160221-000 T1490160229-000 T1490160225-000 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																							

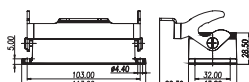
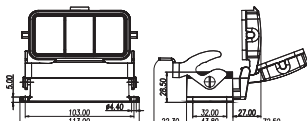
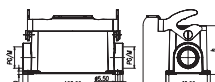
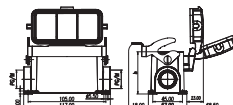
H16B with 1 lever on the hoods/housings

POWDER-COATED, RAL 7037

Dimensions (mm)		Metr.	PG	Type	Part Number						
Hood: Side entry											
	Low construction 	M25 M32	PG21 PG29	H16B-TS-RO-PG21 H16B-TS-RO-PG29 H16B-TS-RO-M25 H16B-TS-RO-M32	T1310160121-000 T1310160129-000 T1310160125-000 T1310160132-000						
	High construction 	M25 M32 M40	PG21 PG29	H16B-TSH-RO-PG21 H16B-TSH-RO-PG29 H16B-TSH-RO-M25 H16B-TSH-RO-M32 H16B-TSH-RO-M40	T1330160121-000 T1330160129-000 T1330160125-000 T1330160132-000 T1330160140-000						
Hood: Top entry											
	Low construction 	M25 M32	PG21 PG29	H16B-TG-RO-PG21 H16B-TG-RO-PG29 H16B-TG-RO-M25 H16B-TG-RO-M32	T1320160121-000 T1320160129-000 T1320160125-000 T1320160132-000						
	High construction 	M25 M32 M40	PG21 PG29	H16B-TGH-RO-PG21 H16B-TGH-RO-PG29 H16B-TGH-RO-M25 H16B-TGH-RO-M32 H16B-TGH-RO-M40	T1340160121-000 T1340160129-000 T1340160125-000 T1340160132-000 T1340160140-000						
Cable-to-cable hood											
	 <table><tr><th>Construction</th><th>H</th></tr><tr><td>Low</td><td>62.5</td></tr><tr><td>High</td><td>74.5</td></tr></table> Low construction High construction	Construction	H	Low	62.5	High	74.5	M25 M32 M25 M32 M40	PG21 PG29 PG21 PG29	H16B-TBF-LB-PG21 H16B-TBF-LB-PG29 H16B-TBF-LB-M25 H16B-TBF-LB-M32 H16B-TBFH-LB-PG21 H16B-TBFH-LB-PG29 H16B-TBFH-LB-M25 H16B-TBFH-LB-M32 H16B-TBFH-LB-M40	T1730163121-000 T1730163129-000 T1730163125-000 T1730163132-000 T1770163121-000 T1770163129-000 T1770163125-000 T1770163132-000 T1770163140-000
Construction	H										
Low	62.5										
High	74.5										
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 M20 M25 2 Side entry M20 M25 1 Side entry High construction M25 M32 2 Side entry M25 M32 <table><tr><td>Construction</td><td>H</td></tr><tr><td>Low</td><td>56</td></tr><tr><td>High</td><td>81</td></tr></table> 	Construction	H	Low	56	High	81	PG16 PG21 PG16 PG21 PG21 PG29 PG21 PG29	H16B-SGR-LB-PG16 H16B-SGR-LB-PG21 H16B-SGR-LB-M20 H16B-SGR-LB-M25 H16B-SGR-LB-2PG16 H16B-SGR-LB-2PG21 H16B-SGR-LB-2M20 H16B-SGR-LB-2M25 H16B-SGRH-LB-PG21 H16B-SGRH-LB-PG29 H16B-SGRH-LB-M25 H16B-SGRH-LB-M32 H16B-SGRH-LB-2PG21 H16B-SGRH-LB-2PG29 H16B-SGRH-LB-2M25 H16B-SGRH-LB-2M32	T1610163116-000 T1610163121-000 T1610163120-000 T1610163125-000 T1610163216-000 T1610163221-000 T1610163220-000 T1610163225-000 T1650163121-000 T1650163129-000 T1650163125-000 T1650163132-000 T1650163221-000 T1650163229-000 T1650163225-000 T1650163232-000
Construction	H									
Low	56									
High	81									
	With protection cover 	1 Side entry Low construction M20 M25 2 Side entry M20 M25 1 Side entry High construction M25 M32 2 Side entry M25 M32	PG16 PG21 PG16 PG21 PG21 PG29 PG21 PG29	H16B-SDR-LB-PG16 H16B-SDR-LB-PG21 H16B-SDR-LB-M20 H16B-SDR-LB-M25 H16B-SDR-LB-2PG16 H16B-SDR-LB-2PG21 H16B-SDR-LB-2M20 H16B-SDR-LB-2M25 H16B-SDRH-LB-PG21 H16B-SDRH-LB-PG29 H16B-SDRH-LB-M25 H16B-SDRH-LB-M32 H16B-SDRH-LB-2PG21 H16B-SDRH-LB-2PG29 H16B-SDRH-LB-2M25 H16B-SDRH-LB-2M32	T1620163116-000 T1620163121-000 T1620163120-000 T1620163125-000 T1620163216-000 T1620163221-000 T1620163220-000 T1620163225-000 T1660163121-000 T1660163129-000 T1660163125-000 T1660163132-000 T1660163221-000 T1660163229-000 T1660163225-000 T1660163232-000					

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

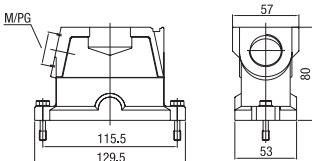
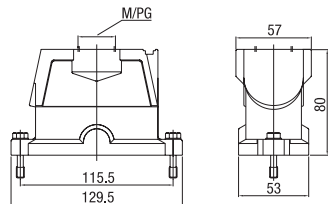
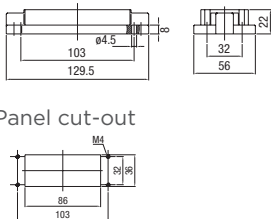
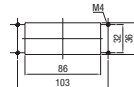
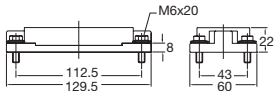
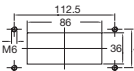
HIP: Pressure-tight, silver-grey

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

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

Pressure-tight up to 5 bar

IP 68 / IP 69 K

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

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

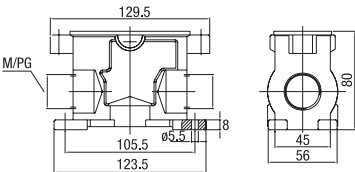
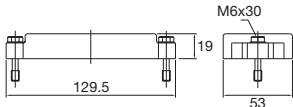
HIP: Pressure-tight, silver-grey

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

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

Pressure-tight up to 5 bar

IP 68 / IP 69 K

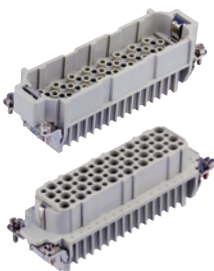
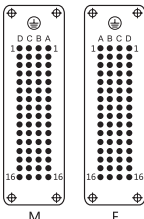
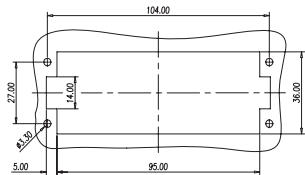
Description	Metr.	PG	Type	Part Number	
Surface mounted housing: Side entry					
		2xM32	21 2x21	HIP HIP.16/40.SG.1.21.G HIP.16/40.SG.2.21.G HIP.16/40.SG.2.M32.G	1-1102616-5 1-1102617-5 0-1106453-1
		2xM32	21 2x21	HIP-K HIP-K.16/40.SG.1.21.G HIP-K.16/40.SG.2.21.G HIP-K.16/40.SG.2.M32.G	5-1102616-5 2-1102617-5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

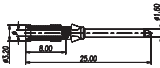
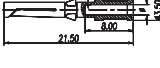
INSERTS FOR H24B HOOD/HOUSING

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

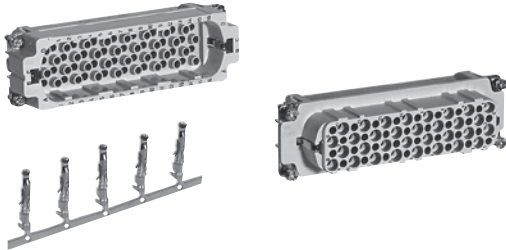
Tech data Material: copper alloy Contact resistance: $\leq 3\text{m}\Omega$ Terminal: crimp connection CDM/Male 	10A Male crimp contacts 	Wire gauge		Strip-ping length	Crimp contacts, silver-plated		Crimp contacts, gold-plated	
		mm ²	AWG		Type	Part Number	Type	Part Number
CDF/Female 	10A Female crimp contacts 	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
		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-064 inserts

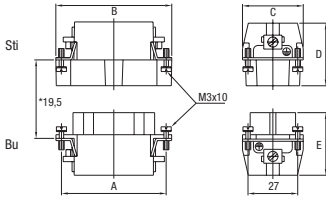
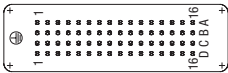
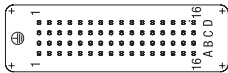
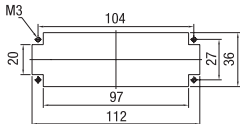
INSERTS FOR H24B HOOD/HOUSING

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

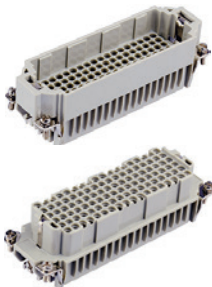
Dimensions (mm)	Contact arrangement		Panel cut-out
	Male insert	Female insert	
			

HDD-108 inserts

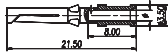
INSERTS FOR H24B HOOD/HOUSING

250V 10A

108+⊕ (machined contacts)

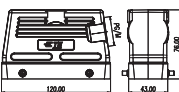
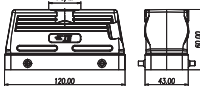
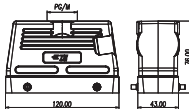
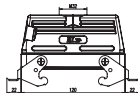
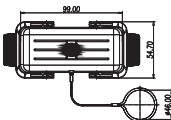
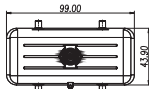
Dimensions (mm)	Type	Part Number	
		Male insert	Female insert
Crimp terminal (order crimp contacts separately)			
			

10A Contact

Tech data	10A Male crimp contacts	Wire gauge		Strip-ping length	Crimp contacts, silver-plated		Crimp contacts, gold-plated	
		mm ²	AWG		Type	Part Number	Type	Part Number
Material: copper alloy Contact resistance: ≤3mΩ Terminal: crimp connection CDM/Male 		0.14-0.37	26-22	8.0	CDM-0.14	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

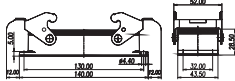
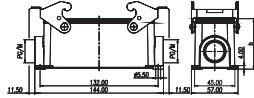
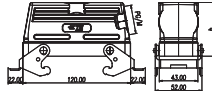
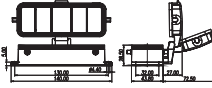
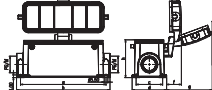
H24B with 2 levers on the hoods/housings

POWDER-COATED, RAL 7037

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

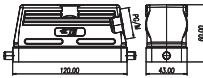
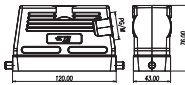
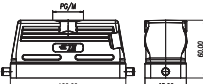
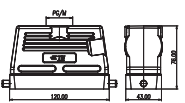
H24B with 2 levers on the hoods/housings

POWDER-COATED, RAL 7037

Dimensions (mm)		Metr.	PG	Type	Part Number																								
Bulkhead mounted																													
				H24B-AGS	T1410241000-000																								
Surface mounted: Side entry																													
	<table><tr><td>Construction</td><td>H</td></tr><tr><td>Low</td><td>56</td></tr><tr><td>Hight</td><td>81</td></tr></table> 1 Side entry Low construction 2 Side entry High construction	Construction	H	Low	56	Hight	81	M25 M25 M25 M32 M25 M32	PG21 PG21 PG21 PG29 PG21 PG29	H24B-SGRS-PG21 H24B-SGRS-M25 H24B-SGRS-2PG21 H24B-SGRS-2M25 H24B-SGRHS-PG21 H24B-SGRHS-PG29 H24B-SGRHS-M25 H24B-SGRHS-M32 H24B-SGRHS-2PG21 H24B-SGRHS-2PG29 H24B-SGRHS-2M25 H24B-SGRHS-2M32	T1440241121-000 T1440241125-000 T1440241221-000 T1440241225-000 T1470241121-000 T1470241129-000 T1470241125-000 T1470241132-000 T1470241221-000 T1470241229-000 T1470241225-000 T1470241232-000																		
Construction	H																												
Low	56																												
Hight	81																												
Side entry housing with two levers																													
	<table><tr><td>Construction</td><td>H</td></tr><tr><td>Low</td><td>60</td></tr><tr><td>Hight</td><td>76</td></tr></table> Low construction High construction	Construction	H	Low	60	Hight	76	M20 M25 M25 M32	PG16 PG21 PG21 PG29	H24B-TSBS-PG16 H24B-TSBS-PG21 H24B-TSBS-M20 H24B-TSBS-M25 H24B-TSBHS-PG21 H24B-TSBHS-PG29 H24B-TSBHS-M25 H24B-TSBHS-M32	T1250243116-000 T1250243121-000 T1250243120-000 T1250243125-000 T1270243121-000 T1270243129-000 T1270243125-000 T1270243132-000																		
Construction	H																												
Low	60																												
Hight	76																												
Top entry housing with two levers																													
	<table><tr><td>Construction</td><td>H</td></tr><tr><td>Low</td><td>60</td></tr><tr><td>Hight</td><td>76</td></tr></table> Low construction High construction	Construction	H	Low	60	Hight	76	M20 M25 M25 M32	PG16 PG21 PG21 PG29	H24B-TGBS-PG16 H24B-TGBS-PG21 H24B-TGBS-M20 H24B-TGBS-M25 H24B-TGBHS-PG21 H24B-TGBHS-PG29 H24B-TGBHS-M25 H24B-TGBHS-M32	T1260243116-000 T1260243121-000 T1260243120-000 T1260243125-000 T1280243121-000 T1280243129-000 T1280243125-000 T1280243132-000																		
Construction	H																												
Low	60																												
Hight	76																												
Bulkhead mounted with 4 bolts																													
 	With protection cover  <table><tr><td>Construction</td><td>A</td><td>B</td><td>C</td><td>D</td><td>F</td><td>G</td><td>H</td></tr><tr><td>Low</td><td>132</td><td>144</td><td>45</td><td>57</td><td>20</td><td>65</td><td>56</td></tr><tr><td>Hight</td><td>132</td><td>144</td><td>45</td><td>57</td><td>20</td><td>65</td><td>81</td></tr></table> 1 Side entry Low construction 2 Side entry High construction	Construction	A	B	C	D	F	G	H	Low	132	144	45	57	20	65	56	Hight	132	144	45	57	20	65	81	M25 M25 M25 M32 M25 M32	PG21 PG21 PG21 PG29 PG21 PG29	H24B-AD-BO H24B-SDR-BO-PG21 H24B-SDR-BO-M25 H24B-SDR-BO-2PG21 H24B-SDR-BO-2M25 H24B-SDRH-BO-PG21 H24B-SDRH-BO-PG29 H24B-SDRH-BO-M25 H24B-SDRH-BO-M32 H24B-SDRH-BO-2PG21 H24B-SDRH-BO-2PG29 H24B-SDRH-BO-2M25 H24B-SDRH-BO-2M32	T1430240000-000 T1460240121-000 T1460240125-000 T1460240221-000 T1460240225-000 T1490240121-000 T1490240129-000 T1490240125-000 T1490240132-000 T1490240221-000 T1490240229-000 T1490240225-000 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																						

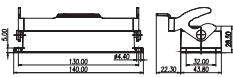
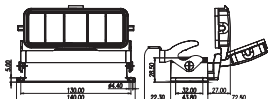
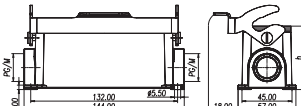
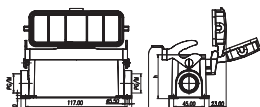
H24B with 1 lever on the hoods/housings

POWDER-COATED, RAL 7037

Dimensions (mm)		Metr.	PG	Type	Part Number						
Hood: Side entry											
	Low construction 	M25 M32	PG21 PG29	H24B-TS-RO-PG21 H24B-TS-RO-PG29 H24B-TS-RO-M25 H24B-TS-RO-M32	T1310240121-000 T1310240129-000 T1310240125-000 T1310240132-000						
	High construction 	M25 M32 M40	PG21 PG29	H24B-TSH-RO-PG21 H24B-TSH-RO-PG29 H24B-TSH-RO-M25 H24B-TSH-RO-M32 H24B-TSH-RO-M40	T1330240121-000 T1330240129-000 T1330240125-000 T1330240132-000 T1330240140-000						
Hood: Top entry											
	Low construction 	M25 M32	PG21 PG29	H24B-TG-RO-PG21 H24B-TG-RO-PG29 H24B-TG-RO-M25 H24B-TG-RO-M32	T1320240121-000 T1320240129-000 T1320240125-000 T1320240132-000						
	High construction 	M25 M32 M40	PG21 PG29	H24B-TGH-RO-PG21 H24B-TGH-RO-PG29 H24B-TGH-RO-M25 H24B-TGH-RO-M32 H24B-TGH-RO-M40	T1340240121-000 T1340240129-000 T1340240125-000 T1340240132-000 T1340240140-000						
Cable-to-cable hood											
	<table><tr><th>Construction</th><th>H</th></tr><tr><td>Low</td><td>62.5</td></tr><tr><td>High</td><td>78.5</td></tr></table>	Construction	H	Low	62.5	High	78.5	Low construction M25 M32 High construction M25 M32 M40	PG21 PG29 PG21 PG29	H24B-TBF-LB-PG21 H24B-TBF-LB-PG29 H24B-TBF-LB-M25 H24B-TBF-LB-M32 H24B-TBFH-LB-PG21 H24B-TBFH-LB-PG29 H24B-TBFH-LB-M25 H24B-TBFH-LB-M32 H24B-TBFH-LB-M40	T1730242121-000 T1730242129-000 T1730242125-000 T1730242132-000 T1770243121-000 T1770243129-000 T1770243125-000 T1770243132-000 T1770243140-000
Construction	H										
Low	62.5										
High	78.5										
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 <table border="1"><tr><td>Construction</td><td>H</td></tr><tr><td>Low</td><td>56</td></tr><tr><td>High</td><td>81</td></tr></table>	Construction	H	Low	56	High	81	M20 M25 M20 M25 M25 M32 M25 M32	PG16 PG21 PG16 PG21 PG21 PG29 PG21 PG29	H24B-SGR-LB-PG16 H24B-SGR-LB-PG21 H24B-SGR-LB-M20 H24B-SGR-LB-M25 H24B-SGR-LB-2PG16 H24B-SGR-LB-2PG21 H24B-SGR-LB-2M20 H24B-SGR-LB-2M25 H24B-SGRH-LB-PG21 H24B-SGRH-LB-PG29 H24B-SGRH-LB-M25 H24B-SGRH-LB-M32 H24B-SGRH-LB-2PG21 H24B-SGRH-LB-2PG29 H24B-SGRH-LB-2M25 H24B-SGRH-LB-2M32	T1610243116-000 T1610243121-000 T1610243120-000 T1610243125-000 T1610243216-000 T1610243221-000 T1610243220-000 T1610243225-000 T1650243121-000 T1650243129-000 T1650243125-000 T1650243132-000 T1650243221-000 T1650243229-000 T1650243225-000 T1650243232-000
Construction	H										
Low	56										
High	81										
	With protection cover 1 Side entry Low construction 2 Side entry  1 Side entry High construction 2 Side entry <table border="1"><tr><td>Construction</td><td>H</td></tr><tr><td>Low</td><td>56</td></tr><tr><td>High</td><td>81</td></tr></table>	Construction	H	Low	56	High	81	M20 M25 M20 M25 M25 M32 M25 M32	PG16 PG21 PG16 PG21 PG21 PG29 PG21 PG29	H24B-SDR-LB-PG16 H24B-SDR-LB-PG21 H24B-SDR-LB-M20 H24B-SDR-LB-M25 H24B-SDR-LB-2PG16 H24B-SDR-LB-2PG21 H24B-SDR-LB-2M20 H24B-SDR-LB-2M25 H24B-SDRH-LB-PG21 H24B-SDRH-LB-PG29 H24B-SDRH-LB-M25 H24B-SDRH-LB-M32 H24B-SDRH-LB-2PG21 H24B-SDRH-LB-2PG29 H24B-SDRH-LB-2M25 H24B-SDRH-LB-2M32	T1620243116-000 T1620243121-000 T1620243120-000 T1620243125-000 T1620243216-000 T1620243221-000 T1620243220-000 T1620243225-000 T1660243121-000 T1660243129-000 T1660243125-000 T1660243132-000 T1660243221-000 T1660243229-000 T1660243225-000 T1660243232-000
Construction	H										
Low	56										
High	81										

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

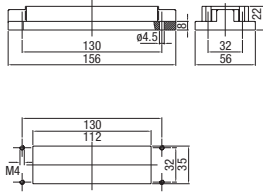
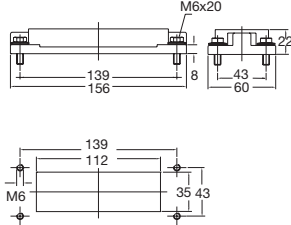
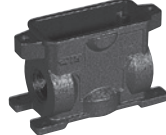
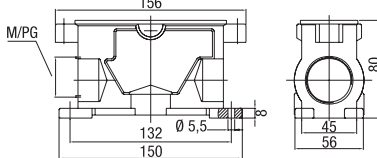
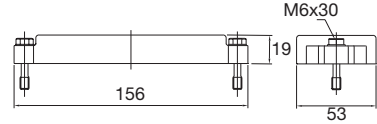
HIP: Pressure-tight, silver-grey

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

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

Pressure-tight up to 5 bar

IP 68 / IP 69 K

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

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

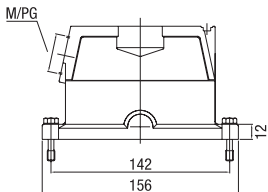
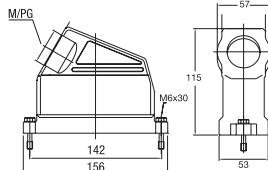
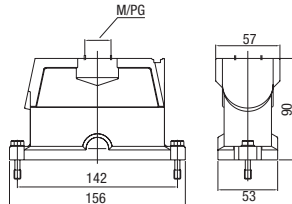
HIP: Pressure-tight, silver-grey

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

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

Pressure-tight up to 5 bar

IP 68 / IP 69 K

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

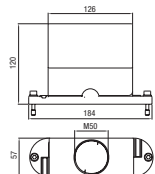
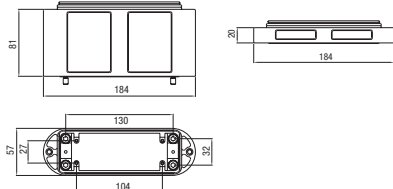
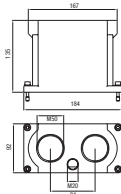
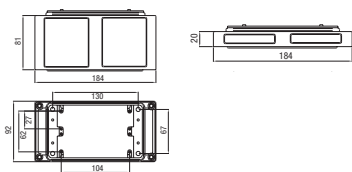
HF-HIP-K 8/HF-EMV-K 8, HF-HIP-K 12/HF-EMV-K 12 housings

HIP: Pressure-tight, silver-grey

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

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

Screw lock on hood

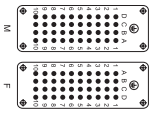
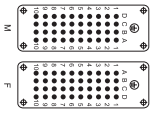
Description		Metr.	PG	Type	Part Number
Hood					
		1xM50 1xM50 2xM40 2xM40		HF-HIP-K.8.Sto.1.M50G HF.8.EMV-K.8.Sto.1.M50G HF.HIP-K.8.Sto.2.M40G HF.EMV-K.8.Sto.2.M40G	O-1102839-4 O-1102839-3 O-1102839-2 O-1102839-1
Housing bottom					
		Height		HF-HIP-K.8.AG.N HF-EMV-K.8.AG.N HF-HIP-K.8.AG HF-EMV-K.8.AG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

HD-080 inserts

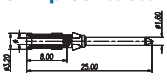
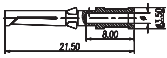
INSERTS FOR H32B HOOD/HOUSING

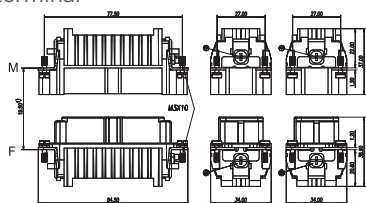
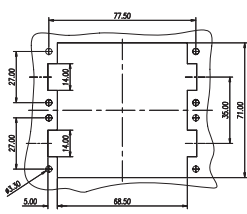
250V 10A

80 (2x40)+ $\oplus$ (machined contacts)

Dimensions (mm)		Type	Part Number	
			Male insert	Female insert
Crimp terminal (order crimp contacts separately)	Contact arrangement view from termination side			
		HD-040-M(1-40) HD-040-M(41-80)	T2020402101-000 T2020802101-000	
		HD-040-F(1-40) HD-040-F(41-80)		T2020402201-000 T2020802201-000

10A Contact

Tech data Material: copper alloy Contact resistance: $\leq 3\text{m}\Omega$ Terminal: crimp connection CDM/Male	10A Male crimp contacts 	Wire gauge		Strip- ping length	Crimp contacts, silver-plated		Crimp contacts, gold-plated	
		mm ²	AWG		Type	Part Number	Type	Part Number
		0.14-0.37	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
	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

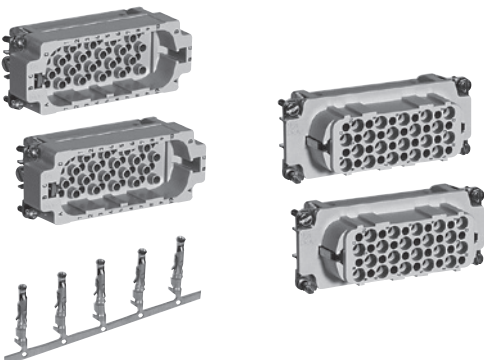
Distance for contact max. 24mm	Panel cut-out for inserts for use without hoods/housings
Crimp terminal 	

HD-080 inserts

INSERTS FOR H32B HOOD/HOUSING

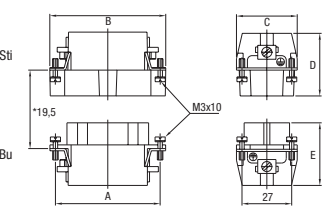
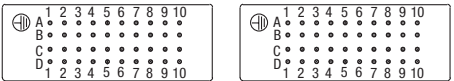
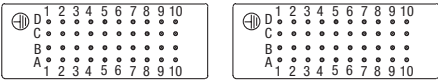
250V 10A

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

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

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

Suitable crimp contacts and crimping tools: see page 111

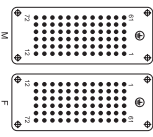
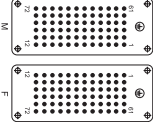
Dimensions (mm)	Contact arrangement	
	Male insert	Female insert
		

HDD-144 inserts

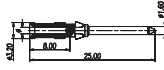
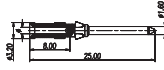
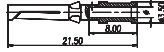
INSERTS FOR H32B HOOD/HOUSING

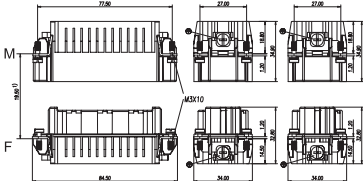
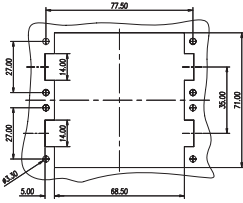
250V 10A

144 (2x72)+⊕ (machined contacts)

Dimensions (mm)		Type	Part Number	
			Male insert	Female insert
Crimp terminal (order crimp contacts separately)	Contact arrangement view from termination side			
		HDD-072-M(1-72) HDD-072-M(73-144)	T2030722101-000 T2031442101-000	
		HDD-072-F(1-72) HDD-072-F(73-144)		T2030722201-000 T2031442201-000

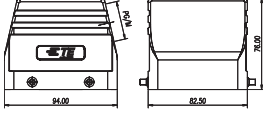
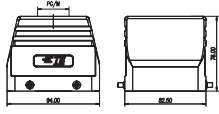
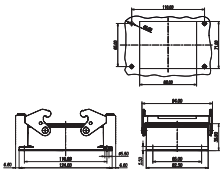
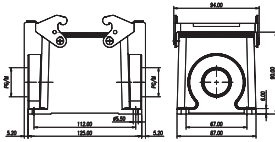
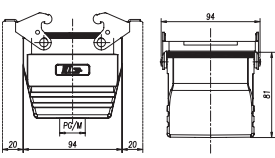
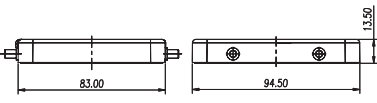
10A Contact

Tech data Material: copper alloy Contact resistance: $\leq 3\text{m}\Omega$ Terminal: crimp connection CDM/Male	10A Male crimp contacts 	Wire gauge		Strip- ping length	Crimp contacts, silver-plated		Crimp contacts, gold-plated	
		mm ²	AWG		Type	Part Number	Type	Part Number
		0.14-0.37	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

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

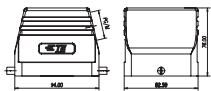
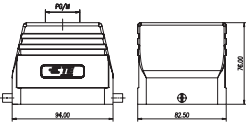
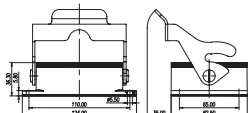
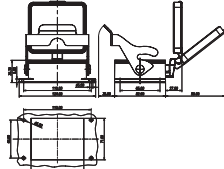
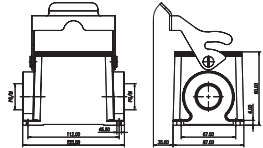
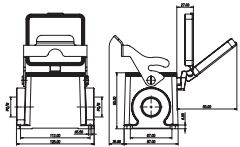
H32B with 2 levers on the hoods/housings

POWDER-COATED, RAL 7037

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

H32B with 1 lever on the hoods/housings

POWDER-COATED, RAL 7037

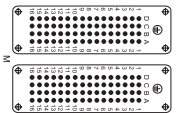
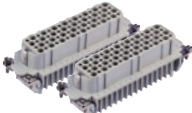
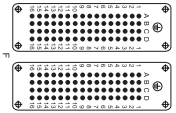
Dimensions (mm)	Metr.	PG	Type	Part Number
Hood: Side entry				
 	M32 M40	PG29 PG36	H32B-TS-RO-PG29 H32B-TS-RO-PG36 H32B-TS-RO-M32 H32B-TS-RO-M40	T1310320129-000 T1310320136-000 T1310320132-000 T1310320140-000
Hood: Top entry				
 	M25 M32 M40 M50	PG21 PG29 PG36 PG42	H32B-TG-RO-PG21 H32B-TG-RO-PG29 H32B-TG-RO-PG36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

HD-128 inserts

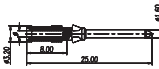
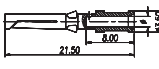
INSERTS FOR H48B HOOD/HOUSING

250V 10A

128 (2x64)+⊕ (machined contacts)

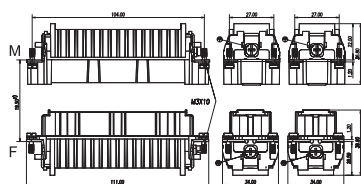
Dimensions (mm)		Type	Part Number	
			Male insert	Female insert
Crimp terminal (order crimp contacts separately)	Contact arrangement view from termination side			
		HD-O64-M(1-64) HD-O64-M(65-128)	T2020642101-000 T2021282101-000	
		HD-O64-F(1-64) HD-O64-F(65-128)		T2020642201-000 T2021282201-000

10A Contact

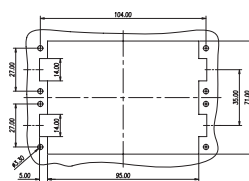
Tech data Material: copper alloy Contact resistance: $\leq 3\text{m}\Omega$ Terminal: crimp connection CDM/Male 	10A Male crimp contacts 	Wire gauge		Strip-ping length	Crimp contacts, silver-plated		Crimp contacts, gold-plated	
		mm ²	AWG		Type	Part Number	Type	Part Number
	10A Female crimp contacts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

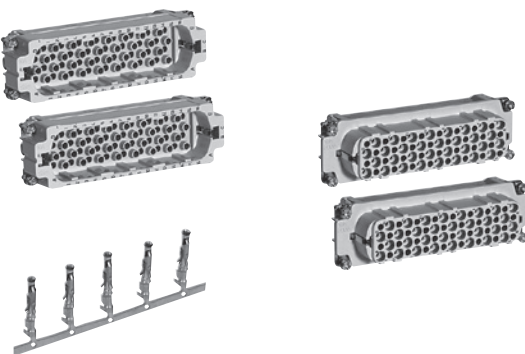


HD.128/HEE 92 contact inserts

INSERTS FOR H48B HOOD/HOUSING

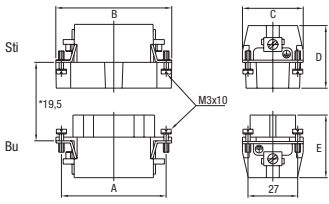
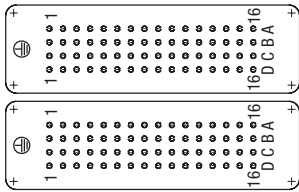
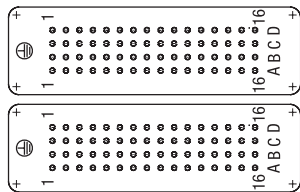
250V 10A

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

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

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

Suitable crimp contacts and crimping tools: see page 111

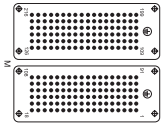
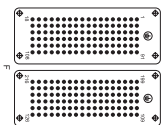
Dimensions (mm)	Contact arrangement	
	Male insert	Female insert
		

HDD-216 inserts

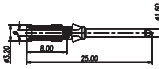
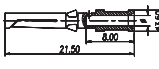
INSERTS FOR H48B HOOD/HOUSING

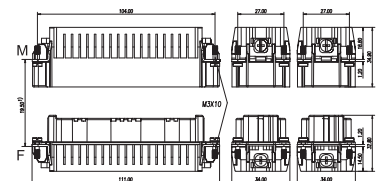
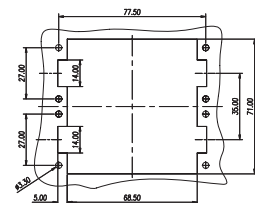
250V 10A

216 (2x108)+⊕ (machined contacts)

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

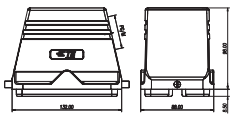
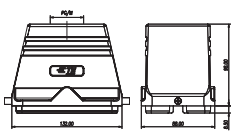
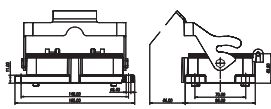
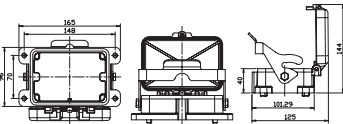
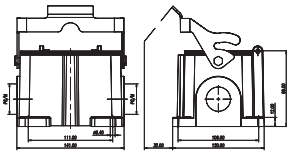
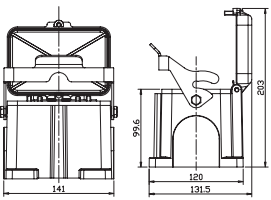
10A Contact

Tech data Material: copper alloy Contact resistance: $\leq 3\text{m}\Omega$ Terminal: crimp connection CDM/Male	10A Male crimp contacts 	Wire gauge		Strip- ping length	Crimp contacts, silver-plated		Crimp contacts, gold-plated	
		mm ²	AWG		Type	Part Number	Type	Part Number
		0.14-0.37	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

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

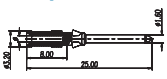
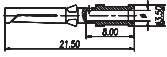
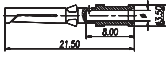
H48B hoods/housings

POWDER-COATED, RAL 7037

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

Crimp contacts HN.D series

10A Contact

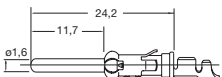
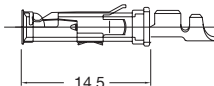
Tech data Material: copper alloy Contact resistance: $\leq 3\text{m}\Omega$ Terminal: crimp connection CDM/Male	10A Male crimp contacts 	Wire gauge		Strip- ping length mm	Crimp contacts, silver-plated		Crimp contacts, gold-plated	
		mm ²	AWG		Type	Part Number	Type	Part Number
		0.14-0.37	26-22	8.0	CDM-0.14	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 		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 Wire range: 0.5-4.0mm ² Suitable for CDM/CDF and CEM/CEF contacts		CRIMPBOX-0.5/4	T3100000001-000
Crimp tool Wire range: 0.14-4.0mm ² Suitable for CDM/CDF and CEM/CEF contacts with locator and die		RSZ.HE-HN.D-HVT	1-1105851-8
Removal tools Used for CDM/CDF contact series		REMOV-HD	T3100000003-000
M3 screw driver Used for HA/HE inserts		SCREWD-M3	T3100000009-000

Crimp contacts HD.M series

10A Contact

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

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

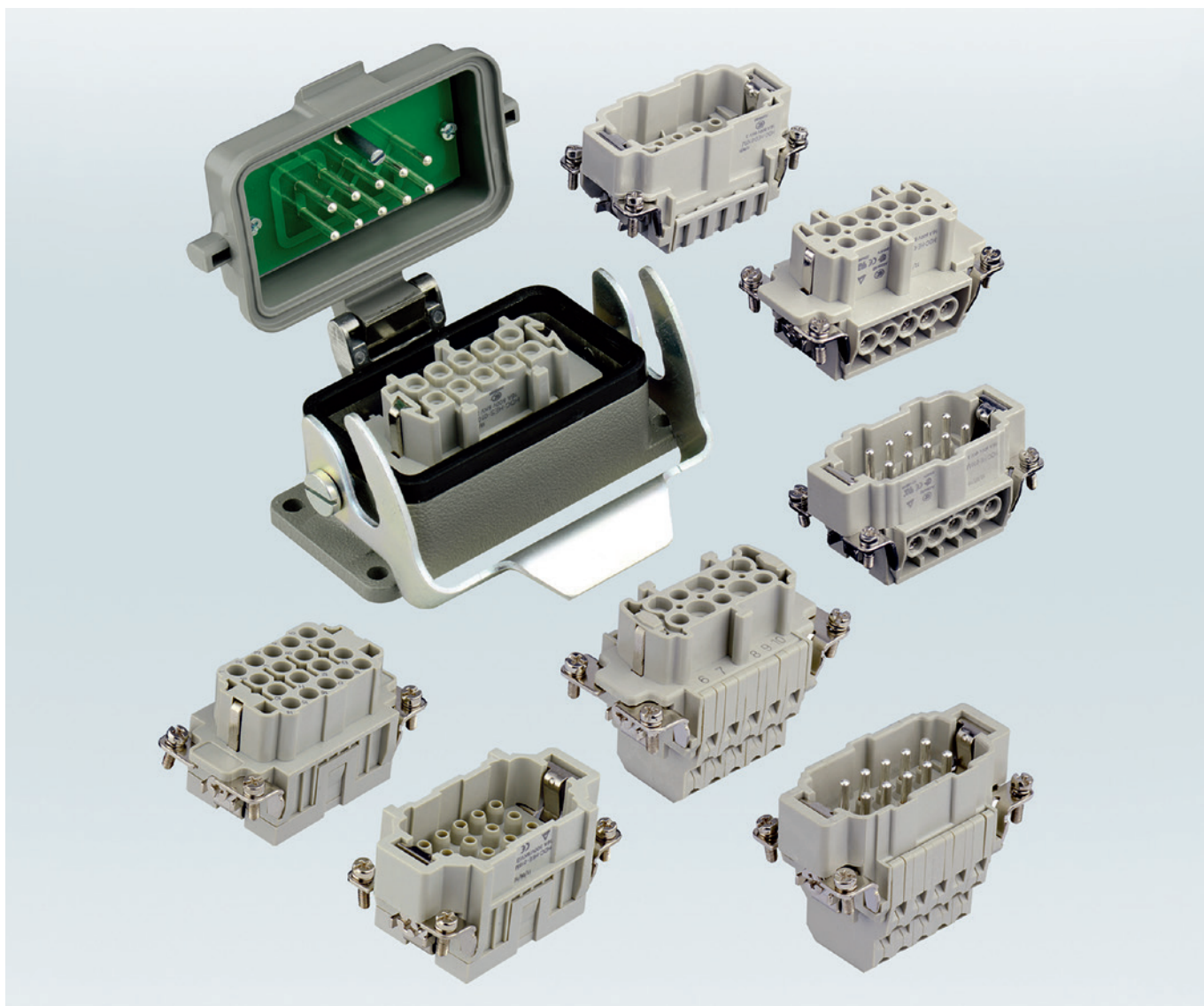
Crimping tools HD.M series

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

Notes

[illegible]

HE, HEE, HEEE Series



1. Specifications

DIN VDE 0110 Concerning clearance and creepage distances

DIN VDE 0627 Connectors and plug devices

2. Standards

DIN EN 60 664-1

DIN EN 61 984

3. Approvals



RoHS

HE technical characteristics

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

INSERTS

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

CONTACTS

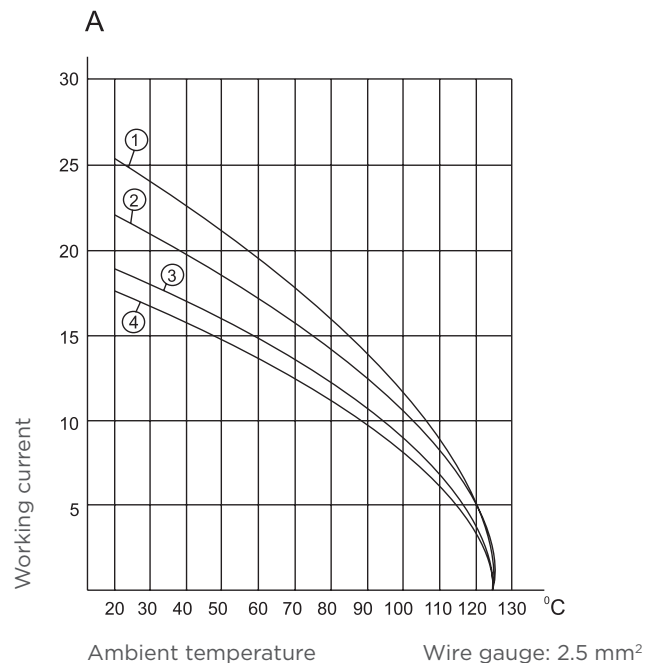
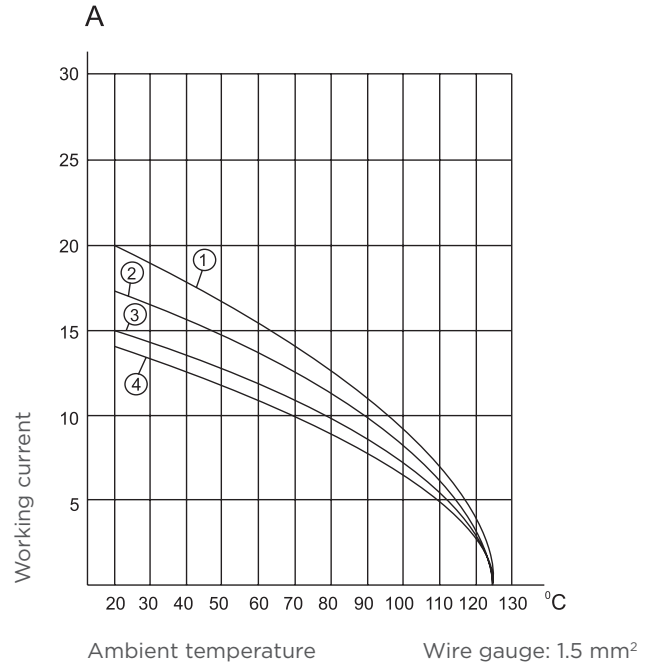
Material	Copper alloy
Surface	Hard silver-plated
.....	Hard gold-plated
Contact resistance	$\leq 1m\Omega$
Terminal	
.....	Crimp terminal
.....	Screw terminal
.....	Spring terminal
.....	Double Spring terminal
-mm ²	
Crimp terminal	0.14-4.0
Screw terminal	0.5-2.5
Spring terminal	0.5-2.5
Double Spring terminal.....	0.2-2.5
-AWG	
Crimp terminal	26-12
Screw terminal	20-14
Spring terminal	20-14
Double Spring terminal.....	26-14
- Tightening/test torque	0.5 Nm

HOODS, HOUSINGS

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

CURRENT CARRYING CAPACITY

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



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

HEE technical characteristics

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

INSERTS

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

CONTACTS

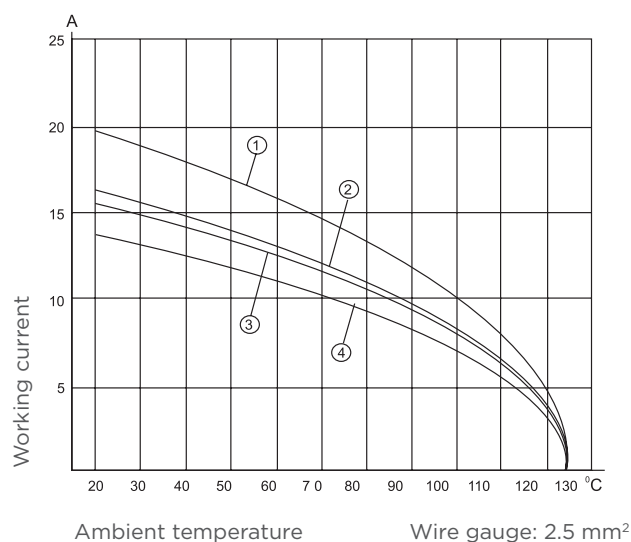
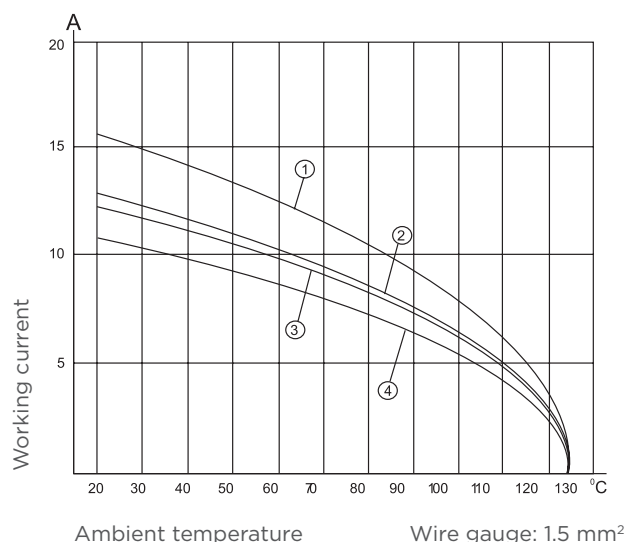
Material	Copper alloy
Surface	Hard silver-plated
.....	Hard gold-plated
Contact resistance	$\leq 1\text{m}\Omega$
Terminal	Crimp terminal
- mm ²	0.14-4.0mm ²
- AWG	26-12

HOODS, HOUSINGS

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

CURRENT CARRYING CAPACITY

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



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

HEEE technical characteristics

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

INSERTS

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

CONTACTS

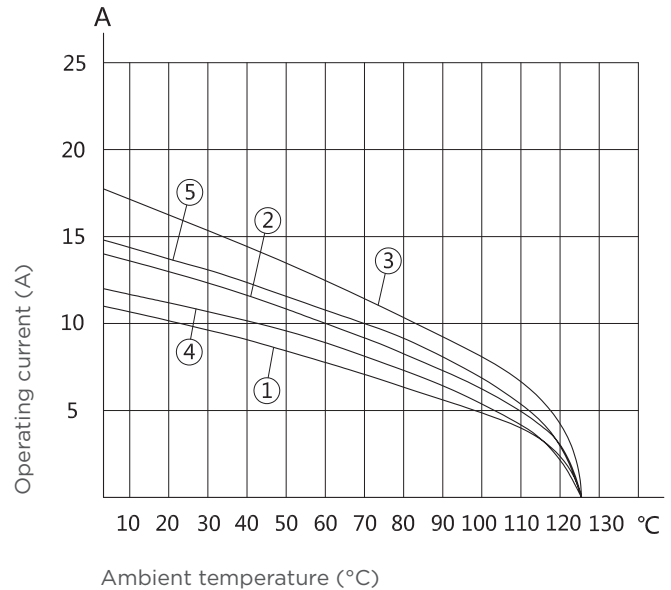
Material	Copper alloy
Surface	Hard silver-plated
.....	Hard gold-plated
Contact resistance	$\leq 5m\Omega$
Terminal	Crimp terminal
- mm ²	0.14-4.0mm ²
- AWG	26-12

HOODS, HOUSINGS

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

CURRENT CARRYING CAPACITY

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



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

HE-006 inserts

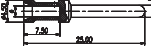
INSERTS FOR H6B HOOD/HOUSING

500V MAX. 16A

6+

Dimension (mm)	Type	Part Number	
		Male insert	Female insert
Screw terminal			
	HE-006-M	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

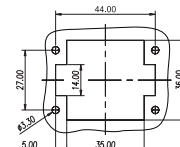
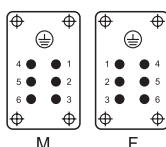
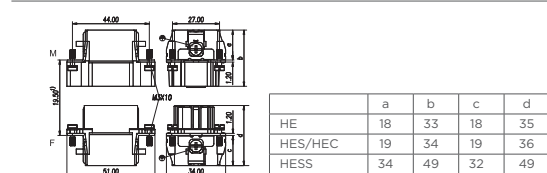
16A Contact

Tech data Material: copper alloy Contact resistance: $\leq 1\text{m}\Omega$ Terminal: crimp connection CEM/Male  CEF/Female 	16A Male crimp contacts 	Wire gauge		Stripping length mm	Crimp contacts, silver-plated		Crimp contacts, gold-plated	
		mm ²	AWG		Type	Part Number	Type	Part Number
		0.14-0.37	26-22	7.5	CEM-0.3	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

Contact arrangement view from termination side

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

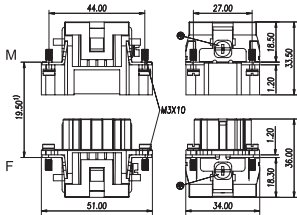
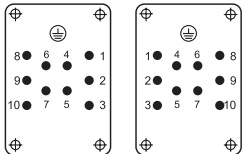
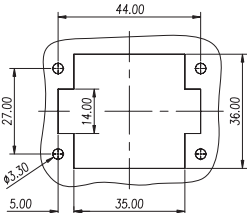


HEE-010 inserts

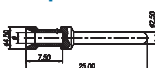
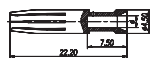
INSERTS FOR H6B HOOD/HOUSING

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		
 M F				

16A Contact

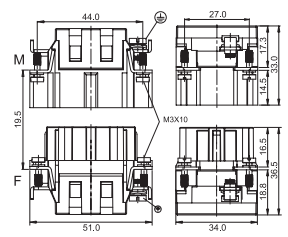
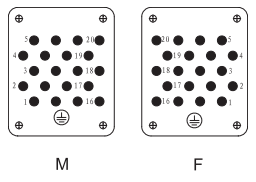
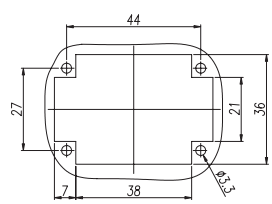
Tech data	16A Male crimp contacts	Wire gauge		Strip-ping length	Crimp contacts, silver-plated		Crimp contacts, gold-plated	
		mm ²	AWG		Type	Part Number	Type	Part Number
Material: copper alloy Contact resistance: ≤1mΩ Terminal: crimp connection CEM/Male 		0.14-0.37	26-22	7.5	CEM-0.3	T2030001002-000	DEM-0.3	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

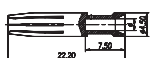
INSERTS FOR H6B HOOD/HOUSING

400V MAX. 16A

20+ 

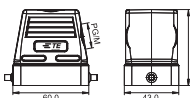
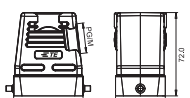
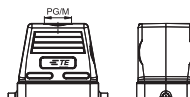
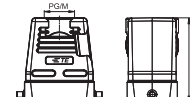
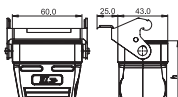
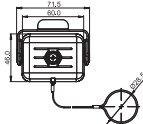
Dimensions (mm)		Type	Part Number	
			Male insert	Female insert
Crimp terminal (order crimp contacts separately)				
		HEEE-020-M	T2050202101-000	
		HEEE-020-F		T2050202201-000
Contact arrangement view from termination side	Panel cut out for inserts for use without hoods/housings			
				

16A Contact

Tech data	16A Male crimp contacts	Wire gauge		Strip-ping length	Crimp contacts, silver-plated		Crimp contacts, gold-plated	
		mm ²	AWG		Type	Part Number	Type	Part Number
Material: copper alloy Contact resistance: ≤1mΩ Terminal: crimp connection CEM/Male 		0.14-0.37	26-22	7.5	CEM-0.3	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

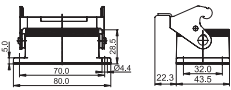
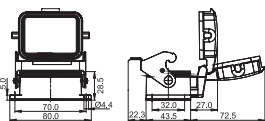
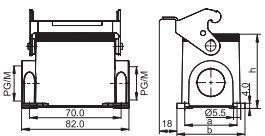
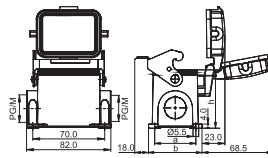
H6B with 1 lever on the hoods/housings

POWDER-COATED, RAL 7037

Dimensions (mm)		Metr.	PG	Type	Part Number						
Hood: Side entry											
	Low construction 	M20 M25	PG16 PG21	H6B-TS-PG16 H6B-TS-PG21 H6B-TS-M20 H6B-TS-M25	T1310060116-000 T1310060121-000 T1310060120-000 T1310060125-000						
	High construction 	M20 M25 M32	PG21 PG29	H6B-TSH-PG21 H6B-TSH-PG29 H6B-TSH-M20 H6B-TSH-M25 H6B-TSH-M32	T1330060121-000 T1330060129-000 T1330060120-000 T1330060125-000 T1330060132-000						
Hood: Top entry											
	Low construction 	M20 M25	PG16 PG21	H6B-TG-PG16 H6B-TG-PG21 H6B-TG-M20 H6B-TG-M25	T1320060116-000 T1320060121-000 T1320060120-000 T1320060125-000						
	High construction 	M20 M25 M32	PG21 PG29	H6B-TGH-PG21 H6B-TGH-PG29 H6B-TGH-M20 H6B-TGH-M25 H6B-TGH-M32	T1340060121-000 T1340060129-000 T1340060120-000 T1340060125-000 T1340060132-000						
Cable-to-cable hood											
	 <table><tr><th>Construction</th><th>H</th></tr><tr><td>Low</td><td>62.5</td></tr><tr><td>High</td><td>74.5</td></tr></table>	Construction	H	Low	62.5	High	74.5	Low construction M20 M25 High construction M20 M25 M32	PG16 PG21 PG29	H6B-TBFS-PG16 H6B-TBFS-M20 H6B-TBFS-M25 H6B-TBFHS-PG21 H6B-TBFHS-PG29 H6B-TBFHS-M20 H6B-TBFHS-M25 H6B-TBFHS-M32	T1730062116-000 T1730062120-000 T1730062125-000 T1770062121-000 T1770062129-000 T1770062120-000 T1770062125-000 T1770062132-000
Construction	H										
Low	62.5										
High	74.5										
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																	
	1 Side entry Low construction M20 M25 2 Side entry 1 Side entry High construction M20 M25 2 Side entry High construction M25 M32 M25 M32 <table><tr><th>Construction</th><th>A</th><th>B</th><th>H</th></tr><tr><td>Low</td><td>40</td><td>52</td><td>56</td></tr><tr><td>Hight</td><td>45</td><td>57</td><td>74</td></tr></table>	Construction	A	B	H	Low	40	52	56	Hight	45	57	74	PG16 PG21 PG16 PG21 PG21 PG29 PG21 PG29	H6B-SGRS-PG16 H6B-SGRS-PG21 H6B-SGRS-M20 H6B-SGRS-M25 H6B-SGRS-2PG16 H6B-SGRS-2PG21 H6B-SGRS-2M20 H6B-SGRS-2M25 H6B-SGRHS-PG21 H6B-SGRHS-PG29 H6B-SGRHS-M25 H6B-SGRHS-M32 H6B-SGRHS-2PG21 H6B-SGRHS-2PG29 H6B-SGRHS-2M25 H6B-SGRHS-2M32	T1610062116-000 T1610062121-000 T1610062120-000 T1610062125-000 T1610062216-000 T1610062221-000 T1610062220-000 T1610062225-000 T1650062121-000 T1650062129-000 T1650062125-000 T1650062132-000 T1650062221-000 T1650062229-000 T1650062225-000 T1650062232-000	
Construction	A	B	H														
Low	40	52	56														
Hight	45	57	74														
	With protection cover  <table><tr><th>Construction</th><th>A</th><th>B</th><th>H</th></tr><tr><td>Low</td><td>40</td><td>52</td><td>56</td></tr><tr><td>Hight</td><td>45</td><td>57</td><td>74</td></tr></table>	Construction	A	B	H	Low	40	52	56	Hight	45	57	74	Low construction 1 Side entry M20 M25 2 Side entry M20 M25 High construction 1 Side entry M25 M32 2 Side entry M25 M32	PG16 PG21 PG16 PG21 PG21 PG29 PG21 PG29	H6B-SDRS-PG16 H6B-SDRS-PG21 H6B-SDRS-M20 H6B-SDRS-M25 H6B-SDRS-2PG16 H6B-SDRS-2PG21 H6B-SDRS-2M20 H6B-SDRS-2M25 H6B-SDRHS-PG21 H6B-SDRHS-PG29 H6B-SDRHS-M25 H6B-SDRHS-M32 H6B-SDRHS-2PG21 H6B-SDRHS-2PG29 H6B-SDRHS-2M25 H6B-SDRHS-2M32	T1620062116-000 T1620062121-000 T1620062120-000 T1620062125-000 T1620062216-000 T1620062221-000 T1620062220-000 T1620062225-000 T1660062121-000 T1660062129-000 T1660062125-000 T1660062132-000 T1660062221-000 T1660062229-000 T1660062225-000 T1660062232-000
Construction	A	B	H														
Low	40	52	56														
Hight	45	57	74														

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

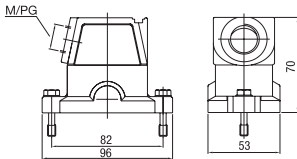
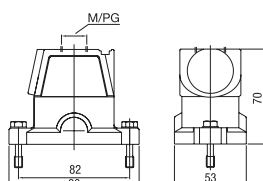
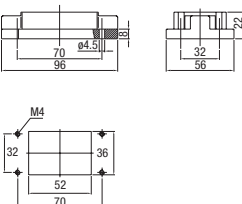
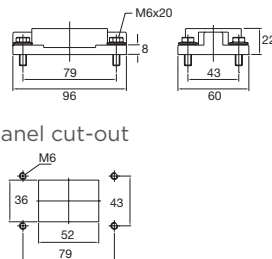
HIP: Pressure-tight, silver-grey

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

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

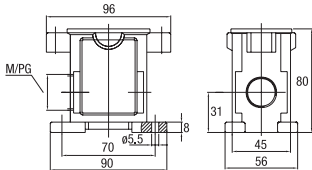
HIP: Pressure-tight, silver-grey

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

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

Screw lock on hood

IP 68 / IP 69 K

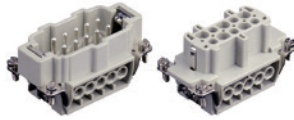
Description	Metr.	PG	Type	Part Number
Surface mounted housing: Side entry				
		2xM32	16 2x16 	

HE-010 inserts

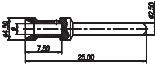
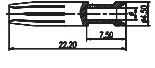
INSERTS FOR H10B HOOD/HOUSING

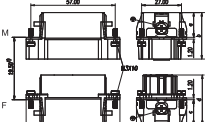
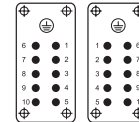
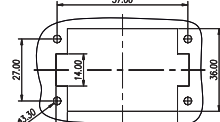
500V MAX. 16A

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 Material: copper alloy Contact resistance: ≤1mΩ Terminal: crimp connection CEM/Male 	16A Male crimp contacts 	Wire gauge		Strip- ping length	Crimp contacts, silver-plated		Crimp contacts, gold-plated	
		mm ²	AWG		Type	Part Number	Type	Part Number
CEF/Female 	16A Female crimp contacts 	0.14-0.37	26-22	7.5	CEM-0.3	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

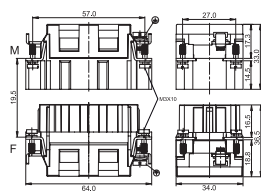
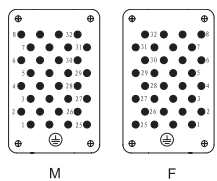
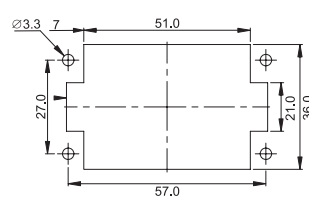
Distance for contact max. 21mm	Contact arrangement view from termination side	Panel cut-out for inserts for use without hoods/housings																				
<table><thead><tr><th></th><th>a</th><th>b</th><th>c</th><th>d</th></tr></thead><tbody><tr><td>HE</td><td>18</td><td>33</td><td>18</td><td>35</td>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

HEEE-032 inserts

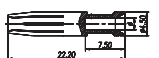
INSERTS FOR H10B HOOD/HOUSING

400V MAX. 16A

32+Ⓢ

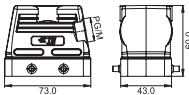
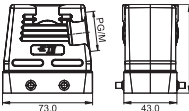
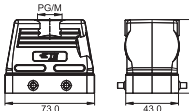
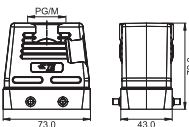
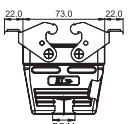
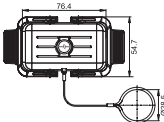
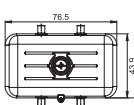
Dimensions (mm)		Type	Part Number	
			Male insert	Female insert
Crimp terminal (order crimp contacts separately)				
		HEEE-032-M	T2050323101-000	
		HEEE-032-F		T2050323201-000
Contact arrangement view from termination side		Panel cut out for inserts for use without hoods/housings		
				

16A Contact

Tech data	16A Male crimp contacts	Wire gauge		Strip-ping length	Crimp contacts, silver-plated		Crimp contacts, gold-plated	
		mm ²	AWG		Type	Part Number	Type	Part Number
Material: copper alloy Contact resistance: ≤1mΩ Terminal: crimp connection CEM/Male 		0.14-0.37	26-22	7.5	CEM-0.3	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

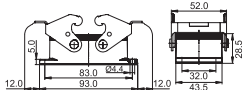
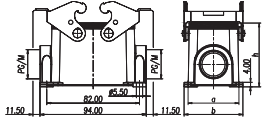
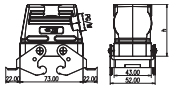
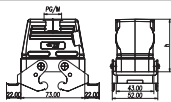
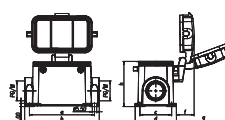
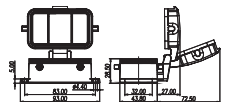
H10B with 2 levers on the hoods/housings

POWDER-COATED, RAL 7037

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

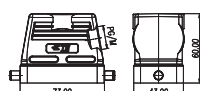
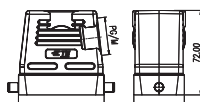
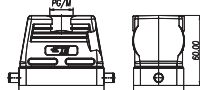
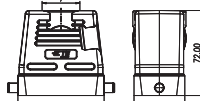
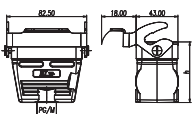
H10B with 2 levers on the hoods/housings

POWDER-COATED, RAL 7037

Dimensions (mm)	Metr.	PG	Type	Part Number																								
Bulkhead mounted																												
			H10B-AGS	T1410101000-000																								
Surface mounted: Side entry																												
	<table><tr><td>Construction</td><td>A</td><td>B</td><td>H</td></tr><tr><td>Low</td><td>40</td><td>52</td><td>56</td></tr><tr><td>Hight</td><td>45</td><td>57</td><td>74</td></tr></table> 1 Side entry Low construction M20 M25 2 Side entry M20 M25 1 Side entry High construction M25 M32 2 Side entry M25 M32	Construction	A	B	H	Low	40	52	56	Hight	45	57	74	PG16 PG21 PG16 PG21 PG21 PG29 PG21 PG29	H10B-SGRS-PG16 H10B-SGRS-PG21 H10B-SGRS-M20 H10B-SGRS-M25 H10B-SGRS-2PG16 H10B-SGRS-2PG21 H10B-SGRS-2M20 H10B-SGRS-2M25 H10B-SGRHS-PG21 H10B-SGRHS-PG29 H10B-SGRHS-M25 H10B-SGRHS-M32 H10B-SGRHS-2PG21 H10B-SGRHS-2PG29 H10B-SGRHS-2M25 H10B-SGRHS-2M32	T1440101116-000 T1440101121-000 T1440101120-000 T1440101125-000 T1440101216-000 T1440101221-000 T1440101220-000 T1440101225-000 T1470101121-000 T1470101129-000 T1470101125-000 T1470101132-000 T1470101221-000 T1470101229-000 T1470101225-000 T1470101232-000												
Construction	A	B	H																									
Low	40	52	56																									
Hight	45	57	74																									
Side entry housing with two levers																												
	<table><tr><td>Construction</td><td>H</td></tr><tr><td>Low</td><td>60</td></tr><tr><td>Hight</td><td>72</td></tr></table> Low construction M20 M25 High construction M25 M32	Construction	H	Low	60	Hight	72	PG16 PG21 PG21 PG29	H10B-TSBS-PG16 H10B-TSBS-PG21 H10B-TSBS-M20 H10B-TSBS-M25 H10B-TSBHS-PG21 H10B-TSBHS-PG29 H10B-TSBHS-M25 H10B-TSBHS-M32	T1250103116-000 T1250103121-000 T1250103120-000 T1250103125-000 T1270103121-000 T1270103129-000 T1270103125-000 T1270103132-000																		
Construction	H																											
Low	60																											
Hight	72																											
Top entry housing with two levers																												
	<table><tr><td>Construction</td><td>H</td></tr><tr><td>Low</td><td>60</td></tr><tr><td>Hight</td><td>72</td></tr></table> Low construction M20 M25 High construction M25 M32	Construction	H	Low	60	Hight	72	PG16 PG21 PG21 PG29	H10B-TGBS-PG16 H10B-TGBS-PG21 H10B-TGBS-M20 H10B-TGBS-M25 H10B-TGBHS-PG21 H10B-TGBHS-PG29 H10B-TGBHS-M25 H10B-TGBHS-M32	T1260103116-000 T1260103121-000 T1260103120-000 T1260103125-000 T1280103121-000 T1280103129-000 T1280103125-000 T1280103132-000																		
Construction	H																											
Low	60																											
Hight	72																											
Bulkhead mounted with 4 bolts																												
 	With protection cover <table><tr><td>Construction</td><td>A</td><td>B</td><td>C</td><td>D</td><td>F</td><td>G</td><td>H</td></tr><tr><td>Low</td><td>82</td><td>94</td><td>40</td><td>52</td><td>22</td><td>67</td><td>54</td></tr><tr><td>Hight</td><td>82</td><td>94</td><td>45</td><td>57</td><td>20</td><td>65</td><td>74</td></tr></table> 1 Side entry Low construction M20 M25 2 Side entry M20 M25 1 Side entry High construction M25 M32 2 Side entry M25 M32	Construction	A	B	C	D	F	G	H	Low	82	94	40	52	22	67	54	Hight	82	94	45	57	20	65	74	PG16 PG21 PG16 PG21 PG21 PG29 PG21 PG29	H10B-AD-BO H10B-SDR-BO-PG16 H10B-SDR-BO-PG21 H10B-SDR-BO-M20 H10B-SDR-BO-M25 H10B-SDR-BO-2PG16 H10B-SDR-BO-2PG21 H10B-SDR-BO-2M20 H10B-SDR-BO-2M25 H10B-SDRH-BO-PG21 H10B-SDRH-BO-PG29 H10B-SDRH-BO-M25 H10B-SDRH-BO-M32 H10B-SDRH-BO-2PG21 H10B-SDRH-BO-2PG29 H10B-SDRH-BO-2M25 H10B-SDRH-BO-2M32	T1430100000-000 T1460100116-000 T1460100121-000 T1460100120-000 T1460100125-000 T1460100216-000 T1460100221-000 T1460100220-000 T1460100225-000 T1490100121-000 T1490100129-000 T1490100125-000 T1490100132-000 T1490100221-000 T1490100229-000 T1490100225-000 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																					

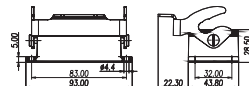
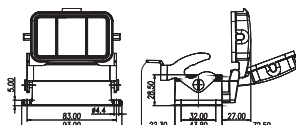
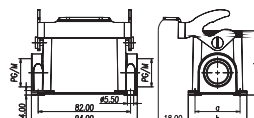
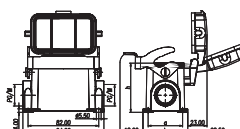
H10B with 1 lever on the hoods/housings

POWDER-COATED, RAL 7037

Dimensions (mm)		Metr.	PG	Type	Part Number						
Hood: Side entry											
	Low construction 	M20 M25	PG16 PG21	H10B-TS-RO-PG16 H10B-TS-RO-PG21 H10B-TS-RO-M20 H10B-TS-RO-M25	T1310100116-000 T1310100121-000 T1310100120-000 T1310100125-000						
	High construction 	M20 M25 M32	PG21 PG29	H10B-TSH-RO-PG21 H10B-TSH-RO-PG29 H10B-TSH-RO-M20 H10B-TSH-RO-M25 H10B-TSH-RO-M32	T1330100121-000 T1330100129-000 T1330100120-000 T1330100125-000 T1330100132-000						
Hood: Top entry											
	Low construction 	M20 M25	PG16 PG21	H10B-TG-RO-PG16 H10B-TG-RO-PG21 H10B-TG-RO-M20 H10B-TG-RO-M25	T1320100116-000 T1320100121-000 T1320100120-000 T1320100125-000						
	High construction 	M20 M25 M32	PG21 PG29	H10B-TGH-RO-PG21 H10B-TGH-RO-PG29 H10B-TGH-RO-M20 H10B-TGH-RO-M25 H10B-TGH-RO-M32	T1340100121-000 T1340100129-000 T1340100120-000 T1340100125-000 T1340100132-000						
Cable-to-cable hood											
	<table><tr><th>Construction</th><th>H</th></tr><tr><td>Low</td><td>62.5</td></tr><tr><td>High</td><td>74.5</td></tr></table>	Construction	H	Low	62.5	High	74.5	M20 M25 M25 M32	PG16 PG21 PG29	H10B-TBF-LB-PG16 H10B-TBF-LB-M20 H10B-TBF-LB-M25 H10B-TBFH-LB-PG21 H10B-TBFH-LB-PG29 H10B-TBFH-LB-M25 H10B-TBFH-LB-M32	T1730103116-000 T1730103120-000 T1730103125-000 T1770103121-000 T1770103129-000 T1770103125-000 T1770103132-000
Construction	H										
Low	62.5										
High	74.5										
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 H10B-ADM-LB	T1510103000-000 T1510103001-000												
Surface mounted: Side entry																
	1 Side entry Low construction 2 Side entry High construction  <table><tr><th>Construction</th><th>A</th><th>B</th><th>H</th></tr><tr><td>Low</td><td>40</td><td>52</td><td>54</td></tr><tr><td>Hight</td><td>45</td><td>57</td><td>74</td></tr></table>	Construction	A	B	H	Low	40	52	54	Hight	45	57	74	M20 M25 M20 M25 M25 M32 M25 M32 PG16 PG21 PG16 PG21 PG21 PG29 PG21 PG29	H10B-SGR-LB-PG16 H10B-SGR-LB-PG21 H10B-SGR-LB-M20 H10B-SGR-LB-M25 H10B-SGR-LB-2PG16 H10B-SGR-LB-2PG21 H10B-SGR-LB-2M20 H10B-SGR-LB-2M25 H10B-SGRH-LB-PG21 H10B-SGRH-LB-PG29 H10B-SGRH-LB-M25 H10B-SGRH-LB-M32 H10B-SGRH-LB-2PG21 H10B-SGRH-LB-2PG29 H10B-SGRH-LB-2M25 H10B-SGRH-LB-2M32	T1610103116-000 T1610103121-000 T1610103120-000 T1610103125-000 T1610103216-000 T1610103221-000 T1610103220-000 T1610103225-000 T1650103121-000 T1650103129-000 T1650103125-000 T1650103132-000 T1650103221-000 T1650103229-000 T1650103225-000 T1650103232-000
Construction	A	B	H													
Low	40	52	54													
Hight	45	57	74													
	With protection cover  <table><tr><th>Construction</th><th>A</th><th>B</th><th>H</th></tr><tr><td>Low</td><td>40</td><td>52</td><td>54</td></tr><tr><td>Hight</td><td>45</td><td>57</td><td>74</td></tr></table>	Construction	A	B	H	Low	40	52	54	Hight	45	57	74	1 Side entry Low construction 2 Side entry High construction M20 M25 M20 M25 M25 M32 M25 M32 PG16 PG21 PG16 PG21 PG21 PG29 PG21 PG29	H10B-SDR-LB-PG16 H10B-SDR-LB-PG21 H10B-SDR-LB-M20 H10B-SDR-LB-M25 H10B-SDR-LB-2PG16 H10B-SDR-LB-2PG21 H10B-SDR-LB-2M20 H10B-SDR-LB-2M25 H10B-SDRH-LB-PG21 H10B-SDRH-LB-PG29 H10B-SDRH-LB-M25 H10B-SDRH-LB-M32 H10B-SDRH-LB-2PG21 H10B-SDRH-LB-2PG29 H10B-SDRH-LB-2M25 H10B-SDRH-LB-2M32	T1620103116-000 T1620103121-000 T1620103120-000 T1620103125-000 T1620103216-000 T1620103221-000 T1620103220-000 T1620103225-000 T1660103121-000 T1660103129-000 T1660103125-000 T1660103132-000 T1660103221-000 T1660103229-000 T1660103225-000 T1660103232-000
Construction	A	B	H													
Low	40	52	54													
Hight	45	57	74													

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

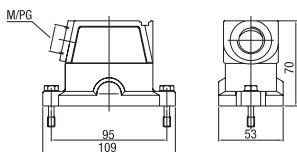
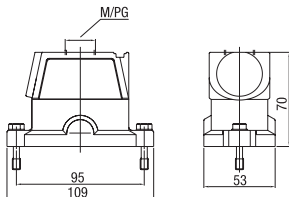
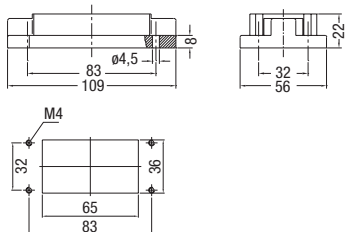
HIP: Pressure-tight, silver-grey

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

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

Pressure-tight up to 5 bar

IP 68 / IP 69 K

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

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

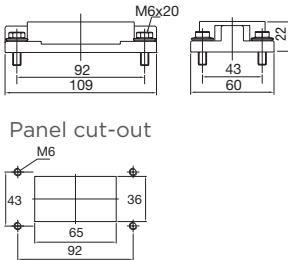
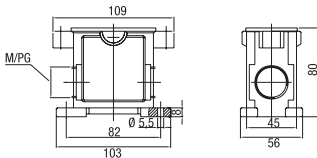
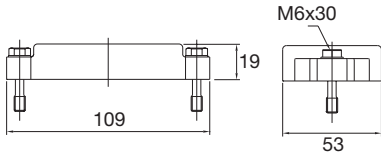
HIP: Pressure-tight, silver-grey

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

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

Pressure-tight up to 5 bar

IP 68 / IP 69 K

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

HE-016 inserts

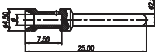
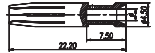
INSERTS FOR H16B HOOD/HOUSING

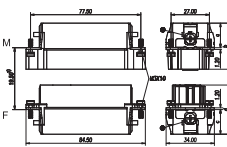
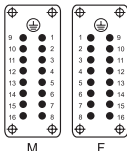
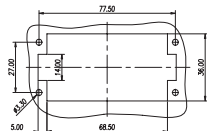
500V MAX. 16A

16+ 

Dimension (mm)	Type	Part Number	
		Male insert	Female insert
Screw terminal			
	HE-016-M	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 Material: copper alloy Contact resistance: $\leq 1\text{m}\Omega$ Terminal: crimp connection CEM/Male 	16A Male crimp contacts 	Wire gauge		Strip- ping length	Crimp contacts, silver-plated		Crimp contacts, gold-plated	
		mm ²	AWG		Type	Part Number	Type	Part Number
CEF/Female 	16A Female crimp contacts 	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

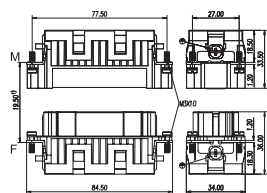
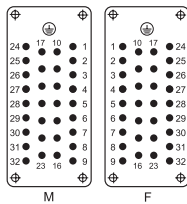
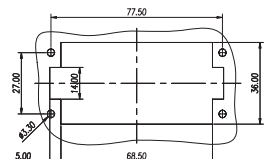
Distance for contact max. 21mm	Contact arrangement view from termination side	Panel cut-out for inserts for use without hoods/housings																				
<table><thead><tr><th></th><th>a</th><th>b</th><th>c</th><th>d</th></tr></thead><tbody><tr><td>HE</td><td>18</td><td>33</td><td>18</td><td>35</td>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

HEE-032 inserts

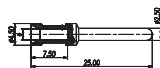
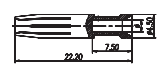
INSERTS FOR H16B HOOD/HOUSING

500V MAX. 16A

32+⊕

Dimensions (mm)		Type	Part Number	
			Male insert	Female insert
Crimp terminal (order crimp contacts separately)				
		HEE-032-M	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

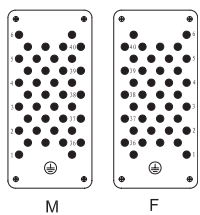
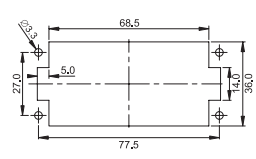
Tech data	16A Male crimp contacts	Wire gauge		Strip-ping length	Crimp contacts, silver-plated		Crimp contacts, gold-plated	
		mm ²	AWG		Type	Part Number	Type	Part Number
Material: copper alloy Contact resistance: ≤1mΩ Terminal: crimp connection CEM/Male 		0.14-0.37	26-22	7.5	CEM-0.3	T2030001002-000	DEM-0.3	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

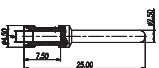
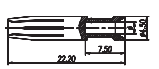
INSERTS FOR H16B HOOD/HOUSING

500V MAX. 16A

40+ 

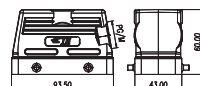
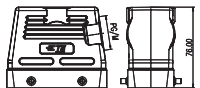
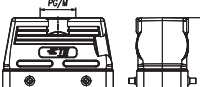
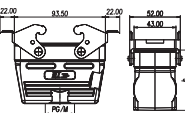
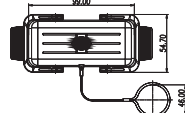
Dimensions (mm)	Type	Part Number	
		Male insert	Female insert
Crimp terminal (order crimp contacts separately)			
	HEEE-040-M	T2050402101-000	
	HEEE-040-F		T2050402201-000
Contact arrangement view from termination side 	Panel cut out for inserts for use without hoods/housings 		

16A Contact

Tech data Material: copper alloy Contact resistance: $\leq 1\text{m}\Omega$ Terminal: crimp connection CEM/Male 	16A Male crimp contacts 	Wire gauge		Strip-ping length mm	Crimp contacts, silver-plated		Crimp contacts, gold-plated	
		mm ²	AWG		Type	Part Number	Type	Part Number
		0.14-0.37	26-22	7.5	CEM-0.3	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

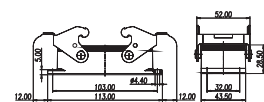
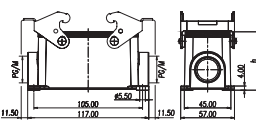
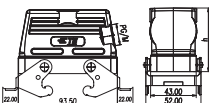
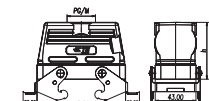
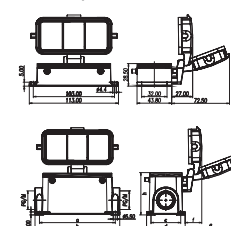
H16B with 2 levers on the hoods/housings

POWDER-COATED, RAL 7037

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

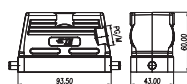
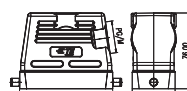
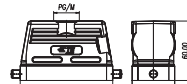
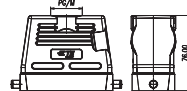
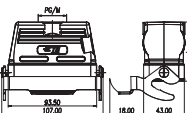
H16B with 2 levers on the hoods/housings

POWDER-COATED, RAL 7037

Dimensions (mm)	Metr.	PG	Type	Part Number																								
Bulkhead mounted																												
			H16B-AGS	T1410161000-000																								
Surface mounted: Side entry																												
	 <table><tr><td>Construction</td><td>H</td></tr><tr><td>Low</td><td>56</td></tr><tr><td>Hight</td><td>81</td></tr></table>	Construction	H	Low	56	Hight	81	1 Side entry 2 Side entry Low construction High construction M25 M25 M25 M32 M25 M32	PG21 PG21 PG21 PG29 PG21 PG29 H16B-SGRS-PG21 H16B-SGRS-M25 H16B-SGRS-2PG21 H16B-SGRS-2M25 H16B-SGRHS-PG21 H16B-SGRHS-PG29 H16B-SGRHS-M25 H16B-SGRHS-M32 H16B-SGRHS-2PG21 H16B-SGRHS-2PG29 H16B-SGRHS-2M25 H16B-SGRHS-2M32	T1440161121-000 T1440161125-000 T1440161221-000 T1440161225-000 T1470161121-000 T1470161129-000 T1470161125-000 T1470161132-000 T1470161221-000 T1470161229-000 T1470161225-000 T1470161232-000																		
Construction	H																											
Low	56																											
Hight	81																											
Side entry housing with two levers																												
	 <table><tr><td>Construction</td><td>H</td></tr><tr><td>Low</td><td>60</td></tr><tr><td>Hight</td><td>76</td></tr></table>	Construction	H	Low	60	Hight	76	Low construction High construction M20 M25 M25 M32	PG16 PG21 PG21 PG29 H16B-TSBS-PG16 H16B-TSBS-PG21 H16B-TSBS-M20 H16B-TSBS-M25 H16B-TSBHS-PG21 H16B-TSBHS-PG29 H16B-TSBHS-M25 H16B-TSBHS-M32	T1250163116-000 T1250163121-000 T1250163120-000 T1250163125-000 T1270163121-000 T1270163129-000 T1270163125-000 T1270163132-000																		
Construction	H																											
Low	60																											
Hight	76																											
Top entry housing with two levers																												
	 <table><tr><td>Construction</td><td>H</td></tr><tr><td>Low</td><td>60</td></tr><tr><td>Hight</td><td>76</td></tr></table>	Construction	H	Low	60	Hight	76	Low construction High construction M20 M25 M25 M32	PG16 PG21 PG21 PG29 H16B-TGBS-PG16 H16B-TGBS-PG21 H16B-TGBS-M20 H16B-TGBS-M25 H16B-TGBHS-PG21 H16B-TGBHS-PG29 H16B-TGBHS-M25 H16B-TGBHS-M32	T1260163116-000 T1260163121-000 T1260163120-000 T1260163125-000 T1280163121-000 T1280163129-000 T1280163125-000 T1280163132-000																		
Construction	H																											
Low	60																											
Hight	76																											
Bulkhead mounted with 4 bolts																												
 	With protection cover  <table><tr><td>Construction</td><td>A</td><td>B</td><td>C</td><td>D</td><td>F</td><td>G</td><td>H</td></tr><tr><td>Low</td><td>105</td><td>117</td><td>45</td><td>57</td><td>20</td><td>65</td><td>56</td></tr><tr><td>Hight</td><td>105</td><td>117</td><td>45</td><td>57</td><td>20</td><td>65</td><td>81</td></tr></table>	Construction	A	B	C	D	F	G	H	Low	105	117	45	57	20	65	56	Hight	105	117	45	57	20	65	81	1 Side entry 2 Side entry Low construction High construction M25 M25 M25 M32 M25 M32	PG21 PG21 PG21 PG29 PG21 PG29 H16B-AD-BO H16B-SDR-BO-PG21 H16B-SDR-BO-M25 H16B-SDR-BO-2PG21 H16B-SDR-BO-2M25 H16B-SDRH-BO-PG21 H16B-SDRH-BO-PG29 H16B-SDRH-BO-M25 H16B-SDRH-BO-M32 H16B-SDRH-BO-2PG21 H16B-SDRH-BO-2PG29 H16B-SDRH-BO-2M25 H16B-SDRH-BO-2M32	T1430160000-000 T1460160121-000 T1460160125-000 T1460160221-000 T1460160225-000 T1490160121-000 T1490160129-000 T1490160125-000 T1490160132-000 T1490160221-000 T1490160229-000 T1490160225-000 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																					

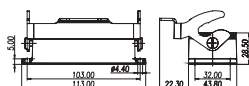
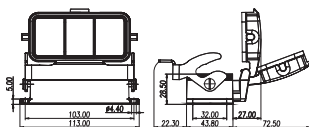
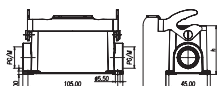
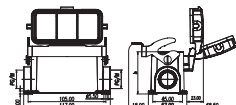
H16B with 1 lever on the hoods/housings

POWDER-COATED, RAL 7037

Dimensions (mm)		Metr.	PG	Type	Part Number						
Hood: Side entry											
	Low construction 	M25 M32	PG21 PG29	H16B-TS-RO-PG21 H16B-TS-RO-PG29 H16B-TS-RO-M25 H16B-TS-RO-M32	T1310160121-000 T1310160129-000 T1310160125-000 T1310160132-000						
	High construction 	M25 M32 M40	PG21 PG29	H16B-TSH-RO-PG21 H16B-TSH-RO-PG29 H16B-TSH-RO-M25 H16B-TSH-RO-M32 H16B-TSH-RO-M40	T1330160121-000 T1330160129-000 T1330160125-000 T1330160132-000 T1330160140-000						
Hood: Top entry											
	Low construction 	M25 M32	PG21 PG29	H16B-TG-RO-PG21 H16B-TG-RO-PG29 H16B-TG-RO-M25 H16B-TG-RO-M32	T1320160121-000 T1320160129-000 T1320160125-000 T1320160132-000						
	High construction 	M25 M32 M40	PG21 PG29	H16B-TGH-RO-PG21 H16B-TGH-RO-PG29 H16B-TGH-RO-M25 H16B-TGH-RO-M32 H16B-TGH-RO-M40	T1340160121-000 T1340160129-000 T1340160125-000 T1340160132-000 T1340160140-000						
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>	Construction	H	Low	62.5	Hight	74.5	Low construction M25 M32 High construction M25 M32 M40	PG21 PG29 PG21 PG29	H16B-TBF-LB-PG21 H16B-TBF-LB-PG29 H16B-TBF-LB-M25 H16B-TBF-LB-M32 H16B-TBFH-LB-PG21 H16B-TBFH-LB-PG29 H16B-TBFH-LB-M25 H16B-TBFH-LB-M32 H16B-TBFH-LB-M40	T1730163121-000 T1730163129-000 T1730163125-000 T1730163132-000 T1770163121-000 T1770163129-000 T1770163125-000 T1770163132-000 T1770163140-000
Construction	H										
Low	62.5										
Hight	74.5										
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  <table><tr><td>Construction</td><td>H</td></tr><tr><td>Low</td><td>56</td></tr><tr><td>High</td><td>81</td></tr></table> 2 Side entry M20 M25 M20 M25 1 Side entry High construction M25 M32 2 Side entry M25 M32	Construction	H	Low	56	High	81	PG16 PG21 PG16 PG21 PG21 PG29 PG21 PG29	H16B-SGR-LB-PG16 H16B-SGR-LB-PG21 H16B-SGR-LB-M20 H16B-SGR-LB-M25 H16B-SGR-LB-2PG16 H16B-SGR-LB-2PG21 H16B-SGR-LB-2M20 H16B-SGR-LB-2M25 H16B-SGRH-LB-PG21 H16B-SGRH-LB-PG29 H16B-SGRH-LB-M25 H16B-SGRH-LB-M32 H16B-SGRH-LB-2PG21 H16B-SGRH-LB-2PG29 H16B-SGRH-LB-2M25 H16B-SGRH-LB-2M32	T1610163116-000 T1610163121-000 T1610163120-000 T1610163125-000 T1610163216-000 T1610163221-000 T1610163220-000 T1610163225-000 T1650163121-000 T1650163129-000 T1650163125-000 T1650163132-000 T1650163221-000 T1650163229-000 T1650163225-000 T1650163232-000
Construction	H									
Low	56									
High	81									
	With protection cover 	1 Side entry Low construction M20 M25 M20 M25 1 Side entry High construction M25 M32 2 Side entry M25 M32	PG16 PG21 PG16 PG21 PG21 PG29 PG21 PG29	H16B-SDR-LB-PG16 H16B-SDR-LB-PG21 H16B-SDR-LB-M20 H16B-SDR-LB-M25 H16B-SDR-LB-2PG16 H16B-SDR-LB-2PG21 H16B-SDR-LB-2M20 H16B-SDR-LB-2M25 H16B-SDRH-LB-PG21 H16B-SDRH-LB-PG29 H16B-SDRH-LB-M25 H16B-SDRH-LB-M32 H16B-SDRH-LB-2PG21 H16B-SDRH-LB-2PG29 H16B-SDRH-LB-2M25 H16B-SDRH-LB-2M32	T1620163116-000 T1620163121-000 T1620163120-000 T1620163125-000 T1620163216-000 T1620163221-000 T1620163220-000 T1620163225-000 T1660163121-000 T1660163129-000 T1660163125-000 T1660163132-000 T1660163221-000 T1660163229-000 T1660163225-000 T1660163232-000					

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

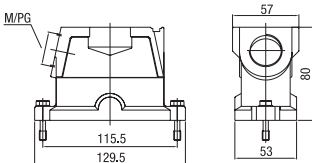
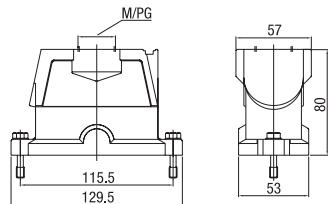
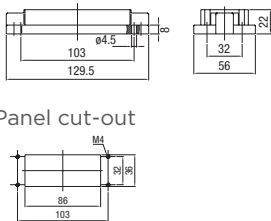
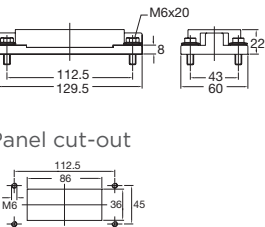
HIP: Pressure-tight, silver-grey

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

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

Pressure-tight up to 5 bar

IP 68 / IP 69 K

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

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

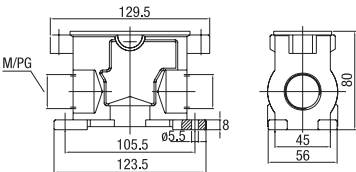
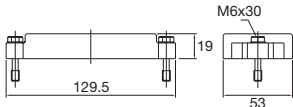
HIP: Pressure-tight, silver-grey

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

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

Pressure-tight up to 5 bar

IP 68 / IP 69 K

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

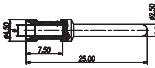
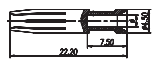
INSERTS FOR H24B HOOD/HOUSING

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

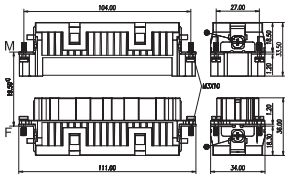
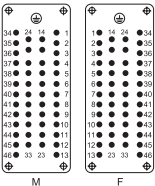
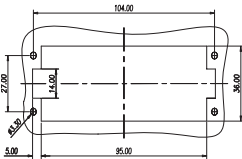
Tech data Material: copper alloy Contact resistance: ≤1mΩ Terminal: crimp connection CEM/Male	16A Male crimp contacts 	Wire gauge		Strip- ping length mm	Crimp contacts, silver-plated		Crimp contacts, gold-plated	
		mm ²	AWG		Type	Part Number	Type	Part Number
		0.14-0.37	26-22	7.5	CEM-0.3	T2030001002-000	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

HEE-046 inserts

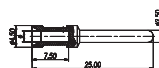
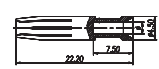
INSERTS FOR H24B HOOD/HOUSING

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

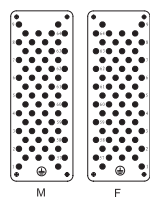
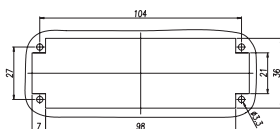
Tech data	16A Male crimp contacts	Wire gauge		Strip-ping length	Crimp contacts, silver-plated		Crimp contacts, gold-plated	
		mm ²	AWG		Type	Part Number	Type	Part Number
Material: copper alloy Contact resistance: ≤1mΩ Terminal: crimp connection CEM/Male 		0.14-0.37	26-22	7.5	CEM-0.3	T2030001002-000	DEM-0.3	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

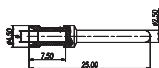
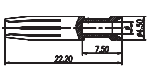
INSERTS FOR H24B HOOD/HOUSING

500V MAX. 16A

64+ (⊕)

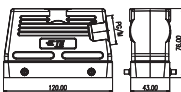
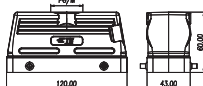
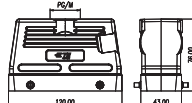
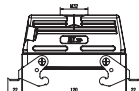
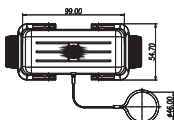
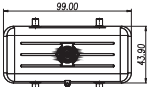
Dimensions (mm)	Type	Part Number	
		Male insert	Female insert
Crimp terminal (order crimp contacts separately)			
	HEEE-064-M	T2050643101-000	
	HEEE-064-F		T2050643201-000
Contact arrangement view from termination side	Panel cut out for inserts for use without hoods/housings		
			

16A Contact

Tech data Material: copper alloy Contact resistance: ≤1mΩ Terminal: crimp connection CEM/Male	16A Male crimp contacts 	Wire gauge		Strip- ping length mm	Crimp contacts, silver-plated		Crimp contacts, gold-plated	
		mm ²	AWG		Type	Part Number	Type	Part Number
		0.14-0.37	26-22	7.5	CEM-0.3	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

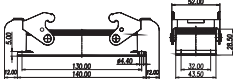
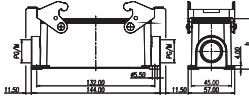
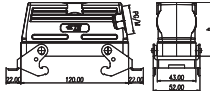
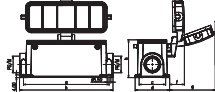
H24B with 2 levers on the hoods/housings

POWDER-COATED, RAL 7037

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

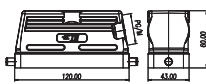
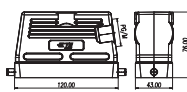
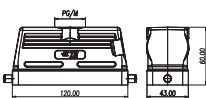
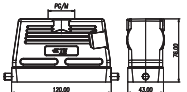
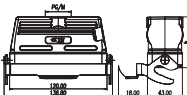
H24B with 2 levers on the hoods/housings

POWDER-COATED, RAL 7037

Dimensions (mm)		Metr.	PG	Type	Part Number																								
Bulkhead mounted																													
				H24B-AGS	T1410241000-000																								
Surface mounted: Side entry																													
	<table><tr><td>Construction</td><td>H</td></tr><tr><td>Low</td><td>56</td></tr><tr><td>High</td><td>81</td></tr></table> 1 Side entry Low construction 2 Side entry High construction	Construction	H	Low	56	High	81	M25 M25 M25 M32 M25 M32	PG21 PG21 PG21 PG29 PG21 PG29	H24B-SGRS-PG21 H24B-SGRS-M25 H24B-SGRS-2PG21 H24B-SGRS-2M25 H24B-SGRHS-PG21 H24B-SGRHS-PG29 H24B-SGRHS-M25 H24B-SGRHS-M32 H24B-SGRHS-2PG21 H24B-SGRHS-2PG29 H24B-SGRHS-2M25 H24B-SGRHS-2M32	T1440241121-000 T1440241125-000 T1440241221-000 T1440241225-000 T1470241121-000 T1470241129-000 T1470241125-000 T1470241132-000 T1470241221-000 T1470241229-000 T1470241225-000 T1470241232-000																		
Construction	H																												
Low	56																												
High	81																												
Side entry housing with two levers																													
	<table><tr><td>Construction</td><td>H</td></tr><tr><td>Low</td><td>60</td></tr><tr><td>High</td><td>76</td></tr></table> Low construction High construction	Construction	H	Low	60	High	76	M20 M25 M25 M32	PG16 PG21 PG21 PG29	H24B-TSBS-PG16 H24B-TSBS-PG21 H24B-TSBS-M20 H24B-TSBS-M25 H24B-TSBHS-PG21 H24B-TSBHS-PG29 H24B-TSBHS-M25 H24B-TSBHS-M32	T1250243116-000 T1250243121-000 T1250243120-000 T1250243125-000 T1270243121-000 T1270243129-000 T1270243125-000 T1270243132-000																		
Construction	H																												
Low	60																												
High	76																												
Top entry housing with two levers																													
	<table><tr><td>Construction</td><td>H</td></tr><tr><td>Low</td><td>60</td></tr><tr><td>High</td><td>76</td></tr></table> Low construction High construction	Construction	H	Low	60	High	76	M20 M25 M25 M32	PG16 PG21 PG21 PG29	H24B-TGBS-PG16 H24B-TGBS-PG21 H24B-TGBS-M20 H24B-TGBS-M25 H24B-TGBHS-PG21 H24B-TGBHS-PG29 H24B-TGBHS-M25 H24B-TGBHS-M32	T1260243116-000 T1260243121-000 T1260243120-000 T1260243125-000 T1280243121-000 T1280243129-000 T1280243125-000 T1280243132-000																		
Construction	H																												
Low	60																												
High	76																												
Bulkhead mounted with 4 bolts																													
 	With protection cover  <table><tr><td>Construction</td><td>A</td><td>B</td><td>C</td><td>D</td><td>F</td><td>G</td><td>H</td></tr><tr><td>Low</td><td>132</td><td>144</td><td>45</td><td>57</td><td>20</td><td>65</td><td>56</td></tr><tr><td>High</td><td>132</td><td>144</td><td>45</td><td>57</td><td>20</td><td>65</td><td>81</td></tr></table> 1 Side entry Low construction 2 Side entry High construction	Construction	A	B	C	D	F	G	H	Low	132	144	45	57	20	65	56	High	132	144	45	57	20	65	81	M25 M25 M25 M32 M25 M32	PG21 PG21 PG21 PG29 PG21 PG29	H24B-AD-BO H24B-SDR-BO-PG21 H24B-SDR-BO-M25 H24B-SDR-BO-2PG21 H24B-SDR-BO-2M25 H24B-SDRH-BO-PG21 H24B-SDRH-BO-PG29 H24B-SDRH-BO-M25 H24B-SDRH-BO-M32 H24B-SDRH-BO-2PG21 H24B-SDRH-BO-2PG29 H24B-SDRH-BO-2M25 H24B-SDRH-BO-2M32	T1430240000-000 T1460240121-000 T1460240125-000 T1460240221-000 T1460240225-000 T1490240121-000 T1490240129-000 T1490240125-000 T1490240132-000 T1490240221-000 T1490240229-000 T1490240225-000 T1490240232-000
Construction	A	B	C	D	F	G	H																						
Low	132	144	45	57	20	65	56																						
High	132	144	45	57	20	65	81																						

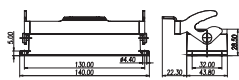
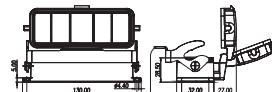
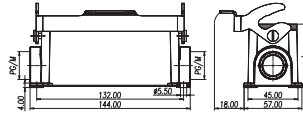
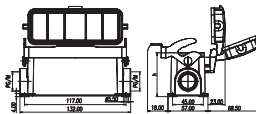
H24B with 1 lever on the hoods/housings

POWDER-COATED, RAL 7037

Dimensions (mm)		Metr.	PG	Type	Part Number						
Hood: Side entry											
	Low construction 	M25 M32	PG21 PG29	H24B-TS-RO-PG21 H24B-TS-RO-PG29 H24B-TS-RO-M25 H24B-TS-RO-M32	T1310240121-000 T1310240129-000 T1310240125-000 T1310240132-000						
	High construction 	M25 M32 M40	PG21 PG29	H24B-TSH-RO-PG21 H24B-TSH-RO-PG29 H24B-TSH-RO-M25 H24B-TSH-RO-M32 H24B-TSH-RO-M40	T1330240121-000 T1330240129-000 T1330240125-000 T1330240132-000 T1330240140-000						
Hood: Top entry											
	Low construction 	M25 M32	PG21 PG29	H24B-TG-RO-PG21 H24B-TG-RO-PG29 H24B-TG-RO-M25 H24B-TG-RO-M32	T1320240121-000 T1320240129-000 T1320240125-000 T1320240132-000						
	High construction 	M25 M32 M40	PG21 PG29	H24B-TGH-RO-PG21 H24B-TGH-RO-PG29 H24B-TGH-RO-M25 H24B-TGH-RO-M32 H24B-TGH-RO-M40	T1340240121-000 T1340240129-000 T1340240125-000 T1340240132-000 T1340240140-000						
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>78.5</td></tr></table>	Construction	H	Low	62.5	Hight	78.5	Low construction M25 M32 High construction M25 M32 M40	PG21 PG29 PG21 PG29	H24B-TBF-LB-PG21 H24B-TBF-LB-PG29 H24B-TBF-LB-M25 H24B-TBF-LB-M32 H24B-TBFH-LB-PG21 H24B-TBFH-LB-PG29 H24B-TBFH-LB-M25 H24B-TBFH-LB-M32 H24B-TBFH-LB-M40	T1730242121-000 T1730242129-000 T1730242125-000 T1730242132-000 T1770243121-000 T1770243129-000 T1770243125-000 T1770243132-000 T1770243140-000
Construction	H										
Low	62.5										
Hight	78.5										
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  <table><tr><td>Construction</td><td>H</td></tr><tr><td>Low</td><td>56</td></tr><tr><td>Hight</td><td>81</td></tr></table>	Construction	H	Low	56	Hight	81	M20 M25 M20 M25 M25 M32 M25 M32	PG16 PG21 PG16 PG21 PG21 PG29 PG21 PG29	H24B-SGR-LB-PG16 H24B-SGR-LB-PG21 H24B-SGR-LB-M20 H24B-SGR-LB-M25 H24B-SGR-LB-2PG16 H24B-SGR-LB-2PG21 H24B-SGR-LB-2M20 H24B-SGR-LB-2M25 H24B-SGRH-LB-PG21 H24B-SGRH-LB-PG29 H24B-SGRH-LB-M25 H24B-SGRH-LB-M32 H24B-SGRH-LB-2PG21 H24B-SGRH-LB-2PG29 H24B-SGRH-LB-2M25 H24B-SGRH-LB-2M32	T1610243116-000 T1610243121-000 T1610243120-000 T1610243125-000 T1610243216-000 T1610243221-000 T1610243220-000 T1610243225-000 T1650243121-000 T1650243129-000 T1650243125-000 T1650243132-000 T1650243221-000 T1650243229-000 T1650243225-000 T1650243232-000
Construction	H										
Low	56										
Hight	81										
	With protection cover  <table><tr><td>Construction</td><td>H</td></tr><tr><td>Low</td><td>56</td></tr><tr><td>Hight</td><td>81</td></tr></table>	Construction	H	Low	56	Hight	81	M20 M25 M20 M25 M25 M32 M25 M32	PG16 PG21 PG16 PG21 PG21 PG29 PG21 PG29	H24B-SDR-LB-PG16 H24B-SDR-LB-PG21 H24B-SDR-LB-M20 H24B-SDR-LB-M25 H24B-SDR-LB-2PG16 H24B-SDR-LB-2PG21 H24B-SDR-LB-2M20 H24B-SDR-LB-2M25 H24B-SDRH-LB-PG21 H24B-SDRH-LB-PG29 H24B-SDRH-LB-M25 H24B-SDRH-LB-M32 H24B-SDRH-LB-2PG21 H24B-SDRH-LB-2PG29 H24B-SDRH-LB-2M25 H24B-SDRH-LB-2M32	T1620243116-000 T1620243121-000 T1620243120-000 T1620243125-000 T1620243216-000 T1620243221-000 T1620243220-000 T1620243225-000 T1660243121-000 T1660243129-000 T1660243125-000 T1660243132-000 T1660243221-000 T1660243229-000 T1660243225-000 T1660243232-000
Construction	H										
Low	56										
Hight	81										

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

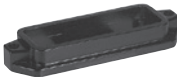
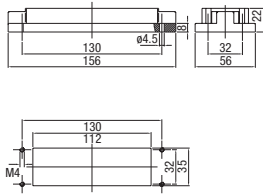
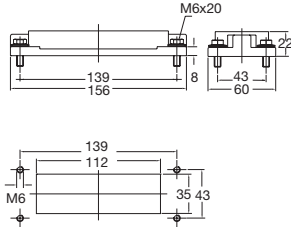
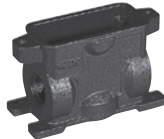
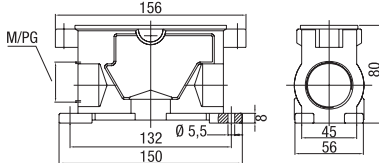
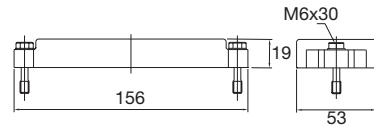
HIP: Pressure-tight, silver-grey

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

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

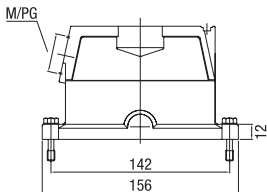
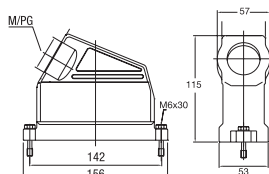
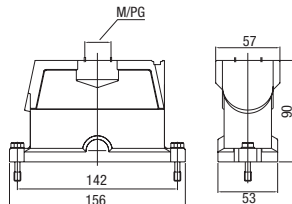
HIP: Pressure-tight, silver-grey

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

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

Pressure-tight up to 5 bar

IP 68 / IP 69 K

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

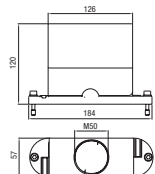
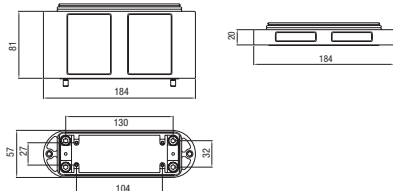
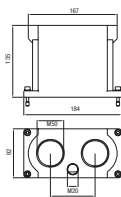
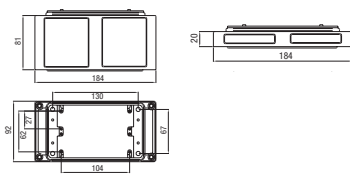
HF-HIP-K 8/HF-EMV-K 8, HF-HIP-K 12/HF-EMV-K 12 housings

HIP: Pressure-tight, silver-grey

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

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

Screw lock on hood

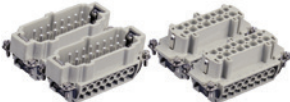
Description		Metr.	PG	Type	Part Number
Hood					
		1xM50 1xM50 2xM40 2xM40		HF-HIP-K.8.Sto.1.M50G HF.8.EMV-K.8.Sto.1.M50G HF.HIP-K.8.Sto.2.M40G HF.EMV-K.8.Sto.2.M40G	O-1102839-4 O-1102839-3 O-1102839-2 O-1102839-1
Housing bottom					
		Height		HF-HIP-K.8.AG.N HF-EMV-K.8.AG.N HF-HIP-K.8.AG HF-EMV-K.8.AG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

HE-032 inserts

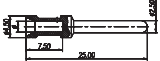
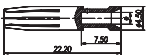
INSERTS FOR H32B HOOD/HOUSING

500V MAX. 16A

32 (2x16)+⊕

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

16A Contact

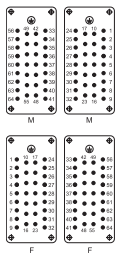
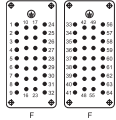
Tech data	16A Male crimp contacts	Wire gauge		Strip-ping length	Crimp contacts, silver-plated		Crimp contacts, gold-plated	
		mm ²	AWG		Type	Part Number	Type	Part Number
Material: copper alloy Contact resistance: ≤1mΩ Terminal: crimp connection CEM/Male 		0.14-0.37	26-22	7.5	CEM-0.3	T2030001002-000	DEM-0.3	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

HEE-064 inserts

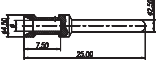
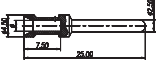
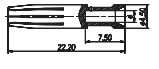
INSERTS FOR H32B HOOD/HOUSING

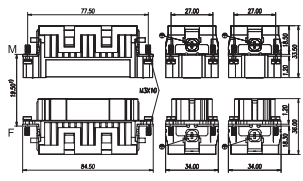
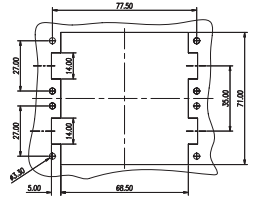
500V MAX. 16A

64 (2x32)+

Dimensions (mm)		Type	Part Number	
			Male insert	Female insert
Crimp terminal (order crimp contacts separately)	Contact arrangement view from termination side			
		HEE-032-M(1-32) HEE-032-M(33-64)	T2050322101-000 T2050642101-000	
		HEE-032-F(1-32) HEE-032-F(33-64)		T2050322201-000 T2050642201-000

16A Contact

Tech data Material: copper alloy Contact resistance: ≤1mΩ Terminal: crimp connection CEM/Male	16A Male crimp contacts 	Wire gauge		Strip- ping length	Crimp contacts, silver-plated		Crimp contacts, gold-plated	
		mm ²	AWG		Type	Part Number	Type	Part Number
		0.14-0.37	26-22	7.5	CEM-0.3	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

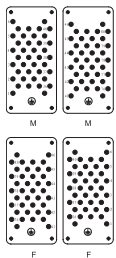
Distance for contact max. 21mm	Panel cut-out for inserts for use without hoods/housings
Crimp terminal 	

HEEE-080 inserts

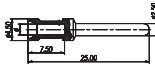
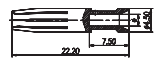
INSERTS FOR H32B HOOD/HOUSING

500V MAX. 16A

80+ ()

Dimensions (mm)		Type	Part Number	
			Male insert	Female insert
Crimp terminal (order crimp contacts separately)	Contact arrangement view from termination side			
		HEEE-040-M(1-40) HEEE-040-M(41-80)	T2050402101-000 T2050802101-000	
		HEEE-040-F(1-40) HEEE-040-F(41-80)		T2050402201-000 T2050802201-000

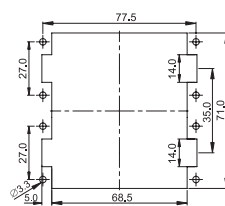
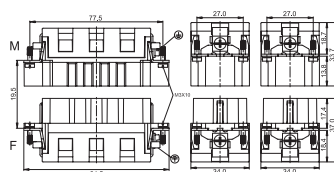
16A Contact

Tech data Material: copper alloy Contact resistance: ≤1mΩ Terminal: crimp connection CEM/Male	16A Male crimp contacts 	Wire gauge		Strip- ping length	Crimp contacts, silver-plated		Crimp contacts, gold-plated	
		mm²	AWG		Type	Part Number	Type	Part Number
CEF/Female 	16A Female crimp contacts	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

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

Crimp terminal

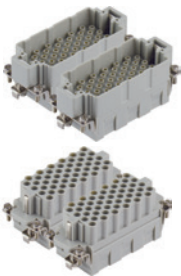
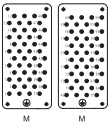
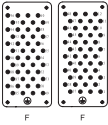


HEEE-096 inserts

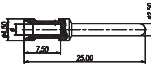
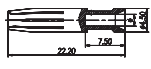
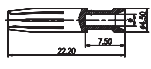
INSERTS FOR H32B HOOD/HOUSING

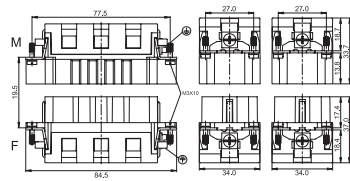
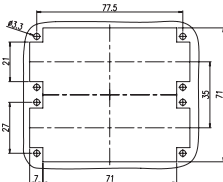
400V MAX. 16A

96+ 

Dimensions (mm)		Type	Part Number	
			Male insert	Female insert
Crimp terminal (order crimp contacts separately)	Contact arrangement view from termination side			
		HEEE-048-M(1-48) HEEE-048-M(49-96)	T2050482101-000 T2050962101-000	
		HEEE-048-F(1-48) HEEE-048-F(49-96)		T2050482201-000 T2050962201-000

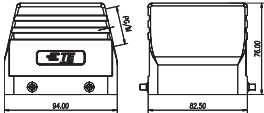
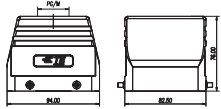
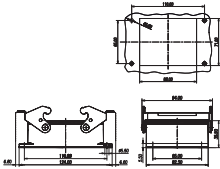
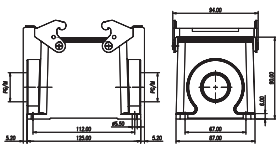
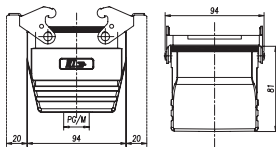
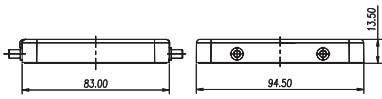
16A Contact

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

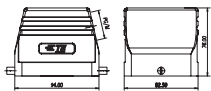
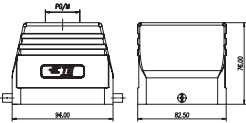
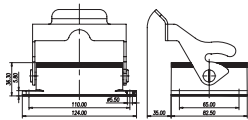
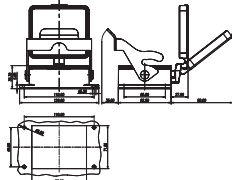
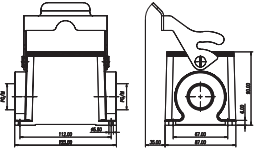
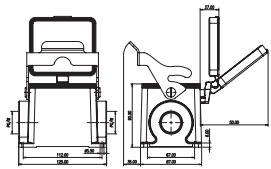
H32B with 2 levers on the hoods/housings

POWDER-COATED, RAL 7037

Dimensions (mm)	Metr.	PG	Type	Part Number
Hood: Side entry				
		M32 M40	PG29 PG36 H32B-TS-PG29 H32B-TS-PG36 H32B-TS-M32 H32B-TS-M40	T1210320129-000 T1210320136-000 T1210320132-000 T1210320140-000
Hood: Top entry				
		M25 M32 M40 M50	PG21 PG29 PG36 PG42 H32B-TG-PG21 H32B-TG-PG29 H32B-TG-PG36 H32B-TG-PG42 H32B-TG-M25 H32B-TG-M32 H32B-TG-M40 H32B-TG-M50	T1220320121-000 T1220320129-000 T1220320136-000 T1220320142-000 T1220320125-000 T1220320132-000 T1220320140-000 T1220320150-000
Bulkhead mounted				
			H32B-AG	T1410322000-000
Surface mounted: Side entry				
		1 Side entry M32 M40 M50 M63 2 Side entry M32 M40 M50 M63	PG29 PG36 PG42 H32B-SGR-PG29 H32B-SGR-PG36 H32B-SGR-PG42 H32B-SGR-M32 H32B-SGR-M40 H32B-SGR-M50 H32B-SGR-M63 PG29 PG36 PG42 H32B-SGR-2PG29 H32B-SGR-2PG36 H32B-SGR-2PG42 H32B-SGR-2M32 H32B-SGR-2M40 H32B-SGR-2M50 H32B-SGR-2M63	T1440322129-000 T1440322136-000 T1440322142-000 T1440322132-000 T1440322140-000 T1440322150-000 T1440322163-000 T1440322229-000 T1440322236-000 T1440322242-000 T1440322232-000 T1440322240-000 T1440322250-000 T1440322263-000
Cable-to-cable hood				
		M32 M40 M50 M63	PG29 PG36 PG42 H32B-TBF-PG29 H32B-TBF-PG36 H32B-TBF-PG42 H32B-TBF-M32 H32B-TBF-M40 H32B-TBF-M50 H32B-TBF-M63	T1710322129-000 T1710322136-000 T1710322142-000 T1710322132-000 T1710322140-000 T1710322150-000 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 M40	PG29 PG36 H32B-TS-RO-PG29 H32B-TS-RO-PG36 H32B-TS-RO-M32 H32B-TS-RO-M40	T1310320129-000 T1310320136-000 T1310320132-000 T1310320140-000
Hood: Top entry				
		M25 M32 M40 M50	PG21 PG29 PG36 PG42 H32B-TG-RO-PG21 H32B-TG-RO-PG29 H32B-TG-RO-PG36 H32B-TG-RO-PG42 H32B-TG-RO-M25 H32B-TG-RO-M32 H32B-TG-RO-M40 H32B-TG-RO-M50	T1320320121-000 T1320320129-000 T1320320136-000 T1320320142-000 T1320320125-000 T1320320132-000 T1320320140-000 T1320320150-000
Bulkhead mounted				
			H32B-AG-LB	T1500322000-000
	With protection cover 		H32B-AD-LB	T1510322000-000
Surface mounted: Side entry				
		1 Side entry M32 M40 2 Side entry M32 M40	PG29 H32B-SGR-LB-PG29 H32B-SGR-LB-M32 H32B-SGR-LB-M40 PG29 H32B-SGR-LB-2PG29 H32B-SGR-LB-2M32 H32B-SGR-LB-2M40	T1610322129-000 T1610322132-000 T1610322140-000 T1610322229-000 T1610322232-000 T1610322240-000
	With protection cover 	1 Side entry M32 M40 2 Side entry M32 M40	PG29 H32B-SDR-LB-PG29 H32B-SDR-LB-M32 H32B-SDR-LB-M40 PG29 H32B-SDR-LB-2PG29 H32B-SDR-LB-2M32 H32B-SDR-LB-2M40	T1620320129-000 T1620320132-000 T1620320140-000 T1620320229-000 T1620320232-000 T1620320240-000

HE-048 inserts

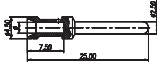
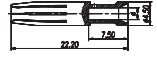
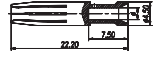
INSERTS FOR H48B HOOD/HOUSING

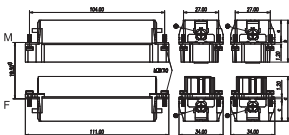
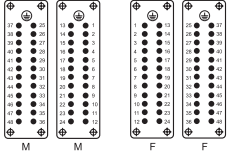
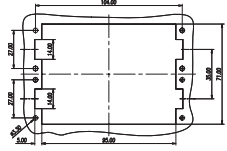
500V MAX. 16A

48 (2x24)+

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

16A Contact

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

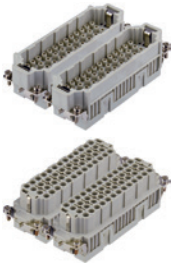
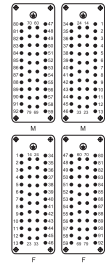
Distance for contact max. 21mm	Contact arrangement view from termination side	Panel cut-out for inserts for use without hoods/housings
		

HEE-092 inserts

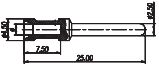
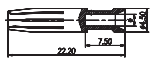
INSERTS FOR H48B HOOD/HOUSING

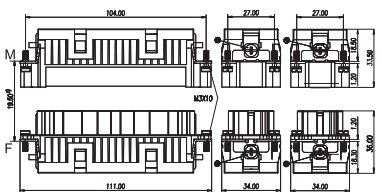
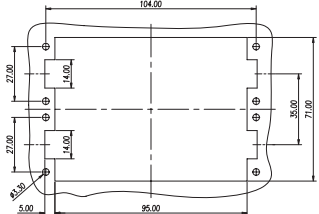
500V MAX. 16A

92 (2x46)+

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

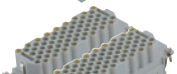
16A Contact

Tech data Material: copper alloy Contact resistance: ≤1mΩ Terminal: crimp connection CEM/Male	16A Male crimp contacts 	Wire gauge		Strip-ping length	Crimp contacts, silver-plated		Crimp contacts, gold-plated	
		mm²	AWG		Type	Part Number	Type	Part Number
 CEF/Female		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	Panel cut-out for inserts for use without hoods/housings
Crimp terminal 	

500V MAX. 16A

128+

Dimensions (mm)		Type	Part Number	
			Male insert	Female insert
Crimp terminal (order crimp contacts separately)	Contact arrangement view from termination side			
 	 	HEEE-064-M(1-64) HEEE-128-M(65-128)	T2050643101-000 T2051283101-000	
		HEEE-064-F(1-64) HEEE-128-F(65-128)		T2050643201-000 T2051283201-000

Tech data Material: copper alloy Contact resistance: ≤1mΩ Terminal: crimp connection CEM/Male 	16A Male crimp contacts 	Wire gauge		Strip-ping length mm	Crimp contacts, silver-plated		Crimp contacts, gold-plated		
		mm²	AWG		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	

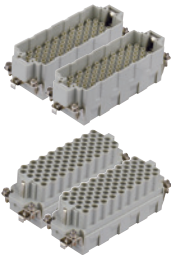
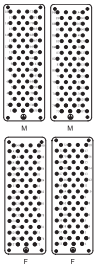
[illegible]

HEEE-144 inserts

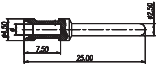
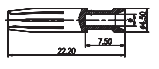
INSERTS FOR H48B HOOD/HOUSING

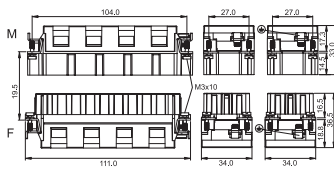
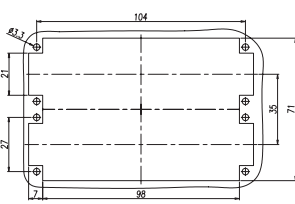
400V MAX. 16A

144+⊕

Dimensions (mm)		Type	Part Number	
			Male insert	Female insert
Crimp terminal (order crimp contacts separately)	Contact arrangement view from termination side			
		HEEE-072-M(1-72) HEEE-144-M(73-144)	T2050722101-000 T2051442101-000	
		HEEE-072-F(1-72) HEEE-144-F(73-144)		T2050722201-000 T2051442201-000

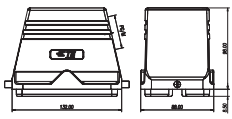
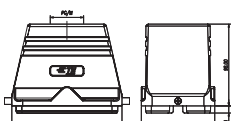
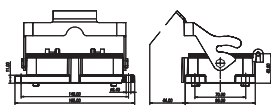
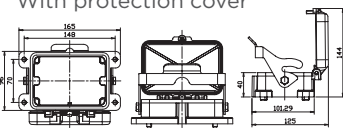
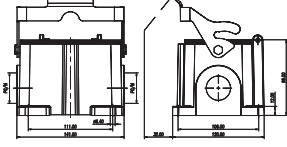
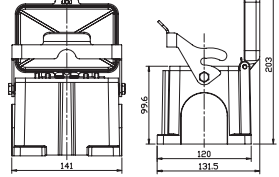
16A Contact

Tech data Material: copper alloy Contact resistance: ≤1mΩ Terminal: crimp connection CEM/Male	16A Male crimp contacts	Wire gauge		Strip- ping length	Crimp contacts, silver-plated		Crimp contacts, gold-plated	
		mm ²	AWG		Type	Part Number	Type	Part Number
		0.14-0.37	26-22	7.5	CEM-0.3	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	Panel cut-out for inserts for use without hoods/housings
Crimp terminal 	

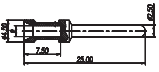
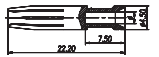
H48B hoods/housings

POWDER-COATED, RAL 7037

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

Crimp contacts HE/HA series

16A Contact

Tech data Material: copper alloy Contact resistance: $\leq 1\text{m}\Omega$ Terminal: crimp connection CEM/Male	16A Male crimp contacts 	Wire gauge		Strip- ping length	Crimp contacts, silver-plated		Crimp contacts, gold-plated	
		mm ²	AWG	mm	Type	Part Number	Type	Part Number
		0.14-0.37	26-22	7.5	CEM-0.3	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 Wire range: 0.5-4.0mm ² Suitable for CDM/CDF and CEM/CEF contacts		CRIMPBOX-0.5/4	T3100000001-000
Crimp tool Wire range: 0.14-4.0mm ² Suitable for CDM/CDF and CEM/CEF contacts with locator and die		RSZ.HE-HN.D-HVT	1-1105851-8
Removal tools Used for CEM/CEF contact series		REMOV-HEE	T3100000002-000
M3 screw driver Used for HA/HE inserts		SCREWD-M3	T3100000009-000

HVE technical characteristics

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

INSERTS

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

CONTACTS

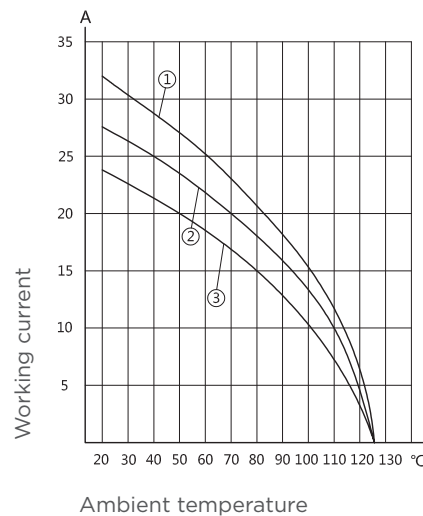
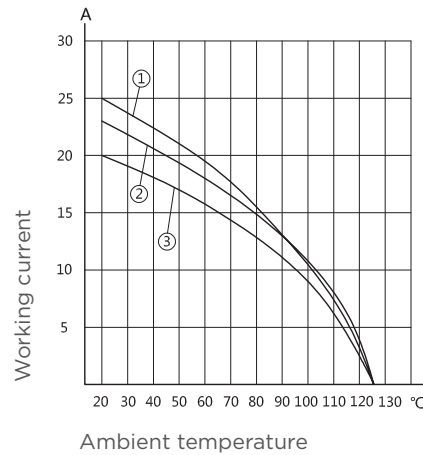
Material	Copper alloy
Surface	Hard silver-plated
.....	Hard gold-plated
Contact resistance	$\leq 5m\Omega$
Terminal	Screw terminal
.....	Crimp terminal
.....	Spring terminal
- mm ²	
Screw terminal	0.5-2.5mm ²
Crimp terminal	0.14-4mm ²
Spring terminal	0.5-2.5mm ²
- AWG	
Screw terminal	20-14
Crimp terminal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

HOODS, HOUSINGS

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

CURRENT CARRYING CAPACITY

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



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

HEE series (high voltage) inserts

MODIFIED CONTACT ARRANGEMENT

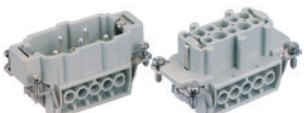
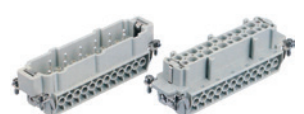
The connector series HEE equipped with all contacts may be used for voltages up to 500V-insulation group C. A modified contact loading arrangement permits use up to 1000V-also in insulation group C.

Series HEE 690V~ Insulation group C	Contact arrangement view from termination side			
	4+	8+	14+	20+
1000V~ Insulation group C	2+	4+	8+	12+
	Working contact	Without contact	Male insert	Female insert

HVE series

INSERTS FOR H10B, H16B, H24B HOOD/HOUSING

830V MAX. 16A

Dimension (mm)	Type	Part Number	
		Male insert	Female insert
3+  +2 Screw terminal			
	HVE-003-M	T2300033101-000	
	HVE-003-F		T2300033201-000
6+  +2 Screw terminal			
	HVE-006-M	T2300063101-000	
	HVE-006-F		T2300063201-000
10+  +2 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



HSB technical characteristics

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

INSERTS

Working current	35A max
(See current carrying capacity)	
Working voltage	
Conductor - ground	400 V
Conductor - conductor	690 V
Test voltage urms	6KV
Pollution degree	3
Insulation resistance	$\geq 10^{10} \Omega$
Material	Polycarbonate
Temperature range	-40°C... +125°C
Flammability acc. to UL94	V0
Working voltage acc. to UL/CSA	600V
Mechanical working life-mating cycles	≥ 500

CONTACTS

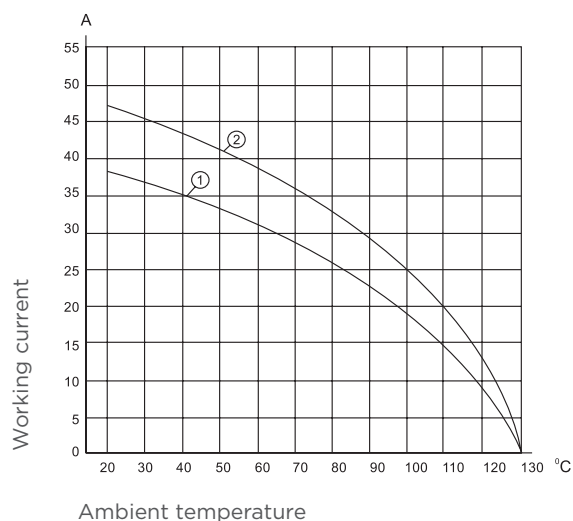
Material	Copper alloy
Surface	Hard silver-plated
Contact resistance	$\leq 1m\Omega$
Terminal	Screw terminal
- mm ²	1.5-6mm ²
- AWG	16-10
- Tightening/test torque	1.2 Nm

HOODS, HOUSINGS

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

CURRENT CARRYING CAPACITY

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



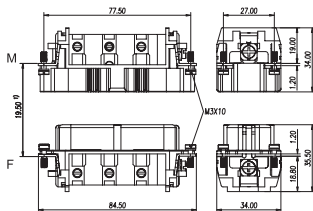
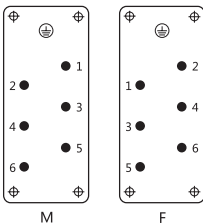
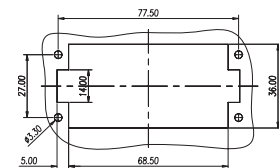
- 1 Wire gauge: 4.0mm²
- 2 Wire gauge: 6.0mm²

HSB-006 inserts

INSERTS FOR H16B HOOD/HOUSING

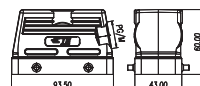
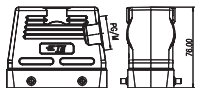
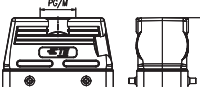
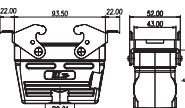
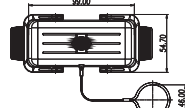
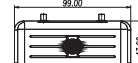
690V 35A

6+ 

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

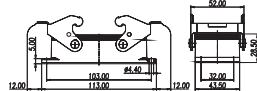
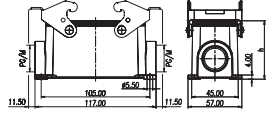
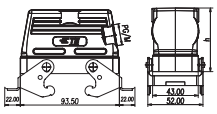
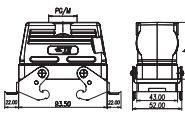
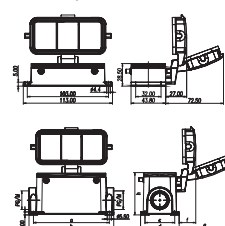
H16B with 2 levers on the hoods/housings

POWDER-COATED, RAL 7037

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

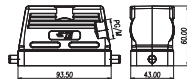
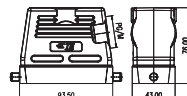
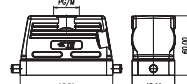
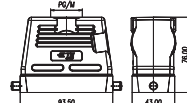
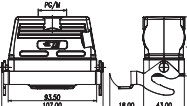
H16B with 2 levers on the hoods/housings

POWDER-COATED, RAL 7037

Dimensions (mm)		Metr.	PG	Type	Part Number																									
Bulkhead mounted																														
				H16B-AGS	T1410161000-000																									
Surface mounted: Side entry																														
	 <table><tr><td>Construction</td><td>H</td></tr><tr><td>Low</td><td>56</td></tr><tr><td>Hight</td><td>81</td></tr></table>	Construction	H	Low	56	Hight	81	1 Side entry 2 Side entry Low construction High construction	M25 M25 M25 M32 M25 M32	PG21 PG21 PG21 PG29 PG21 PG29	H16B-SGRS-PG21 H16B-SGRS-M25 H16B-SGRS-2PG21 H16B-SGRS-2M25 H16B-SGRHS-PG21 H16B-SGRHS-PG29 H16B-SGRHS-M25 H16B-SGRHS-M32 H16B-SGRHS-2PG21 H16B-SGRHS-2PG29 H16B-SGRHS-2M25 H16B-SGRHS-2M32	T1440161121-000 T1440161125-000 T1440161221-000 T1440161225-000 T1470161121-000 T1470161129-000 T1470161125-000 T1470161132-000 T1470161221-000 T1470161229-000 T1470161225-000 T1470161232-000																		
Construction	H																													
Low	56																													
Hight	81																													
Side entry housing with two levers																														
	 <table><tr><td>Construction</td><td>H</td></tr><tr><td>Low</td><td>60</td></tr><tr><td>Hight</td><td>76</td></tr></table>	Construction	H	Low	60	Hight	76	Low construction High construction	M20 M25 M25 M32	PG16 PG21 PG21 PG29	H16B-TSBS-PG16 H16B-TSBS-PG21 H16B-TSBS-M20 H16B-TSBS-M25 H16B-TSBHS-PG21 H16B-TSBHS-PG29 H16B-TSBHS-M25 H16B-TSBHS-M32	T1250163116-000 T1250163121-000 T1250163120-000 T1250163125-000 T1270163121-000 T1270163129-000 T1270163125-000 T1270163132-000																		
Construction	H																													
Low	60																													
Hight	76																													
Top entry housing with two levers																														
	 <table><tr><td>Construction</td><td>H</td></tr><tr><td>Low</td><td>60</td></tr><tr><td>Hight</td><td>76</td></tr></table>	Construction	H	Low	60	Hight	76	Low construction High construction	M20 M25 M25 M32	PG16 PG21 PG21 PG29	H16B-TGBS-PG16 H16B-TGBS-PG21 H16B-TGBS-M20 H16B-TGBS-M25 H16B-TGBHS-PG21 H16B-TGBHS-PG29 H16B-TGBHS-M25 H16B-TGBHS-M32	T1260163116-000 T1260163121-000 T1260163120-000 T1260163125-000 T1280163121-000 T1280163129-000 T1280163125-000 T1280163132-000																		
Construction	H																													
Low	60																													
Hight	76																													
Bulkhead mounted with 4 bolts																														
 	With protection cover  <table><tr><td>Construction</td><td>A</td><td>B</td><td>C</td><td>D</td><td>F</td><td>G</td><td>H</td></tr><tr><td>Low</td><td>105</td><td>117</td><td>45</td><td>57</td><td>20</td><td>65</td><td>56</td></tr><tr><td>Hight</td><td>105</td><td>117</td><td>45</td><td>57</td><td>20</td><td>65</td><td>81</td></tr></table>	Construction	A	B	C	D	F	G	H	Low	105	117	45	57	20	65	56	Hight	105	117	45	57	20	65	81	1 Side entry 2 Side entry Low construction High construction	M25 M25 M25 M32 M25 M32	PG21 PG21 PG21 PG29 PG21 PG29	H16B-AD-BO H16B-SDR-BO-PG21 H16B-SDR-BO-M25 H16B-SDR-BO-2PG21 H16B-SDR-BO-2M25 H16B-SDRH-BO-PG21 H16B-SDRH-BO-PG29 H16B-SDRH-BO-M25 H16B-SDRH-BO-M32 H16B-SDRH-BO-2PG21 H16B-SDRH-BO-2PG29 H16B-SDRH-BO-2M25 H16B-SDRH-BO-2M32	T1430160000-000 T1460160121-000 T1460160125-000 T1460160221-000 T1460160225-000 T1490160121-000 T1490160129-000 T1490160125-000 T1490160132-000 T1490160221-000 T1490160229-000 T1490160225-000 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																							

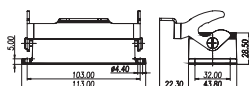
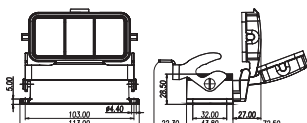
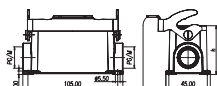
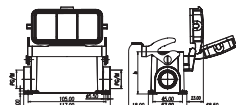
H16B with 1 lever on the hoods/housings

POWDER-COATED, RAL 7037

Dimensions (mm)		Metr.	PG	Type	Part Number						
Hood: Side entry											
	Low construction 	M25 M32	PG21 PG29	H16B-TS-RO-PG21 H16B-TS-RO-PG29 H16B-TS-RO-M25 H16B-TS-RO-M32	T1310160121-000 T1310160129-000 T1310160125-000 T1310160132-000						
	High construction 	M25 M32 M40	PG21 PG29	H16B-TSH-RO-PG21 H16B-TSH-RO-PG29 H16B-TSH-RO-M25 H16B-TSH-RO-M32 H16B-TSH-RO-M40	T1330160121-000 T1330160129-000 T1330160125-000 T1330160132-000 T1330160140-000						
Hood: Top entry											
	Low construction 	M25 M32	PG21 PG29	H16B-TG-RO-PG21 H16B-TG-RO-PG29 H16B-TG-RO-M25 H16B-TG-RO-M32	T1320160121-000 T1320160129-000 T1320160125-000 T1320160132-000						
	High construction 	M25 M32 M40	PG21 PG29	H16B-TGH-RO-PG21 H16B-TGH-RO-PG29 H16B-TGH-RO-M25 H16B-TGH-RO-M32 H16B-TGH-RO-M40	T1340160121-000 T1340160129-000 T1340160125-000 T1340160132-000 T1340160140-000						
Cable-to-cable hood											
	<table><tr><th>Construction</th><th>H</th></tr><tr><td>Low</td><td>62.5</td></tr><tr><td>High</td><td>74.5</td></tr></table>	Construction	H	Low	62.5	High	74.5	Low construction M25 M32 High construction M25 M32 M40	PG21 PG29 PG21 PG29	H16B-TBF-LB-PG21 H16B-TBF-LB-PG29 H16B-TBF-LB-M25 H16B-TBF-LB-M32 H16B-TBFH-LB-PG21 H16B-TBFH-LB-PG29 H16B-TBFH-LB-M25 H16B-TBFH-LB-M32 H16B-TBFH-LB-M40	T1730163121-000 T1730163129-000 T1730163125-000 T1730163132-000 T1770163121-000 T1770163129-000 T1770163125-000 T1770163132-000 T1770163140-000
Construction	H										
Low	62.5										
High	74.5										
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											
	 <table border="1" data-bbox="323 1144 542 1238"><tr><td>Construction</td><td>H</td></tr><tr><td>Low</td><td>56</td></tr><tr><td>High</td><td>81</td></tr></table>	Construction	H	Low	56	High	81	1 Side entry Low construction M20 M25 2 Side entry M20 M25 High construction M25 M32 2 Side entry M25 M32	PG16 PG21 PG16 PG21 PG21 PG29 PG21 PG29	H16B-SGR-LB-PG16 H16B-SGR-LB-PG21 H16B-SGR-LB-M20 H16B-SGR-LB-M25 H16B-SGR-LB-2PG16 H16B-SGR-LB-2PG21 H16B-SGR-LB-2M20 H16B-SGR-LB-2M25 H16B-SGRH-LB-PG21 H16B-SGRH-LB-PG29 H16B-SGRH-LB-M25 H16B-SGRH-LB-M32 H16B-SGRH-LB-2PG21 H16B-SGRH-LB-2PG29 H16B-SGRH-LB-2M25 H16B-SGRH-LB-2M32	T1610163116-000 T1610163121-000 T1610163120-000 T1610163125-000 T1610163216-000 T1610163221-000 T1610163220-000 T1610163225-000 T1650163121-000 T1650163129-000 T1650163125-000 T1650163132-000 T1650163221-000 T1650163229-000 T1650163225-000 T1650163232-000
Construction	H										
Low	56										
High	81										
	With protection cover  <table border="1" data-bbox="323 1561 542 1655"><tr><td>Construction</td><td>H</td></tr><tr><td>Low</td><td>56</td></tr><tr><td>High</td><td>81</td></tr></table>	Construction	H	Low	56	High	81	1 Side entry Low construction M20 M25 2 Side entry M20 M25 High construction M25 M32 2 Side entry M25 M32	PG16 PG21 PG16 PG21 PG21 PG29 PG21 PG29	H16B-SDR-LB-PG16 H16B-SDR-LB-PG21 H16B-SDR-LB-M20 H16B-SDR-LB-M25 H16B-SDR-LB-2PG16 H16B-SDR-LB-2PG21 H16B-SDR-LB-2M20 H16B-SDR-LB-2M25 H16B-SDRH-LB-PG21 H16B-SDRH-LB-PG29 H16B-SDRH-LB-M25 H16B-SDRH-LB-M32 H16B-SDRH-LB-2PG21 H16B-SDRH-LB-2PG29 H16B-SDRH-LB-2M25 H16B-SDRH-LB-2M32	T1620163116-000 T1620163121-000 T1620163120-000 T1620163125-000 T1620163216-000 T1620163221-000 T1620163220-000 T1620163225-000 T1660163121-000 T1660163129-000 T1660163125-000 T1660163132-000 T1660163221-000 T1660163229-000 T1660163225-000 T1660163232-000
Construction	H										
Low	56										
High	81										

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

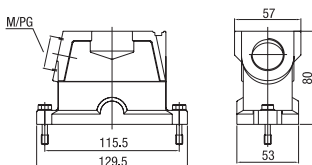
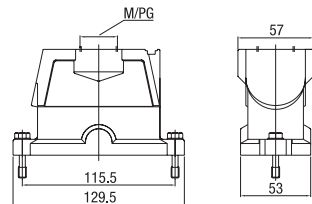
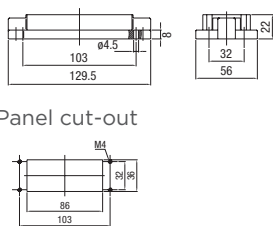
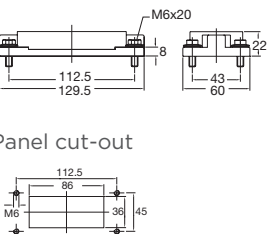
HIP: Pressure-tight, silver-grey

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

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

Pressure-tight up to 5 bar

IP 68 / IP 69 K

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

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

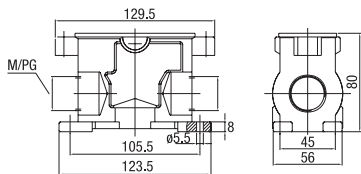
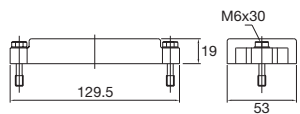
HIP: Pressure-tight, silver-grey

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

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

Pressure-tight up to 5 bar

IP 68 / IP 69 K

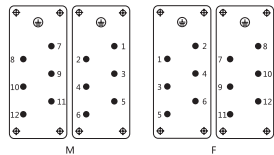
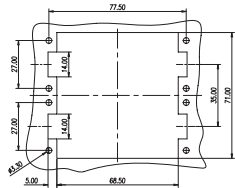
Description	Metr.	PG	Type	Part Number	
Surface mounted housing: Side entry					
		2xM32	21 2x21	HIP HIP.16/40.SG.1.21.G HIP.16/40.SG.2.21.G HIP.16/40.SG.2.M32.G	1-1102616-5 1-1102617-5 0-1106453-1
		2xM32	21 2x21	HIP-K HIP-K.16/40.SG.1.21.G HIP-K.16/40.SG.2.21.G HIP-K.16/40.SG.2.M32.G	5-1102616-5 2-1102617-5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

HSB-012 inserts

INSERTS FOR H32B HOOD/HOUSING

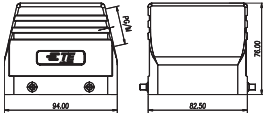
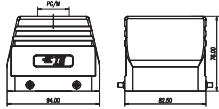
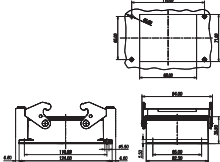
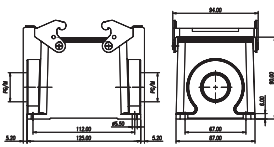
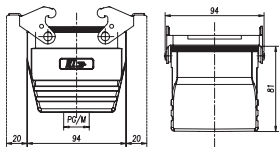
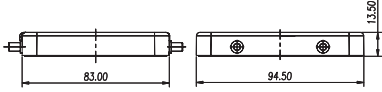
690V 35A

12 (2x6)+ 

Dimensions (mm)	Type	Part Number	
		Male insert	Female insert
Screw terminal			
	HSB-006-M(1-6) HSB-006-M(7-12)	T2060062101-000 T2060122101-000	
	HSB-006-F(1-6) HSB-006-F(7-12)		T2060062201-000 T2060122201-000
Contact arrangement view from termination side	Panel cut out for inserts for use without hoods/housings		
			

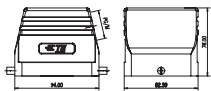
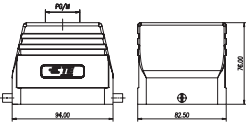
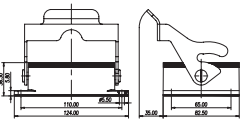
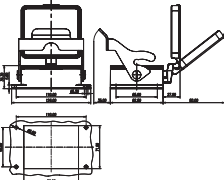
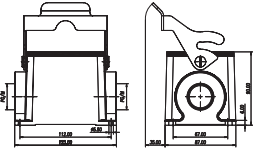
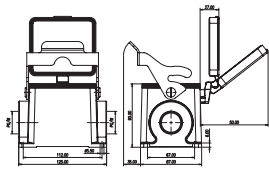
H32B with 2 levers on the hoods/housings

POWDER-COATED, RAL 7037

Dimensions (mm)	Metr.	PG	Type	Part Number
Hood: Side entry				
		M32 M40	PG29 PG36 H32B-TS-PG29 H32B-TS-PG36 H32B-TS-M32 H32B-TS-M40	T1210320129-000 T1210320136-000 T1210320132-000 T1210320140-000
Hood: Top entry				
		M25 M32 M40 M50	PG21 PG29 PG36 PG42 H32B-TG-PG21 H32B-TG-PG29 H32B-TG-PG36 H32B-TG-PG42 H32B-TG-M25 H32B-TG-M32 H32B-TG-M40 H32B-TG-M50	T1220320121-000 T1220320129-000 T1220320136-000 T1220320142-000 T1220320125-000 T1220320132-000 T1220320140-000 T1220320150-000
Bulkhead mounted				
			H32B-AG	T1410322000-000
Surface mounted: Side entry				
		1 Side entry M32 M40 M50 M63 2 Side entry M32 M40 M50 M63	PG29 PG36 PG42 H32B-SGR-PG29 H32B-SGR-PG36 H32B-SGR-PG42 H32B-SGR-M32 H32B-SGR-M40 H32B-SGR-M50 H32B-SGR-M63 PG29 PG36 PG42 H32B-SGR-2PG29 H32B-SGR-2PG36 H32B-SGR-2PG42 H32B-SGR-2M32 H32B-SGR-2M40 H32B-SGR-2M50 H32B-SGR-2M63	T1440322129-000 T1440322136-000 T1440322142-000 T1440322132-000 T1440322140-000 T1440322150-000 T1440322163-000 T1440322229-000 T1440322236-000 T1440322242-000 T1440322232-000 T1440322240-000 T1440322250-000 T1440322263-000
Cable-to-cable hood				
		M32 M40 M50 M63	PG29 PG36 PG42 H32B-TBF-PG29 H32B-TBF-PG36 H32B-TBF-PG42 H32B-TBF-M32 H32B-TBF-M40 H32B-TBF-M50 H32B-TBF-M63	T1710322129-000 T1710322136-000 T1710322142-000 T1710322132-000 T1710322140-000 T1710322150-000 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 M40	PG29 PG36	H32B-TS-RO-PG29 H32B-TS-RO-PG36 H32B-TS-RO-M32 H32B-TS-RO-M40	T1310320129-000 T1310320136-000 T1310320132-000 T1310320140-000
Hood: Top entry					
		M25 M32 M40 M50	PG21 PG29 PG36 PG42	H32B-TG-RO-PG21 H32B-TG-RO-PG29 H32B-TG-RO-PG36 H32B-TG-RO-PG42 H32B-TG-RO-M25 H32B-TG-RO-M32 H32B-TG-RO-M40 H32B-TG-RO-M50	T1320320121-000 T1320320129-000 T1320320136-000 T1320320142-000 T1320320125-000 T1320320132-000 T1320320140-000 T1320320150-000
Bulkhead mounted					
				H32B-AG-LB	T1500322000-000
	With protection cover 			H32B-AD-LB	T1510322000-000
Surface mounted: Side entry					
		1 Side entry M32 M40 2 Side entry M32 M40	PG29 PG29	H32B-SGR-LB-PG29 H32B-SGR-LB-M32 H32B-SGR-LB-M40 H32B-SGR-LB-2PG29 H32B-SGR-LB-2M32 H32B-SGR-LB-2M40	T1610322129-000 T1610322132-000 T1610322140-000 T1610322229-000 T1610322232-000 T1610322240-000
	With protection cover 	1 Side entry M32 M40 2 Side entry M32 M40	PG29 PG29	H32B-SDR-LB-PG29 H32B-SDR-LB-M32 H32B-SDR-LB-M40 H32B-SDR-LB-2PG29 H32B-SDR-LB-2M32 H32B-SDR-LB-2M40	T1620320129-000 T1620320132-000 T1620320140-000 T1620320229-000 T1620320232-000 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



HQ technical characteristics

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

CURRENT CARRYING CAPACITY

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

INSERTS

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

CONTACTS

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

HOODS, HOUSINGS

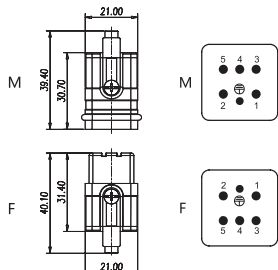
Material	Die cast aluminium
Surface	Powder-coated (RAL 7037)
Locking element.....	Stainless steel, steel-zinc plated
Temperature range	-40°C... +125°C
Degree of protection acc. to DIN40 050	IP65

HQ-005 inserts

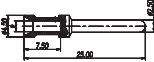
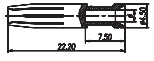
INSERTS FOR H3A HOOD/HOUSING

400V MAX. 16A

5+ (⊕)

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

16A Contact

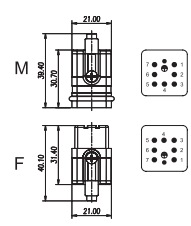
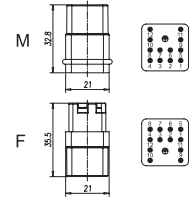
Tech data Material: copper alloy Contact resistance: $\leq 1\text{m}\Omega$ Terminal: crimp connection CEM/Male	16A Male crimp contacts	Wire gauge		Strip-ping length	Crimp contacts, silver-plated		Crimp contacts, gold-plated	
		mm ²	AWG		Type	Part Number	Type	Part Number
		0.14-0.37	26-22	7.5	CEM-0.3	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

HQ-007/012 inserts

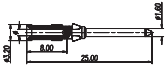
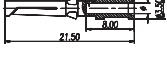
INSERTS FOR H3A HOOD/HOUSING

400V MAX. 10A

7+ 
12+ 

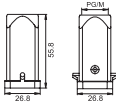
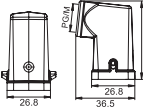
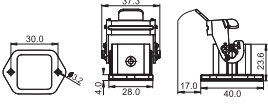
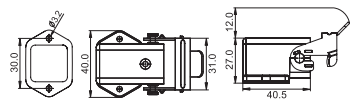
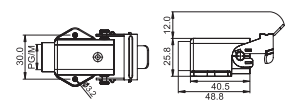
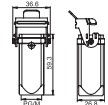
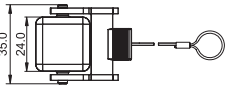
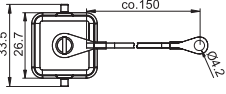
Dimensions (mm)	Contact arrangement view from termination side	Part Number		Type
		Male insert	Female insert	
Crimp terminal (Order crimp contacts separately)				
		T2080072101-000		HQ-007-M
			T2080072201-000	HQ-007-F
		T2080122101-000		HQ-012-M
			T2080122201-000	HQ-012-F

10A Contact

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

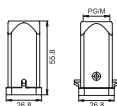
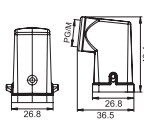
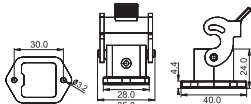
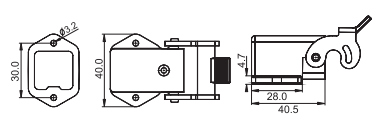
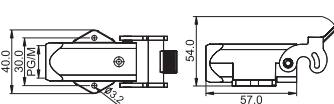
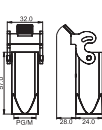
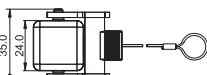
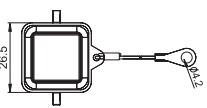
H3A metal hoods/housings

POWDER-COATED, RAL 7037

Dimensions (mm)		Metr.	PG	Type	Part Number
Top entry					
		M20	PG11	H3A-MTG-PG11 H3A-MTG-M20	T1329030111-000 T1329030120-000
Side entry					
		M20	PG11	H3A-MTS-PG11 H3A-MTS-M20	T1319030111-000 T1319030120-000
Bulkhead mounting: Bottom entry					
				H3A-MAG	T1509030000-000
Bulkhead mounting: Side entry					
				H3A-MAGS	T1549030000-000
Surface mounting: Side entry					
		M16 M20	PG11	H3A-MAGSV-PG11 H3A-MAGSV-M16 H3A-MAGSV-M20	T1619030111-000 T1619030116-000 T1619030120-000
Cable-to-cable hood:					
		M20	PG11	H3A-MTGVB-PG11 H3A-MTGVB-M20	T1739030111-000 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 H3A-TG-M20	T1329031111-000 T1329031120-000
Side entry					
		M20	PG11	H3A-TS-PG11 H3A-TS-M20	T1319031111-000 T1319031120-000
Bulkhead mounting: Bottom entry					
				H3A-AG	T1509031100-000
Bulkhead mounting: Side entry					
				H3A-AGS	T1509031111-000
Surface mounting: Side entry					
		M16 M20	PG11	H3A-AGSV-PG11 H3A-AGSV-M16 H3A-AGSV-M20	T1619031111-000 T1619031116-000 T1619031120-000
Cable-to-cable hood:					
		M20	PG11	H3A-TGVB-PG11 H3A-TGVB-M20	T1739031111-000 T1739031120-000
Protection covers for hoods (thermoplastic)					
	Note: For mounted male insert and hood			H3A-KDTP	T1010031100-000
Protection covers for hoods					
 White Grey	Note: For mounted female insert and hood			H3A-KDBP (White) H3A-KDBPG (Grey)	T1010032100-000 T1010032300-000
Covers without sealing type					
				H3A-KDBP (White) H3A-KDBP (Grey)	T1010033200-000 T1010032200-000

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

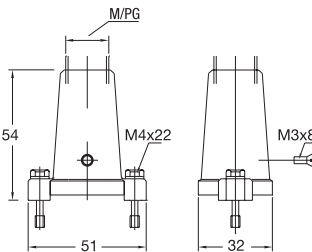
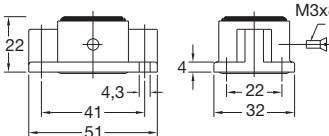
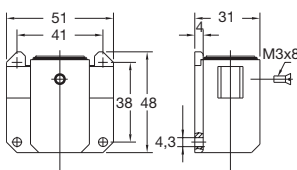
HIP: Pressure-tight, silver-grey

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				
		M16	11 HIP HIP.3/4.ST0.1.11.G HIP.3/4.ST0.1.M16.G	1-1102600-5 0-1106408-1
		M16 M20	11 HIP-K HIP-K.3/4.ST0.1.11.G HIP-K.3/4.ST0.1.M16.G HIP-K.3/4.ST0.1.M20.G	2-1102600-5 0-1106408-2 0-1106408-3
		M16 M20	11 EMV-K EMV-K.3/4.ST0.1.11.G EMV-K.3/4.ST0.1.M16.G EMV-K.3/4.ST0.1.M20.G	4-1102700-5 0-1106402-2 0-1106402-3
Surface mounted housing: Bottom entry				
	 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)				
	 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

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

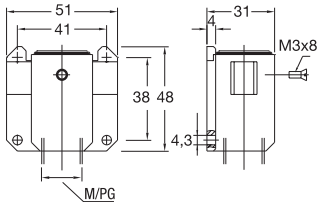
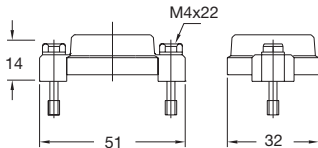
HIP: Pressure-tight, silver-grey

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

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

Screw lock on hood

IP 68 / IP 69 K

Description	Metr.	PG	Type	Part Number
Surface mounted housing: Side entry				
		M16	HIP HIP.3/4.SG.1.11.G HIP.3/4.SG.1.M16.G HIP.3/4.SG.1.M20.G	1-1102601-5
		M20		0-1106407-1
				0-1106401-4
	M16	PG11	HIP-K HIP-K.3/4.SG.1.11.G HIP-K.3/4.SG.1.M16.G	2-1102601-5
				0-1106407-2
	M16	PG11	EMV-K EMV-K.3/4.SG.1.11.G EMV-K.3/4.SG.1.M16.G EMV-K.3/4.SG.1.M20.G	4-1102701-5
	M20			0-1106401-2
				0-1106401-3
Protective covers for housings				
			HIP/EMV HIP/EMV.3/4.SKB	3-1106200-5
			HIP-K/EMV-K HIP-K/EMV-K.3/4.SKB	4-1106200-5

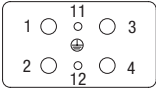
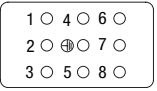
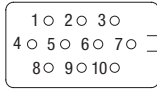
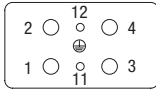
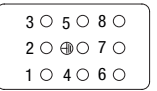
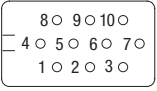
HQ-017, 4/2, 8, 10 Inserts

INSERTS FOR H8A HOOD/HOUSING

17+ 4/2+ 8+ 10

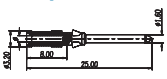
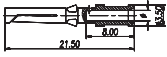
Dimension (mm)	Type	Part Number	
		Male insert	Female insert
Crimp terminal (order crimp contacts separately)			
	HQ-017-M	T2080172101-000	
	HQ-017-F		T2080172201-000
400V/250V max. 40A/10A 	HQ-4/2-M	T2080062101-100	
	HQ-4/2-F		T2080062201-100
	HQ-008-M	T2019092101-000	
	HQ-008-F		T2019092201-000
	HG-Q.10.Sti.C	O-1108808-1	
	HG-Q.10.Bu.C		O-1103091-1

Suitable crimp contacts and crimping tools: see page 190

HE-Q.4/2	HE-Q.8	HE-Q.10
Contact arrangement Male insert		
		
Contact arrangement Female insert		
		

Crimp contacts HN.D series

10A Contact

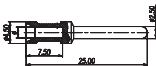
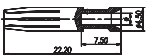
Tech data Material: copper alloy Contact resistance: $\leq 3\text{m}\Omega$ Terminal: crimp connection CDM/Male	10A Male crimp contacts 	Wire gauge		Strip- ping length mm	Crimp contacts, silver-plated		Crimp contacts, gold-plated	
		mm ²	AWG		Type	Part Number	Type	Part Number
		0.14-0.37	26-22	8.0	CDM-0.14	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 		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 Wire range: 0.5-4.0mm ² Suitable for CDM/CDF and CEM/CEF contacts		CRIMPBOX-0.5/4	T3100000001-000
Crimp tool Wire range: 0.14-4.0mm ² Suitable for CDM/CDF and CEM/CEF contacts with locator and die		RSZ.HE-HN.D-HVT	1-1105851-8
Removal tools Used for CDM/CDF contact series		REMOV-HD	T3100000003-000
M3 screw driver Used for HA/HE inserts		SCREWD-M3	T3100000009-000

Crimp contacts HE/HA series

16A Contact

Tech data Material: copper alloy Contact resistance: ≤1mΩ Terminal: crimp connection CEM/Male 	16A Male crimp contacts 	Wire gauge		Strip-ping length	Crimp contacts, silver-plated		Crimp contacts, gold-plated	
					mm²	AWG	mm	Type
		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 Wire range: 0.5-4.0mm ² Suitable for CDM/CDF and CEM/CEF contacts		CRIMPBOX-0.5/4	T3100000001-000
Crimp tool Wire range: 0.14-4.0mm ² Suitable for CDM/CDF and CEM/CEF contacts with locator and die		RSZ.HE-HN.D-HVT	1-1105851-8
Removal tools Used for CEM/CEF contact series		REMOV-HEE	T3100000002-000
M3 screw driver Used for HA/HE inserts		SCREWD-M3	T3100000009-000

Crimp contacts HGQ10 series

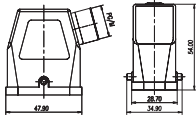
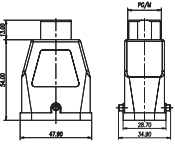
Tech data Material: copper alloy Finish: tin plated Contact resistance: ≤3mΩ Crimp Terminal: 0.2-4.0 mm ² AWG: 24-12 Other finishes and Materials on request Appl. Spec.: 114-18018	Type	Part Number	(mm ²)	Tool
	Pin contact tin plated	962966-1 962967-1 962968-1 962969-1	0.2 - 0.4 0.5 - 1.0 1.0 - 2.5 2.5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

Crimping tools HGQ10 series

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

H8A with 1 lever on the hoods/housings

THERMOPLASTIC HOODS, HOUSINGS

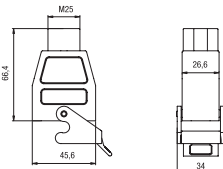
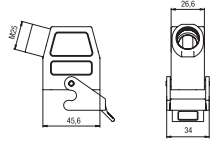
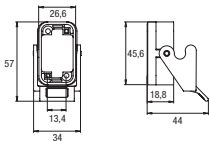
Dimensions (mm)	Metr.	PG	Type	Part Number
Hood: Side entry				
			H8A-TS-PG16	T1359090116-000
			H8A-TS-M20	T1319080120-000
			H8A-TS-M25	T1319080125-000
			EMV HG-Q-EMV.STO.1.M25.Z	O-1103073-3
Hood: Top entry				
			H8A-TG-M20	T1329080120-000
			H8A-TG-M25	T1329080125-000
			EMV HG-Q-EMV.STO.1.M25.Z	O-1103073-4

HG-Q housings

Plastic glass-fibre reinforced

EMV: Protection against electro-magnetic interference

IP 65

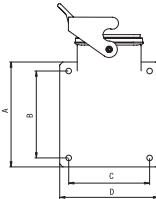
Description		Metr.	PG	Type	Part Number
Cable-to-cable hood: Bottom entry					
		M25		HG-Q.KDO-LB.1.M25.Z	O-1108795-1
		M25		EMV HG-Q-EMV.KDO-LB.1.M25.Z	O-1108795-3
Cable-to-cable hood: Side entry					
		M25		HG-Q.KDS-LB.1.M25.Z	O-1108795-2
		M25		EMV HG-Q-EMV.KDS-LB.1.M25.Z	O-1108795-4
Surface mount housing: Bottom entry					
		M25		HG-Q.AG-LB	O-1103072-1
		M25		EMV HG-Q-EMV.AG-LB	O-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 EMV HG-Q.10-EMV.MC.1	O-1103092-1 O-1103092-8																																			
				HG-Q.10.MC.2 EMV HG-Q.10-EMV.MC.2	O-1103092-2 O-1103092-9																																			
				HG-Q.10.MC.3 EMV HG-Q.10-EMV.MC.3	O-1103092-3 1-1103092-0																																			
	 <table><tr><th colspan="5">Dimensions (mm)</th></tr><tr><th>PN</th><th>A</th><th>B</th><th>C</th><th>D</th></tr><tr><td>O-1, O-8</td><td>70</td><td>58</td><td>54</td><td>66</td></tr><tr><td>O-2, O-9</td><td>70</td><td>60</td><td>60</td><td>70</td></tr><tr><td>O-3, 1-0</td><td>74</td><td>56</td><td>56</td><td>74</td></tr><tr><td>O-4, 1-1</td><td>75</td><td>64</td><td>64</td><td>75</td></tr><tr><td>O-5, 1-2</td><td>120</td><td>105</td><td>105</td><td>120</td></tr></table>	Dimensions (mm)					PN	A	B	C	D	O-1, O-8	70	58	54	66	O-2, O-9	70	60	60	70	O-3, 1-0	74	56	56	74	O-4, 1-1	75	64	64	75	O-5, 1-2	120	105	105	120			HG-Q.10.MC.4 EMV HG-Q.10-EMV.MC.4	O-1103092-4 1-1103092-1
Dimensions (mm)																																								
PN	A	B	C	D																																				
O-1, O-8	70	58	54	66																																				
O-2, O-9	70	60	60	70																																				
O-3, 1-0	74	56	56	74																																				
O-4, 1-1	75	64	64	75																																				
O-5, 1-2	120	105	105	120																																				
				HG-Q.10.MC.5 EMV HG-Q.10-EMV.MC.5	O-1103092-5 1-1103092-2																																			

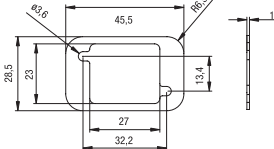
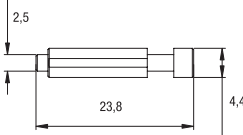
HG-Q accessories

Plastic glass-fibre reinforced

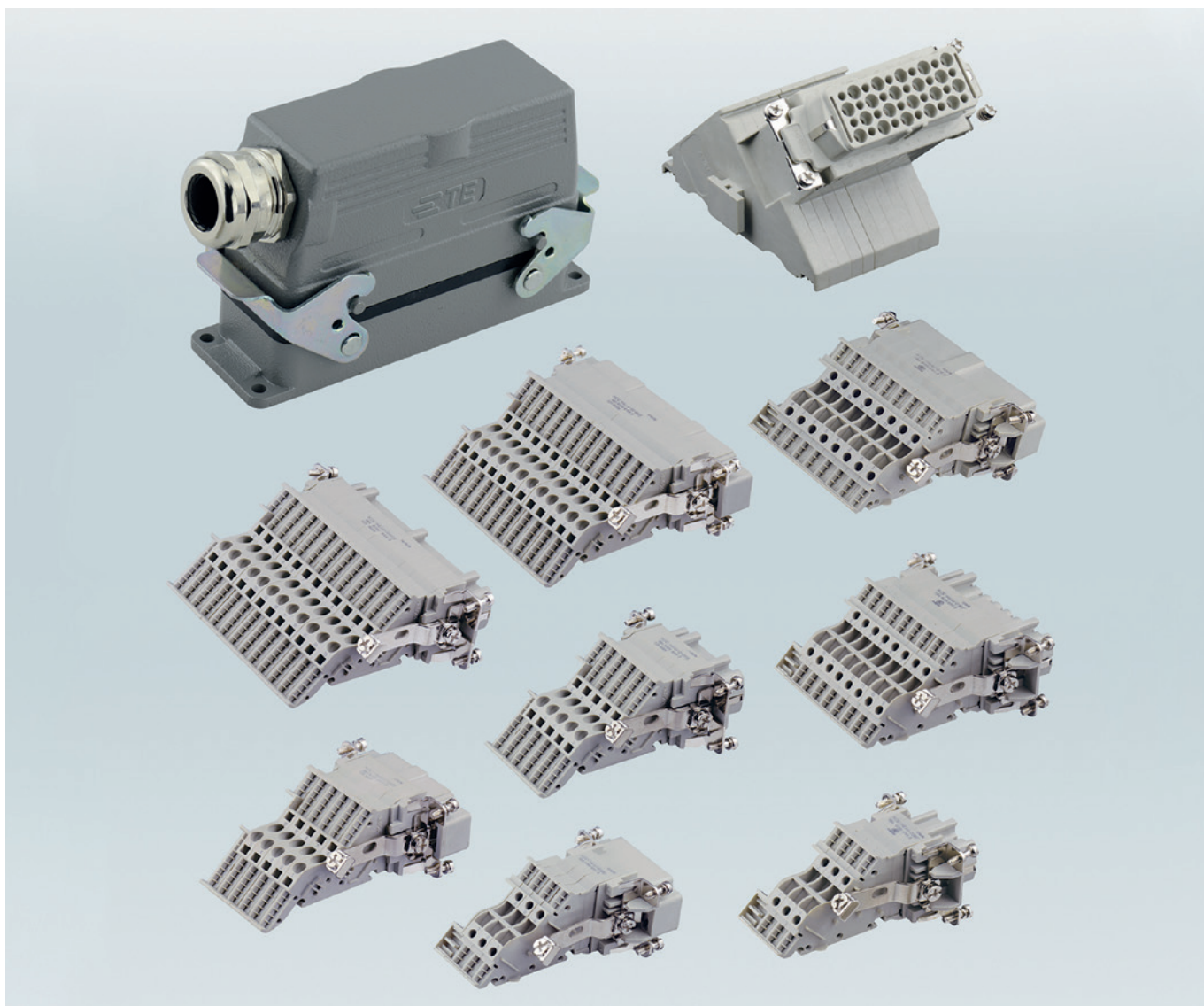
EMV: Protection against electro-magnetic interference

SIZE Q

IP 65

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



RoHS

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

CONTACTS

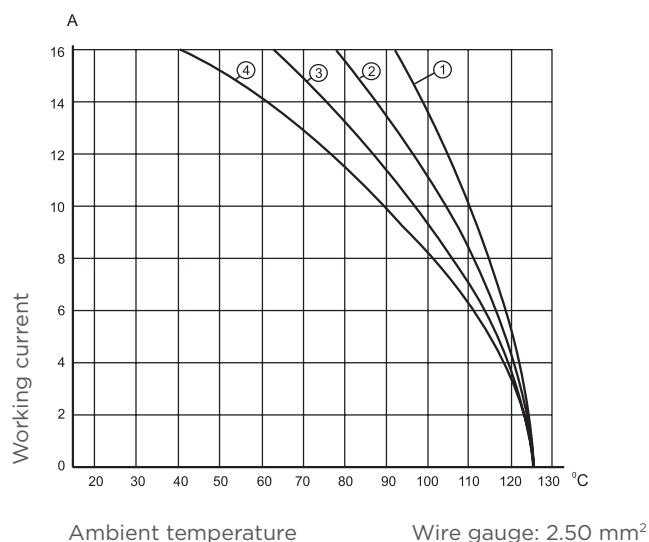
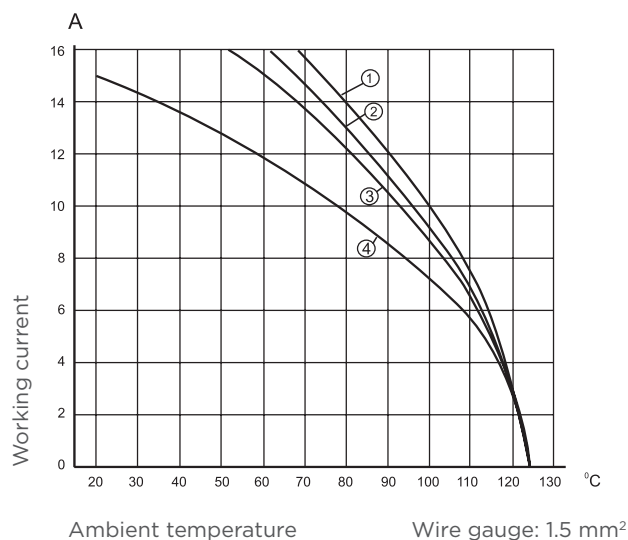
Material	Copper alloy
Surface	Hard silver-plated
Contact resistance	$\leq 4m\Omega$
HEAV Terminal	Screw terminal
- mm ²	0.2-2.5mm ²
- AWG	24-14
HESAV Terminal	Spring terminal
- mm ²	0.5-2.5mm ²
- AWG	20-14

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.



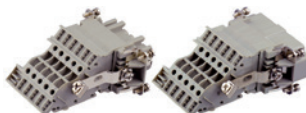
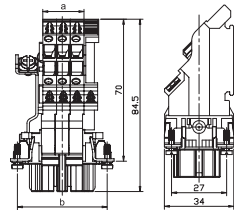
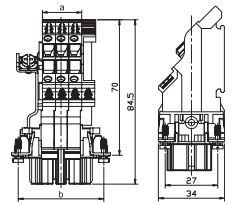
- 1 HEAV-006/HESAV-006
- 2 HEAV-010/HESAV-010
- 3 HEAV-016/HESAV-016
- 4 HEAV-024/HESAV-024

HEAV inserts

LEFT HAND VERSION
SCREW TERMINAL

500V MAX. 16A

6+ 10+
16+ 24+

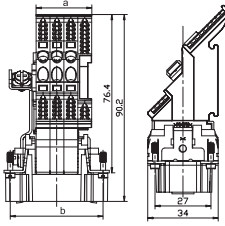
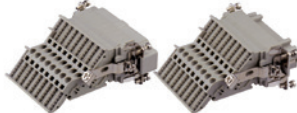
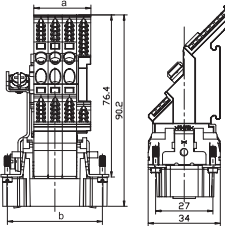
Dimensions (mm)	Type	Type	Part Number																
			Male insert	Female insert															
Screw terminal 6+ 																			
	6-pole	HEAV-006-M	T2090062101-000																
		HEAV-006-F		T2090062201-000															
Screw terminal 10+ 																			
	10-pole	HEAV-010-M	T2090102101-000																
		HEAV-010-F		T2090102201-000															
Left hand version																			
 <table><tr><td>Male insert/ Female insert</td><td>A</td><td>B</td></tr><tr><td>HEAV-006</td><td>20</td><td>44</td></tr><tr><td>HEAV-010</td><td>34</td><td>57</td></tr><tr><td>HEAV-016</td><td>54</td><td>77.5</td></tr><tr><td>HEAV-024</td><td>81</td><td>104</td></tr></table>	Male insert/ Female insert	A	B	HEAV-006	20	44	HEAV-010	34	57	HEAV-016	54	77.5	HEAV-024	81	104				
Male insert/ Female insert	A	B																	
HEAV-006	20	44																	
HEAV-010	34	57																	
HEAV-016	54	77.5																	
HEAV-024	81	104																	
Screw terminal 16+ 																			
	16-pole	HEAV-016-M	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																			
 <table><tr><td>Male insert/ Female insert</td><td>A</td><td>B</td></tr><tr><td>HEAV-006</td><td>20</td><td>44</td></tr><tr><td>HEAV-010</td><td>34</td><td>57</td></tr><tr><td>HEAV-016</td><td>54</td><td>77.5</td></tr><tr><td>HEAV-024</td><td>81</td><td>104</td></tr></table>	Male insert/ Female insert	A	B	HEAV-006	20	44	HEAV-010	34	57	HEAV-016	54	77.5	HEAV-024	81	104				
Male insert/ Female insert	A	B																	
HEAV-006	20	44																	
HEAV-010	34	57																	
HEAV-016	54	77.5																	
HEAV-024	81	104																	

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																			
 <table><tr><td>Male insert/ Female insert</td><td>A</td><td>B</td></tr><tr><td>HEAV-006</td><td>20</td><td>44</td></tr><tr><td>HEAV-010</td><td>34</td><td>57</td></tr><tr><td>HEAV-016</td><td>54</td><td>77.5</td></tr><tr><td>HEAV-024</td><td>81</td><td>104</td></tr></table>	Male insert/ Female insert	A	B	HEAV-006	20	44	HEAV-010	34	57	HEAV-016	54	77.5	HEAV-024	81	104				
Male insert/ Female insert	A	B																	
HEAV-006	20	44																	
HEAV-010	34	57																	
HEAV-016	54	77.5																	
HEAV-024	81	104																	
Spring terminal 16+ 																			
	16-pole	HEAV-016-MS	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																			
 <table><tr><td>Male insert/ Female insert</td><td>A</td><td>B</td></tr><tr><td>HEAV-006</td><td>20</td><td>44</td></tr><tr><td>HEAV-010</td><td>34</td><td>57</td></tr><tr><td>HEAV-016</td><td>54</td><td>77.5</td></tr><tr><td>HEAV-024</td><td>81</td><td>104</td></tr></table>	Male insert/ Female insert	A	B	HEAV-006	20	44	HEAV-010	34	57	HEAV-016	54	77.5	HEAV-024	81	104				
Male insert/ Female insert	A	B																	
HEAV-006	20	44																	
HEAV-010	34	57																	
HEAV-016	54	77.5																	
HEAV-024	81	104																	

HMN Modular Series



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

1. Specifications

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

2. Standards

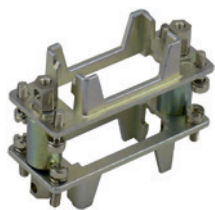
DIN EN 175 301-801
DIN EN 61 984

3. Approvals



HMN modular connectors overview

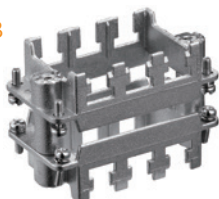
H10A



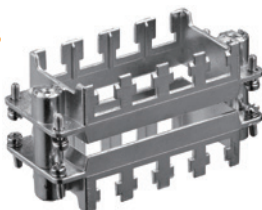
H6B



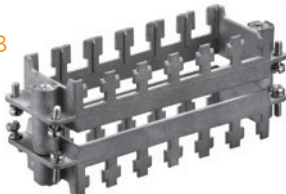
H10B



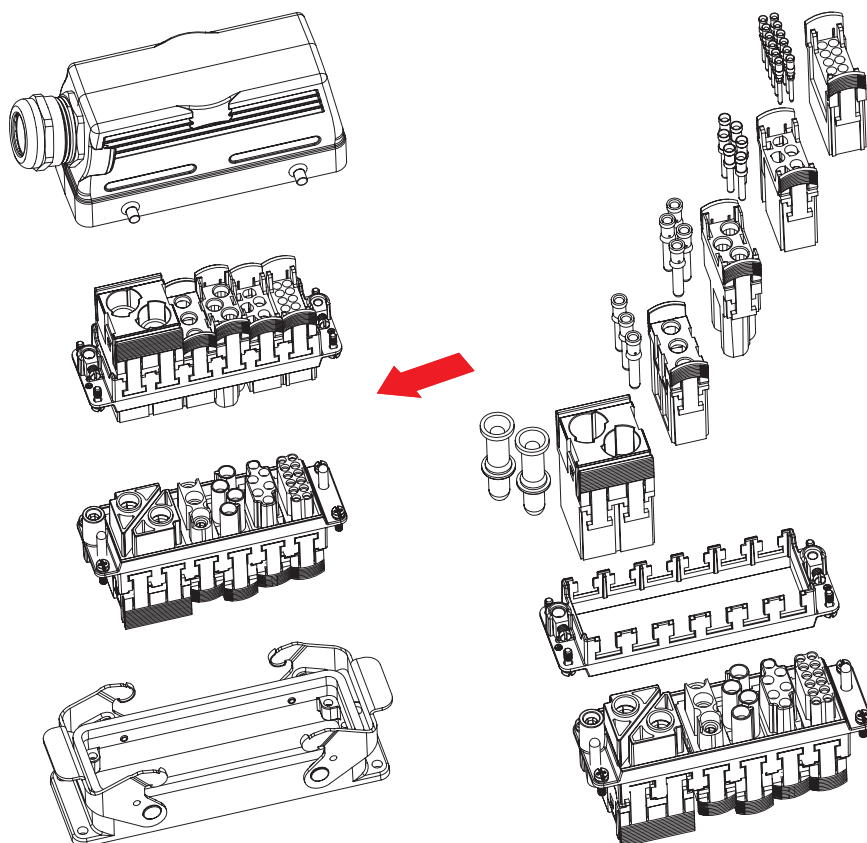
H16B



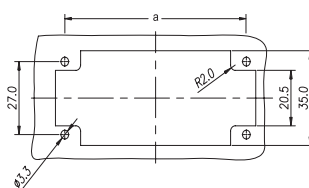
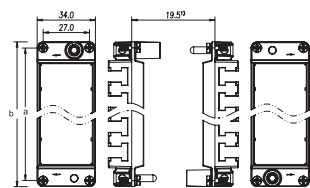
H24B



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

[illegible]

200A/1 Pole module technical characteristics

SpecificationsDIN EN 60 664-1
 DIN EN 61 984
 Number of contacts1 pole

INSERTS

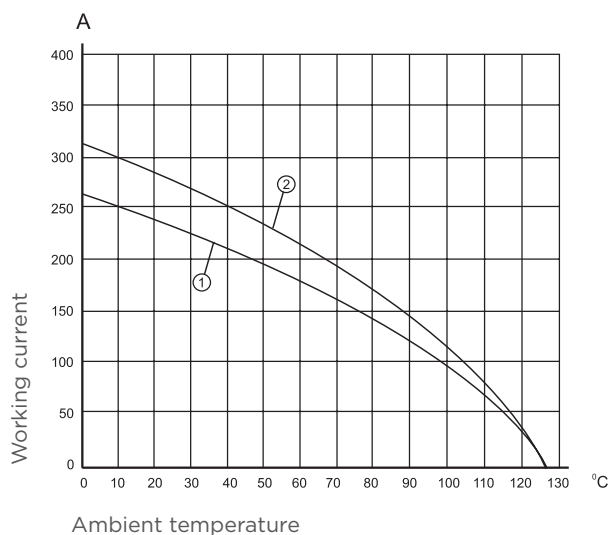
Working current 200A max
 (See current carrying capacity)
 Working voltage 1000V
 Test voltage urms 8KV
 Pollution degree 3
 Insulation resistance $\geq 10^{10}\Omega$
 Material Polycarbonate
 Temperature range -40°C... +125°C
 Flammability acc. to UL94 V0
 Working voltage acc. to UL/CSA..... 600V
 Mechanical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

CONTACTS

MaterialCopper alloy
 SurfaceHard silver-plated
 Contact resistance $\leq 0.3m\Omega$
 Terminal Crimp terminal
 - mm²25-70mm²
 - AWG2-0

CURRENT CARRYING CAPACITY

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



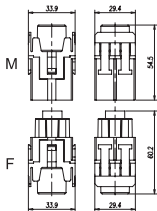
- 1 H24B hood/housing with 3 modules;
wire gauge: 50mm²
- 2 H24B hood/housing with 3 modules;
wire gauge: 70mm²

HMN-001 module inserts

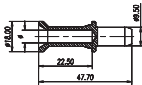
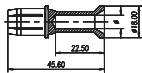
CRIMP TERMINAL

1000V MAX. 200A

1 Pole

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

200A Contact

Tech data Material: copper Contact resistance: $\leq 0.3\text{m}\Omega$ Terminal: crimp connection CHM/Male	200A Male crimp contacts 	Wire gauge	Ø	Stripping length	Crimp contacts, silver-plated	
		mm ²		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 	200A Female crimp contacts 	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

100A/2 Poles module technical characteristics

SpecificationsDIN EN 60 664-1
 DIN EN 61 984
 Number of contacts2 poles

INSERTS

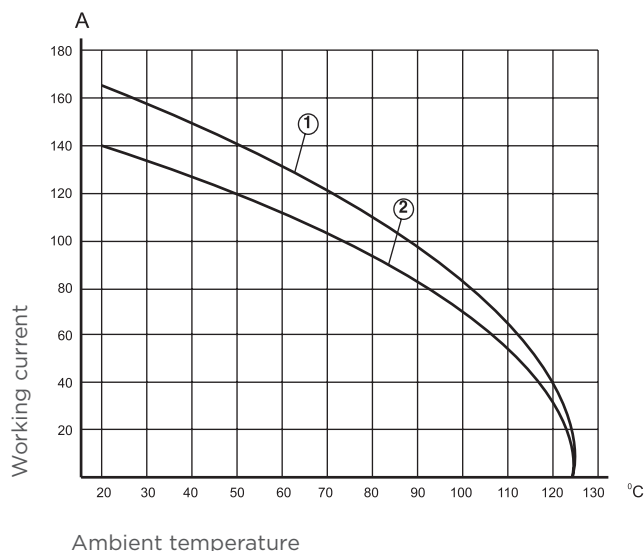
Working current 100A max
 (See current carrying capacity)
 Working voltage 1000V
 Test voltage urms 8KV
 Pollution degree 3
 Insulation resistance $\geq 10^{10}\Omega$
 Material Polycarbonate
 Temperature range -40°C... +125°C
 Flammability acc. to UL94 V0
 Working voltage acc. to UL/CSA..... 600V
 Mechanical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

CONTACTS

MaterialCopper alloy
 SurfaceHard silver-plated
 Contact resistance $\leq 0.3m\Omega$
 Terminal Crimp terminal
 - mm² 10-35mm²
 - AWG 6-2

CURRENT CARRYING CAPACITY

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



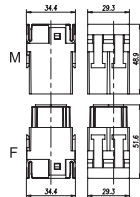
- 1 H24B hood/housing with 3 modules;
wire gauge: 35mm²
- 2 H24B hood/housing with 3 modules;
wire gauge: 25mm²

HMN-D2 module inserts

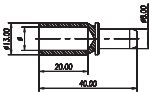
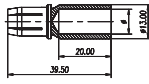
CRIMP TERMINAL

1000V MAX. 100A

2 Poles

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

100A Contact

Tech data Material: copper alloy Contact resistance: $\leq 1\text{m}\Omega$ Terminal: crimp connection CDM/Male	100A Male crimp contacts 	Wire gauge	$\varnothing$	Stripping length	Crimp contacts, silver-plated	
		mm ²		mm	Type	Part Number
CDF/Female 	100A Female crimp contacts 	10	4.3	19	CNM-10	T2050001010-000
		16	5.5	19	CNM-16	T2050001016-000
		25	7	19	CNM-25	T2050001025-000
		35	8.2	16	CNM-35	T2050001035-000
		10	4.3	19	CNF-10	T2050002010-000
		16	5.5	19	CNF-16	T2050002016-000
		25	7	19	CNF-25	T2050002025-000
		35	8.2	16	CNF-35	T2050002035-000

70A/2 Poles module technical characteristics

SpecificationsDIN EN 60 664-1
..... DIN EN 61 984
Number of contacts2 poles

INSERTS

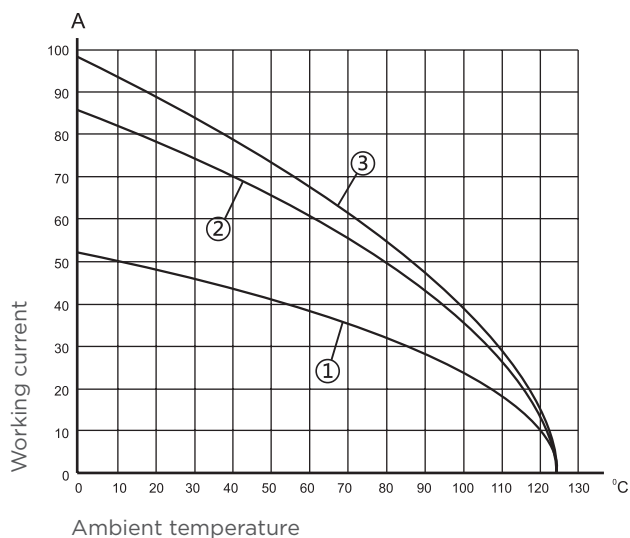
Working current 70A max
(See current carrying capacity)
Working voltage 1000V
Test voltage urms 8KV
Pollution degree 3
Insulation resistance $\geq 10^{10}\Omega$
Material Polycarbonate
Temperature range -40°C... +125°C
Flammability acc. to UL94 V0
Working voltage acc. to UL/CSA 600V
Mechanical working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

CONTACTS

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

CURRENT CARRYING CAPACITY

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



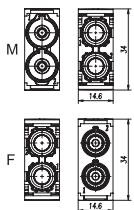
- 1 H24B hood/housing with 6 modules;
wire gauge: 6mm²
- 2 H24B hood/housing with 6 modules;
wire gauge: 16mm²
- 3 H24B hood/housing with 6 modules;
wire gauge: 22mm²

HMN-002 module inserts

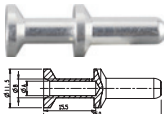
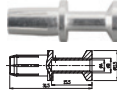
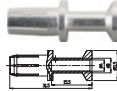
CRIMP TERMINAL

1000V MAX. 70A

2 Poles

Dimensions (mm)		Type	Part Number	
			Male insert	Female insert
Crimp terminal (order crimp contacts separately)	Contact arrangement view from termination side			
		HMN-002-MC	T2111020101-000	
		HMN-002-FC		T2111020201-000

70A Contact

Male		Wire gauge		A	B	Crimp contacts, silver-plated	
		mm ²	AWG			Type	Part Number
Female		10.0mm ²	AWG7	4.3	5.6	CSM-10	T24000001100-000
		16.0mm ²	AWG5	5.5	8.5	CSM-16	T24000001160-000
		25.0mm ²	AWG3	7.0	10.0	CSM-25	T24000001250-000
		10.0mm ²	AWG7	4.3	5.6	CSF-10	T24000002100-000
Female		16.0mm ²	AWG5	5.5	8.5	CSF-16	T24000002160-000
		25.0mm ²	AWG3	7.0	10.0	CSF-25	T24000002250-000

40A/3 Poles module technical characteristics

SpecificationsDIN EN 60 664-1
 DIN EN 61 984
 Number of contacts3 poles

INSERTS

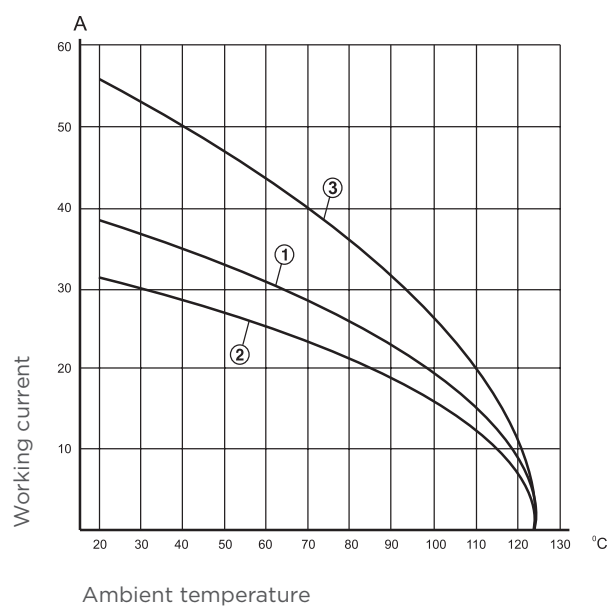
Working current40A max
 (See current carrying capacity)
 Working voltage
 Cable ø up to 5mm..... 690V
 Cable ø up to 7.5mm..... 500V
 Test voltage urms6KV
 Pollution degree3
 Insulation resistance $\geq 10^{10}\Omega$
 Material Polycarbonate
 Temperature range -40°C... +125°C
 Flammability acc. to UL94V0
 Working voltage acc. to UL/CSA600V
 Mechanical working life-mating cycles ≥ 500

CONTACTS

MaterialCopper alloy
 SurfaceHard silver-plated
 Contact resistance $\leq 0.3m\Omega$
 Terminal Crimp terminal
 - mm²1.0-6mm²
 - AWG18-10

CURRENT CARRYING CAPACITY

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



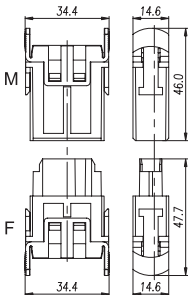
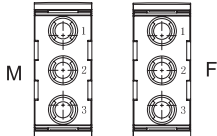
- 1 H24B hood/housing with 6 modules;
wire gauge: 6.0mm²
- 2 H24B hood/housing with 6 modules;
wire gauge: 4.0mm²
- 3 H24B hood/housing with 6 modules;
wire gauge: 10.0mm²

HMN-003 module inserts

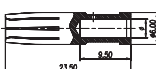
CRIMP TERMINAL

690V MAX. 40A

3 Poles

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

40A Contact

Tech data	40A Male crimp contacts	Wire gauge		Stripping length	Crimp contacts, silver-plated	
		mm ²	AWG		Type	Part Number
Material: copper alloy Contact resistance: ≤0.3mΩ Terminal: crimp connection CMM/Male 		1.5	16	8.0	CMM-1.5	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 	40A Female crimp contacts 	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

40A/4 Poles module technical characteristics

SpecificationsDIN EN 60 664-1
..... DIN EN 61 984
Number of contacts4 poles

INSERTS

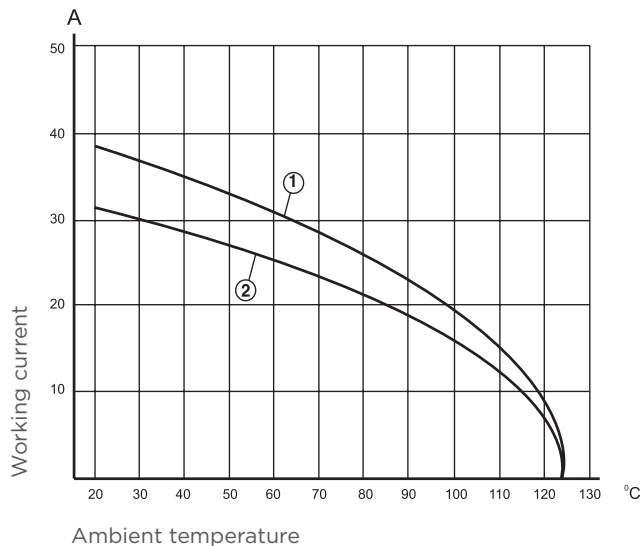
Working current40A max
(See current carrying capacity)
Working voltage
Cable $\varnothing$ up to 5mm.....830V
Cable $\varnothing$ up to 7.5mm.....500V
Test voltage urms8KV
Pollution degree3
Insulation resistance $\geq 10^{10}\Omega$
Material Polycarbonate
Temperature range -40°C... +125°C
Flammability acc. to UL94V0
Working voltage acc. to UL/CSA600V
Mechanical working life-mating cycles ≥ 500

CONTACTS

MaterialCopper alloy
SurfaceHard silver-plated
Contact resistance $\leq 0.3m\Omega$
Terminal Crimp terminal
- mm^2 1.0-6 mm^2
- AWG18-10

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.



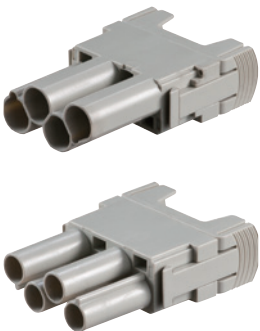
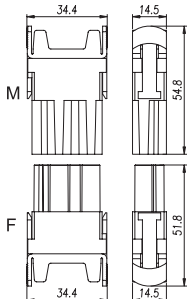
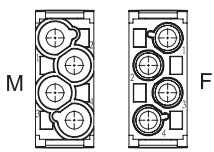
- 1 H24B hood/housing with 6 modules;
wire gauge: 6.0 mm^2
- 2 H24B hood/housing with 6 modules;
wire gauge: 4.0 mm^2

HMN-004 module inserts

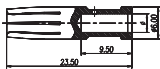
CRIMP TERMINAL

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	40A Male crimp contacts	Wire gauge		Stripping length	Crimp contacts, silver-plated	
		mm ²	AWG		Type	Part Number
Material: copper alloy Contact resistance: ≤0.3mΩ Terminal: crimp connection CMM/Male 		1.5	16	8.0	CMM-1.5	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 	40A Female crimp contacts 	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

16A/5 Poles module technical characteristics

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

INSERTS

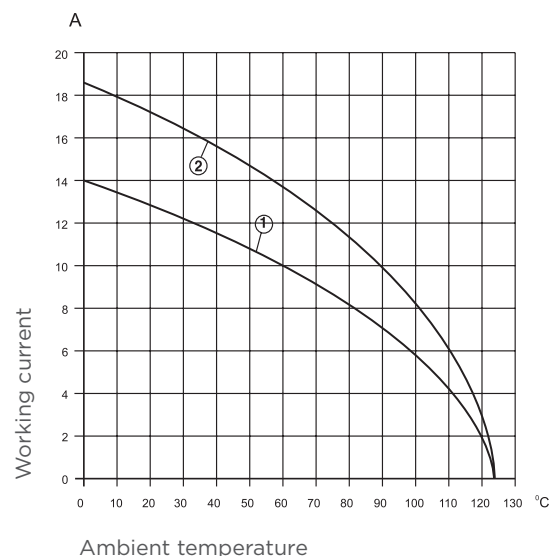
Working current 16A max
 (See current carrying capacity)
 Working voltage 400V
 Test voltage urms 6KV
 Pollution degree 3
 Insulation resistance $\geq 10^{10}\Omega$
 Material Polycarbonate
 Temperature range -40°C... +125°C
 Flammability acc. to UL94 V0
 Working voltage acc. to UL/CSA 600V
 Mechanical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

CONTACTS

Material Copper alloy
 Surface Hard silver-plated
 Hard gold-plated
 Contact resistance $\leq 3m\Omega$
 Terminal Spring terminal
 - mm² 0.5-2.5mm²
 - AWG 20-14

CURRENT CARRYING CAPACITY

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



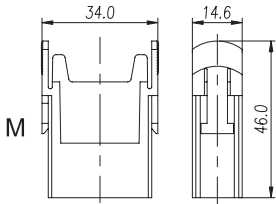
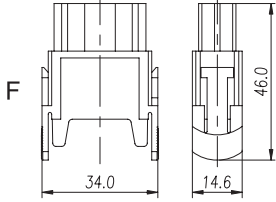
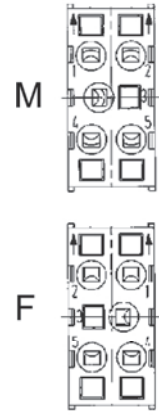
- 1 H24B hood/housing with 6 modules;
wire gauge: 2.5mm²
- 2 H24B hood/housing with 6 modules;
wire gauge: 1.5mm²

HMN-005 module inserts

SPRING TERMINAL

400V MAX. 16A

5 Poles

Dimensions (mm)		Type	Part Number	
			Male insert	Female insert
Spring terminal	Size chart			
		HMN-005-MS	T2110052101-000	
		HMN-005-FS		T2110052201-000
Contact arrangement view from termination side				

16A/6 Poles module technical characteristics

SpecificationsDIN EN 60 664-1
 DIN EN 61 984
 Number of contacts6 poles

INSERTS

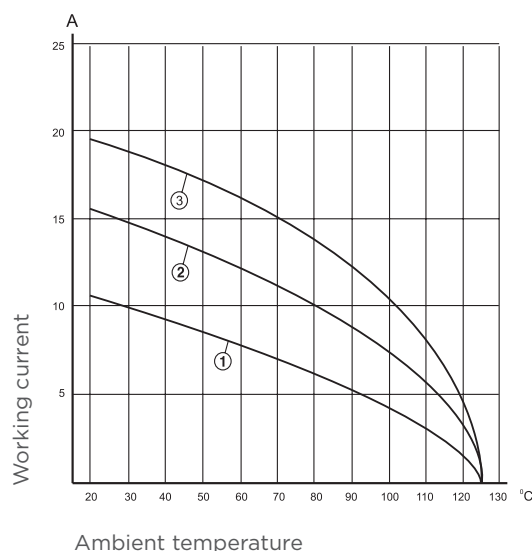
Working current 16A max
 (See current carrying capacity)
 Working voltage..... 500/830V
 Test voltage urms
 HMN-006-M/F..... 6KV
 HMN-006-PM/F..... 8KV
 Pollution degree 3
 Insulation resistance $\geq 10^{10}\Omega$
 Material Polycarbonate
 Temperature range -40°C... +125°C
 Flammability acc. to UL94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

CONTACTS

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

CURRENT CARRYING CAPACITY

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

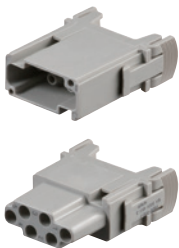
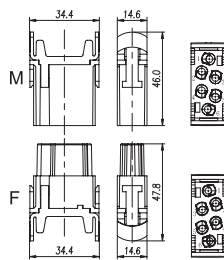
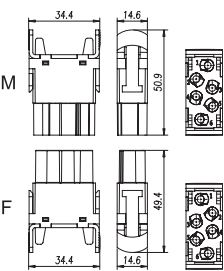


- 1 H24B hood/housing with 6 modules;
wire gauge: 1.5mm²
- 2 H24B hood/housing with 6 modules;
wire gauge: 2.5mm²
- 2 H24B hood/housing with 6 modules;
wire gauge: 4mm²

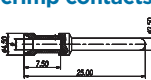
HMN-006 module inserts

CRIMP TERMINAL

6 Poles

Dimensions (mm)		Type	Part Number	
			Male insert	Female insert
Crimp terminal	Contact arrangement view from termination side			
500V max. 16A 		HMN-006-M	T2111062101-000	
		HMN-006-F		T2111062201-000
830V Max. 16A 		HMN-006-PM	T2111063101-000	
		HMN-006-PF		T2111063201-000

16A Contact

Tech data Material: copper alloy Contact resistance: $\leq 1\text{m}\Omega$ Terminal: crimp connection CEM/Male 	16A Male crimp contacts 	Wire gauge		Strip-ping length	Crimp contacts, silver-plated		Crimp contacts, gold-plated	
		mm ²	AWG		Type	Part Number	Type	Part Number
		0.14-0.37	26-22	7.5	CEM-0.3	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

16A/8 Poles module technical characteristics

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

INSERTS

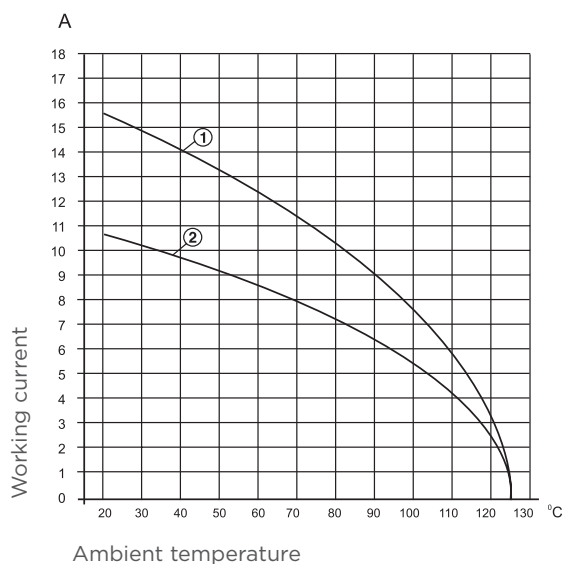
Working current 16A max
 (See current carrying capacity)
 Working voltage400V
 Test voltage urms6KV
 Pollution degree 3
 Insulation resistance $\geq 10^{10}\Omega$
 Material Polycarbonate
 Temperature range -40°C... +125°C
 Flammability acc. to UL94 V0
 Working voltage acc. to UL/CSA 600V
 Mechanical working life-mating cycles ≥ 500

CONTACTS

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

CURRENT CARRYING CAPACITY

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



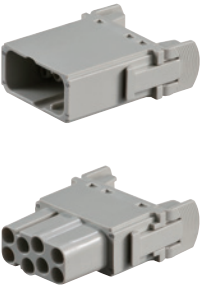
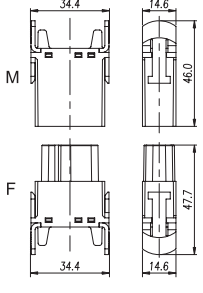
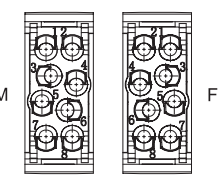
- 1 H24B hood/housing with 6 modules;
wire gauge: 2.5mm²
- 2 H24B hood/housing with 6 modules;
wire gauge: 1.5mm²

HMN-008 module inserts

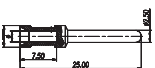
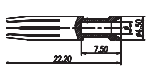
CRIMP TERMINAL

400V MAX. 16A

8 Poles

Dimensions (mm)		Type	Part Number	
			Male insert	Female insert
Crimp terminal (Order crimp contacts separately)	Size chart			
		HMN-008-M	T2111082101-000	
		HMN-008-F		T2111082201-000
Contact arrangement view from termination side				

16A Contact

Tech data	16A Male crimp contacts	Wire gauge		Strip-ping length	Crimp contacts, silver-plated		Crimp contacts, gold-plated	
		mm ²	AWG		Type	Part Number	Type	Part Number
Material: copper alloy Contact resistance: ≤1mΩ Terminal: crimp connection CEM/Male 		0.14-0.37	26-22	7.5	CEM-0.3	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

10A/12 Poles module technical characteristics

SpecificationsDIN EN 60 664-1
 DIN EN 61 984
 Number of contacts12 poles

INSERTS

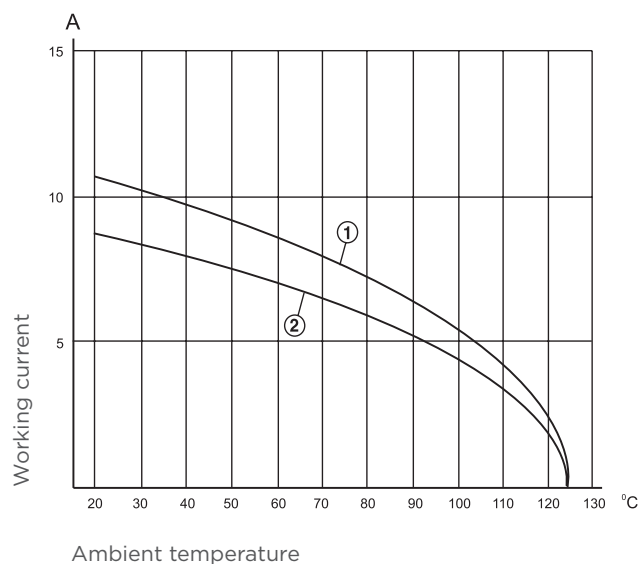
Working current10A max
 (See current carrying capacity)
 Working voltage250V
 Test voltage urms4KV
 Pollution degree3
 Insulation resistance $\geq 10^{10}\Omega$
 Material Polycarbonate
 Temperature range -40°C... +125°C
 Flammability acc. to UL94V0
 Working voltage acc. to UL/CSA600V
 Mechanical working life-mating cycles ≥ 500

CONTACTS

MaterialCopper alloy
 SurfaceHard silver-plated
Hard gold-plated
 Contact resistance $\leq 3m\Omega$
 Terminal Crimp terminal
 - mm²0.14-2.5mm²
 - AWG26-14

CURRENT CARRYING CAPACITY

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



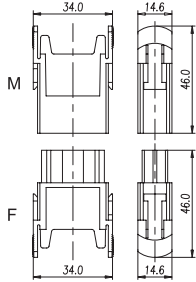
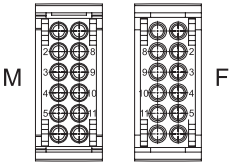
- 1 H24B hood/housing with 6 modules;
wire gauge: 1.5mm²
- 2 H24B hood/housing with 6 modules;
wire gauge: 1.0mm²

HMN-012 module inserts

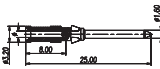
CRIMP TERMINAL

250V MAX. 10A

12 Poles

Dimensions (mm)		Type	Part Number	
			Male insert	Female insert
Crimp terminal (Order crimp contacts separately)	Size chart			
 		HMN-012-M	T2111122101-000	
		HMN-012-F		T2111122201-000
Contact arrangement view from termination side				

10A Contact

Tech data Material: copper alloy Contact resistance: $\leq 3\text{m}\Omega$ Terminal: crimp connection CDM/Male 	10A Male crimp contacts 	Wire gauge		Strip-ping length	Crimp contacts, silver-plated		Crimp contacts, gold-plated	
		mm ²	AWG		Type	Part Number	Type	Part Number
		0.14-0.37	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

10A/17 Poles module technical characteristics

SpecificationsDIN EN 60 664-1
 DIN EN 61 984
 Number of contacts17 poles

INSERTS

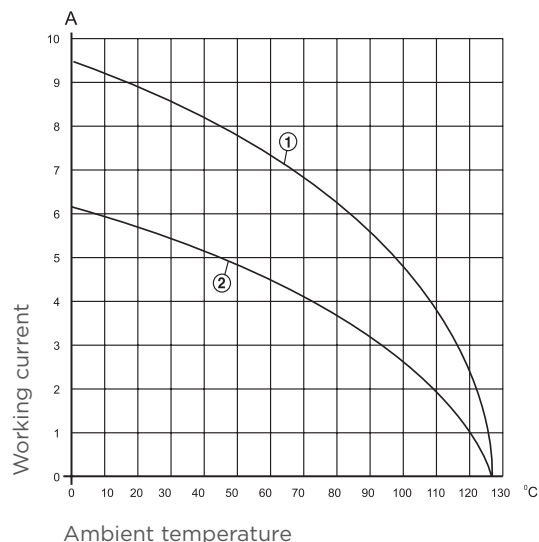
Working current10A max
 (See current carrying capacity)
 Working voltage.....160V
 Test voltage urms2.5KV
 Pollution degree3
 Pollution degree acc. to TUV.....2
 Insulation resistance $\geq 10^{10}\Omega$
 Material Polycarbonate
 Temperature range -40°C... +125°C
 Flammability acc. to UL94V0
 Working voltage acc. to UL/CSA600V
 Mechanical working life-mating cycles ≥ 500

CONTACTS

MaterialCopper alloy
 SurfaceHard silver-plated
Hard gold-plated
 Contact resistance $\leq 3m\Omega$
 Terminal Crimp terminal
 - mm²0.14-2.5mm²
 - AWG26-14

CURRENT CARRYING CAPACITY

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



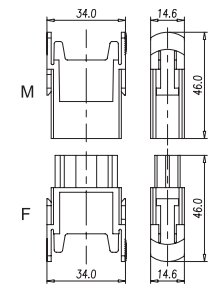
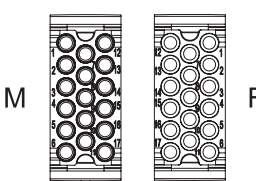
- 1 H24B hood/housing with 6 modules;
wire gauge: 1.5mm²
- 2 H24B hood/housing with 6 modules;
wire gauge: 1.0mm²

HMN-017 module inserts

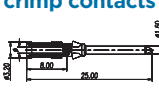
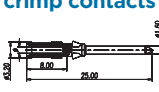
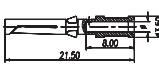
CRIMP TERMINAL

160V MAX. 10A

17 Poles

Dimensions (mm)		Type	Part Number	
			Male insert	Female insert
Crimp terminal (Order crimp contacts separately)	Size chart			
		HMN-017-M	T2111172101-000	
		HMN-017-F		T2111172201-000
Contact arrangement view from termination side				

10A Contact

Tech data Material: copper alloy Contact resistance: $\leq 3\text{m}\Omega$ Terminal: crimp connection CDM/Male	10A Male crimp contacts 	Wire gauge		Strip-ping length	Crimp contacts, silver-plated		Crimp contacts, gold-plated	
		mm ²	AWG		Type	Part Number	Type	Part Number
		0.14-0.37	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
		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/20 Poles module technical characteristics

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

INSERTS

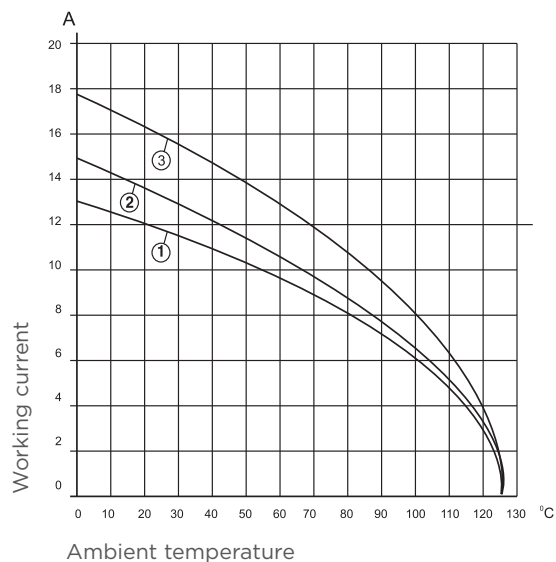
Working current 16A max
 (See current carrying capacity)
 Working voltage 500V
 Test voltage urms 6KV
 Pollution degree 3
 Insulation resistance $\geq 10^{10}\Omega$
 Material Polycarbonate
 Temperature range -40°C... +125°C
 Flammability acc. to UL94 V0
 Working voltage acc. to UL/CSA 600V
 Mechanical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

CONTACTS

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

CURRENT CARRYING CAPACITY

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



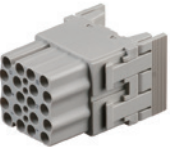
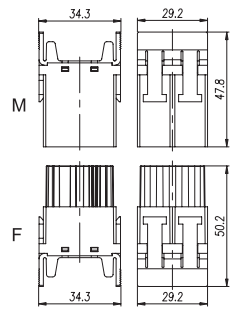
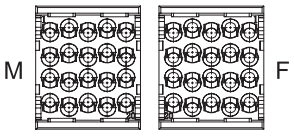
- 1 H24B hood/housing with 3 modules;
wire gauge: 1.5mm²
- 2 H24B hood/housing with 3 modules;
wire gauge: 2.5mm²
- 3 H24B hood/housing with 3 modules;
wire gauge: 4mm²

HMN-020 module inserts

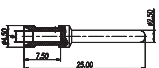
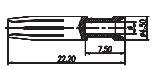
CRIMP TERMINAL

500V MAX. 16A

20 Poles

Dimensions (mm)		Type	Part Number	
			Male insert	Female insert
Crimp terminal (Order crimp contacts separately)	Size chart			
 		HMN-020-M	T2111202101-000	
		HMN-020-F		T2111202201-000
Contact arrangement view from termination side				

16A Contact

Tech data	16A Male crimp contacts	Wire gauge		Strip-ping length	Crimp contacts, silver-plated		Crimp contacts, gold-plated	
		mm ²	AWG		Type	Part Number	Type	Part Number
Material: copper alloy Contact resistance: ≤1mΩ Terminal: crimp connection CEM/Male 		0.14-0.37	26-22	7.5	CEM-0.3	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

5A/25 Poles module technical characteristics

SpecificationsDIN EN 60 664-1
DIN EN 61 984
 Number of contacts25 poles

INSERTS

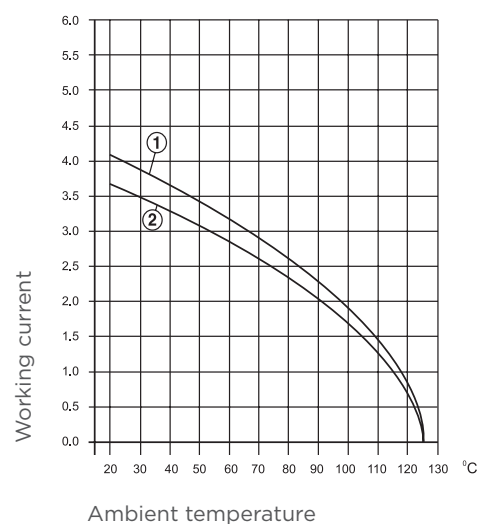
Working current5A max
 (See current carrying capacity)
 Working voltage.....50V
 Test voltage urms0.8KV
 Pollution degree3
 Insulation resistance $\geq 10^{10}\Omega$
 MaterialPolycarbonate
 Temperature range-40°C... +125°C
 Flammability acc. to UL94V0
 Mechanical working life-mating cycles ≥ 500

CONTACTS

MaterialCopper alloy
 SurfaceHard silver-plated
Hard gold-plated
 Contact resistance $\leq 1m\Omega$
 TerminalCrimp terminal
 - mm²0.08-0.52mm²
 - AWG28-20

CURRENT CARRYING CAPACITY

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



Turned contacts

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

Stamped contacts

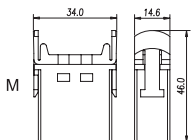
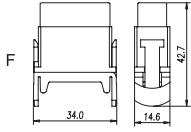
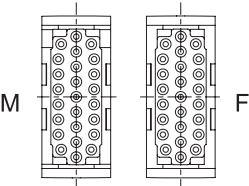
2 H24B hood/housing with 6 modules;
 wire gauge: 0.5mm²

HMN-025 module inserts

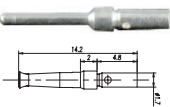
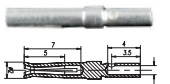
CRIMP TERMINAL

50V MAX. 5A

25 poles

Dimensions (mm)		Type	Part Number	
			Male insert	Female insert
Crimp terminal (Order crimp contacts separately)	Size chart			
 	 	HMN-025-M	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	
		mm ²	AWG		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

D-Sub & RJ45 module technical characteristics

D-SUB MODULE TECHNICAL CHARACTERISTICS

SpecificationsDIN EN 60 664-1
..... DIN EN 61 984
Number of contacts9 poles

INSERTS

Working current5A 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

MaterialCopper alloy
SurfaceHard silver-plated
.....Hard gold-plated
Contact resistance $\leq 1m\Omega$
Terminal Crimp terminal

RJ45 MODULE TECHNICAL CHARACTERISTICS

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

INSERTS

Working current1A 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

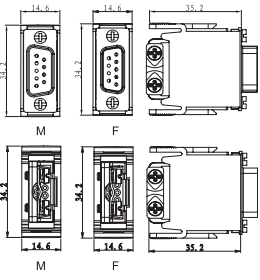
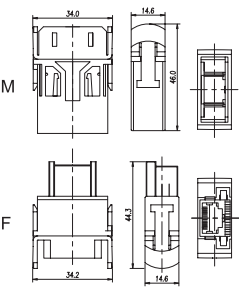
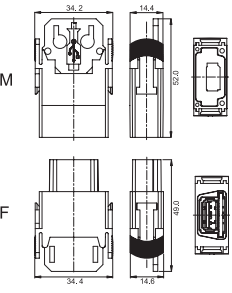
Material Polycarbonate
Temperature range..... -40°C... +70°C
Flammability acc. to UL94 V0
Stranded wire diameter..... 0.89-0.99mm
Wire gauge AWG24-26

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

Quint module technical characteristics

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

CURRENT CARRYING CAPACITY

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

INSERTS

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

QUINT CONTACTS

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

Working current
- Quint 1..... 16A max
- Quint 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 $\geq 10^{10} \Omega$
Material Polycarbonate
Temperature range -40°C ... +125°C
Flammability acc. to UL 94 V0
Mechanical working life-mating cycles..... ≥ 500

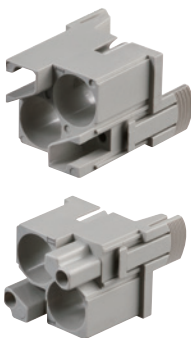
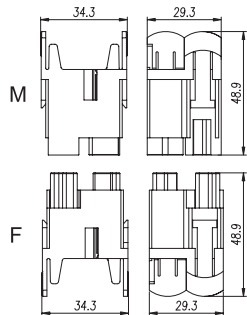
CONTACTS

Material Copper alloy
Surface Hard silver-plated
..... Hard gold-plated
Contact resistance..... $\leq 3m\Omega$
Terminal Crimp terminal
- mm²
- Quint 1..... 0.14-4mm²
- Quint 4 0.14-2.5mm²
- Quint 8 0.08-0.52mm²
- AWG
- Quint 1..... 26-12
- Quint 4 26-14
- Quint 8 28-20

Quint module inserts

CRIMP TERMINAL

2 Poles

Dimensions (mm)		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

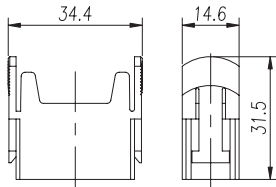
Quint 8-pos

For D-Sub crimp contacts

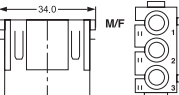
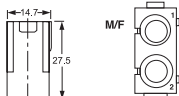
	PIN-Q3-M	T2580081154-000	
	PIN-Q3-F		T2580082154-000

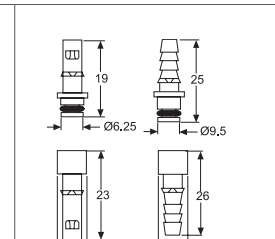
Dummy module inserts

1

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

PNEUMATIC CONTACTS, MODULAR UNITS, WITH 2 OR 3 SEATS

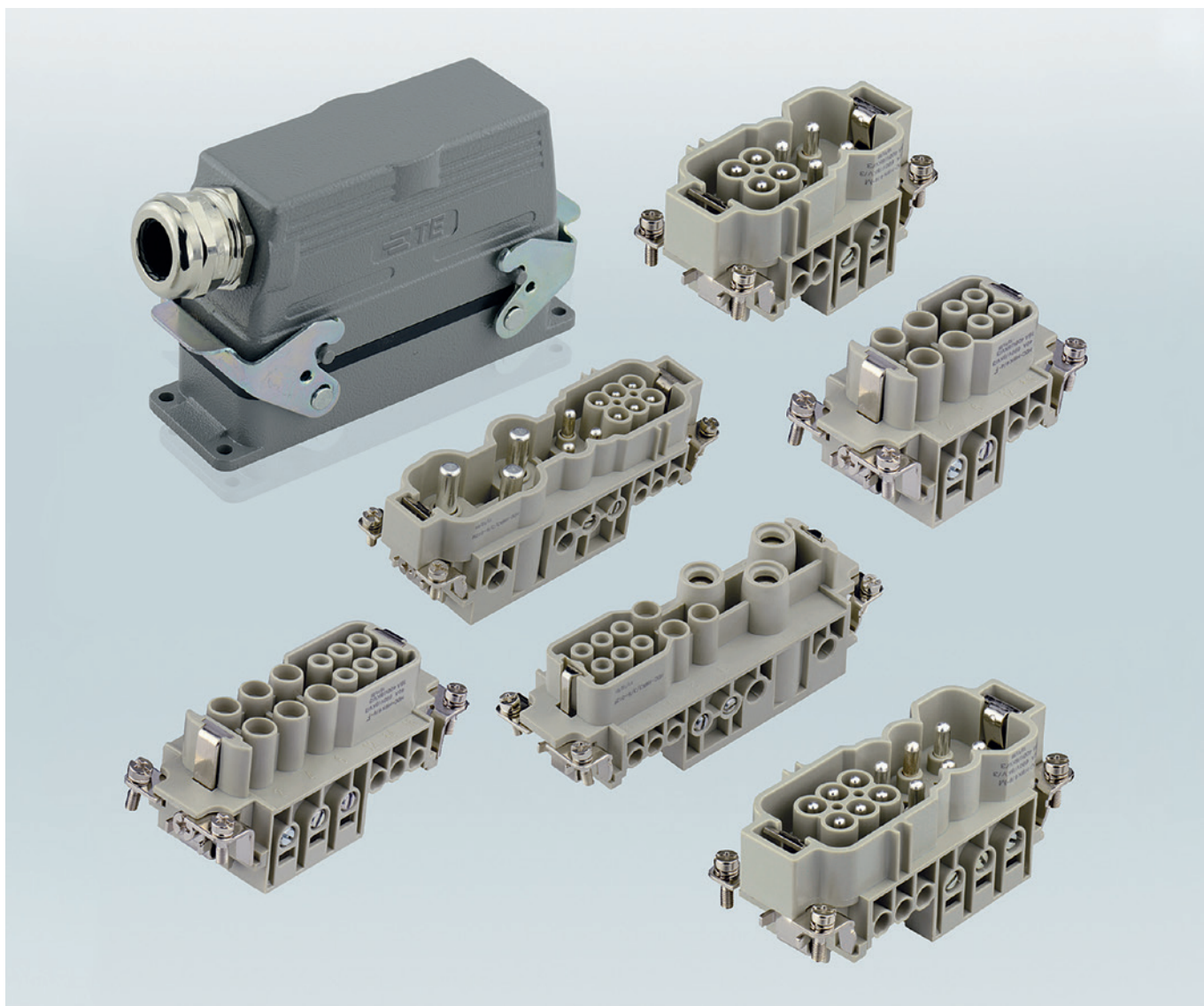
Dimensions (mm)		Type	Part Number	
			Male insert	Female insert
	Contact arrangement view from termination side			
 		HMN-PA3	T2111032301-000	
		HMN-PA2	T2111022301-000	

				
Male contacts without closing valve For tubes with internal ø 1.6mm (For HMN P3 module) For tubes with internal ø 3.0mm (For HMN P3 module) For tubes with internal ø 4.0mm (For HMN P3 module) For tubes with internal ø 6.0mm (For HMN P2 module)		Pneu-c-M1.6 Pneu-c-M3.0 Pneu-c-M4.0 Pneu-c-M6.0	T2090002101-001 T2090002101-002 T2090002101-003 T2090002101-004	
Female contacts without closing valve For tubes with internal ø 1.6mm (For HMN P3 module) For tubes with internal ø 3.0mm (For HMN P3 module) For tubes with internal ø 4.0mm (For HMN P3 module) For tubes with internal ø 6.0mm (For HMN P2 module)		Pneu-c-F1.6 Pneu-c-F3.0 Pneu-c-F4.0 Pneu-c-F6.0		T2090002201-001 T2090002201-002 T2090002201-003 T2090002201-004
Female contacts with closing valve For tubes with internal ø 1.6mm (For HMN P3 module) For tubes with internal ø 3.0mm (For HMN P3 module) For tubes with internal ø 4.0mm (For HMN P3 module) For tubes with internal ø 6.0mm (For HMN P3 module)		Pneu-c-Fw1.6 Pneu-c-Fw3.0 Pneu-c-Fw4.0 Pneu-c-Fw6.0		T2090012201-001 T2090012201-002 T2090012201-003 T2090012201-004
Male contacts (use contacts without closing valve)				

Notes

[illegible]

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



HK8/24 technical characteristics

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

CURRENT CARRYING CAPACITY

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

INSERTS

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

CONTACTS

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

HOODS, HOUSINGS

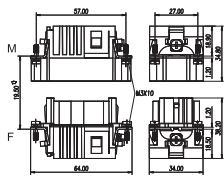
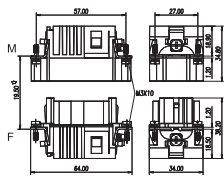
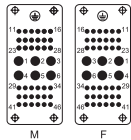
Material	Die cast aluminium
Surface	Powder-coated (RAL 7037)
Locking element.....	Stainless steel, steel-zinc plated
Temperature range	-40°C... +125°C
Degree of protection acc. to DIN40 050	IP65

HK8/24 inserts

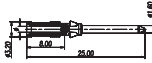
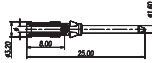
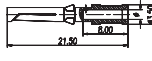
INSERTS FOR H10B HOOD/HOUSING

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

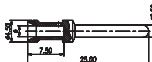
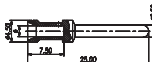
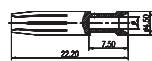
8/24+ Ⓢ

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

10A Contact

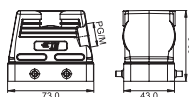
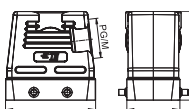
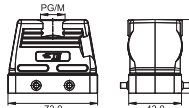
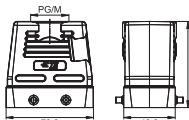
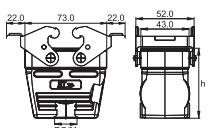
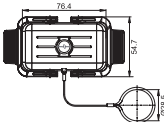
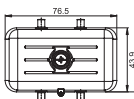
Tech data Material: copper alloy Contact resistance: $\leq 3\text{m}\Omega$ Terminal: crimp connection CDM/Male	10A Male crimp contacts 	Wire gauge		Strip-ping length mm	Crimp contacts, silver-plated		Crimp contacts, gold-plated	
		mm ²	AWG		Type	Part Number	Type	Part Number
		0.14-0.37	26-22	8.0	CDM-0.14	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 Material: copper alloy Contact resistance: $\leq 1\text{m}\Omega$ Terminal: crimp connection CEM/Male	16A Male crimp contacts 	Wire gauge		Strip-ping length mm	Crimp contacts, silver-plated		Crimp contacts, gold-plated	
		mm ²	AWG		Type	Part Number	Type	Part Number
		0.14-0.37	26-22	7.5	CEM-0.3	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

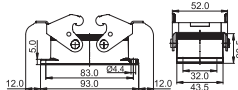
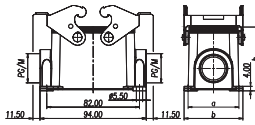
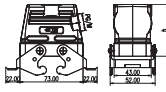
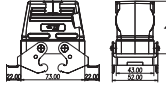
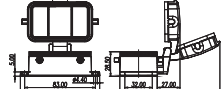
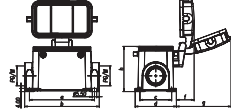
H10B with 2 levers on the hoods/housings

POWDER-COATED, RAL 7037

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

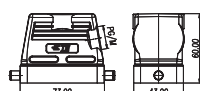
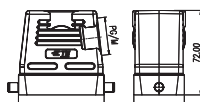
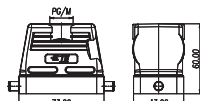
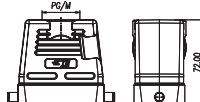
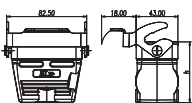
H10B with 2 levers on the hoods/housings

POWDER-COATED, RAL 7037

Dimensions (mm)	Metr.	PG	Type	Part Number																										
Bulkhead mounted																														
			H10B-AGS	T1410101000-000																										
Surface mounted: Side entry																														
	 <table><tr><td>Construction</td><td>A</td><td>B</td><td>H</td></tr><tr><td>Low</td><td>40</td><td>52</td><td>56</td></tr><tr><td>Hight</td><td>45</td><td>57</td><td>74</td></tr></table> 1 Side entry Low construction 2 Side entry High construction	Construction	A	B	H	Low	40	52	56	Hight	45	57	74	M20 M25 M20 M25 M25 M32 M25 M32	PG16 PG21 PG16 PG21 PG21 PG29 PG21 PG29	H10B-SGRS-PG16 H10B-SGRS-PG21 H10B-SGRS-M20 H10B-SGRS-M25 H10B-SGRS-2PG16 H10B-SGRS-2PG21 H10B-SGRS-2M20 H10B-SGRS-2M25 H10B-SGRHS-PG21 H10B-SGRHS-PG29 H10B-SGRHS-M25 H10B-SGRHS-M32 H10B-SGRHS-2PG21 H10B-SGRHS-2PG29 H10B-SGRHS-2M25 H10B-SGRHS-2M32	T1440101116-000 T1440101121-000 T1440101120-000 T1440101125-000 T1440101216-000 T1440101221-000 T1440101220-000 T1440101225-000 T1470101121-000 T1470101129-000 T1470101125-000 T1470101132-000 T1470101221-000 T1470101229-000 T1470101225-000 T1470101232-000													
Construction	A	B	H																											
Low	40	52	56																											
Hight	45	57	74																											
Side entry housing with two levers																														
	 <table><tr><td>Construction</td><td>H</td></tr><tr><td>Low</td><td>60</td></tr><tr><td>Hight</td><td>72</td></tr></table>	Construction	H	Low	60	Hight	72	Low construction High construction	M20 M25 M25 M32	PG16 PG21 PG21 PG29	H10B-TSBS-PG16 H10B-TSBS-PG21 H10B-TSBS-M20 H10B-TSBS-M25 H10B-TSBHS-PG21 H10B-TSBHS-PG29 H10B-TSBHS-M25 H10B-TSBHS-M32	T1250103116-000 T1250103121-000 T1250103120-000 T1250103125-000 T1270103121-000 T1270103129-000 T1270103125-000 T1270103132-000																		
Construction	H																													
Low	60																													
Hight	72																													
Top entry housing with two levers																														
	 <table><tr><td>Construction</td><td>H</td></tr><tr><td>Low</td><td>60</td></tr><tr><td>Hight</td><td>72</td></tr></table>	Construction	H	Low	60	Hight	72	Low construction High construction	M20 M25 M25 M32	PG16 PG21 PG21 PG29	H10B-TGBS-PG16 H10B-TGBS-PG21 H10B-TGBS-M20 H10B-TGBS-M25 H10B-TGBHS-PG21 H10B-TGBHS-PG29 H10B-TGBHS-M25 H10B-TGBHS-M32	T1260103116-000 T1260103121-000 T1260103120-000 T1260103125-000 T1280103121-000 T1280103129-000 T1280103125-000 T1280103132-000																		
Construction	H																													
Low	60																													
Hight	72																													
Bulkhead mounted with 4 bolts																														
 	With protection cover   <table><tr><td>Construction</td><td>A</td><td>B</td><td>C</td><td>D</td><td>F</td><td>G</td><td>H</td></tr><tr><td>Low</td><td>82</td><td>94</td><td>40</td><td>52</td><td>22</td><td>67</td><td>54</td></tr><tr><td>Hight</td><td>82</td><td>94</td><td>45</td><td>57</td><td>20</td><td>65</td><td>74</td></tr></table>	Construction	A	B	C	D	F	G	H	Low	82	94	40	52	22	67	54	Hight	82	94	45	57	20	65	74	1 Side entry Low construction 2 Side entry High construction	M20 M25 M20 M25 M25 M32 M25 M32	PG16 PG21 PG16 PG21 PG21 PG29 PG21 PG29	H10B-AD-BO H10B-SDR-BO-PG16 H10B-SDR-BO-PG21 H10B-SDR-BO-M20 H10B-SDR-BO-M25 H10B-SDR-BO-2PG16 H10B-SDR-BO-2PG21 H10B-SDR-BO-2M20 H10B-SDR-BO-2M25 H10B-SDRH-BO-PG21 H10B-SDRH-BO-PG29 H10B-SDRH-BO-M25 H10B-SDRH-BO-M32 H10B-SDRH-BO-2PG21 H10B-SDRH-BO-2PG29 H10B-SDRH-BO-2M25 H10B-SDRH-BO-2M32	T1430100000-000 T1460100116-000 T1460100121-000 T1460100120-000 T1460100125-000 T1460100216-000 T1460100221-000 T1460100220-000 T1460100225-000 T1490100121-000 T1490100129-000 T1490100125-000 T1490100132-000 T1490100221-000 T1490100229-000 T1490100225-000 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																							

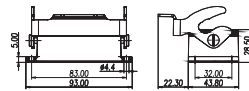
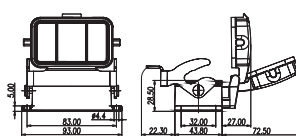
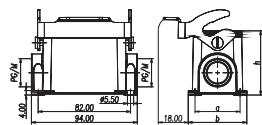
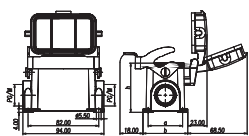
H10B with 1 lever on the hoods/housings

POWDER-COATED, RAL 7037

Dimensions (mm)		Metr.	PG	Type	Part Number						
Hood: Side entry											
	Low construction 	M20 M25	PG16 PG21	H10B-TS-RO-PG16 H10B-TS-RO-PG21 H10B-TS-RO-M20 H10B-TS-RO-M25	T1310100116-000 T1310100121-000 T1310100120-000 T1310100125-000						
	High construction 	M20 M25 M32	PG21 PG29	H10B-TSH-RO-PG21 H10B-TSH-RO-PG29 H10B-TSH-RO-M20 H10B-TSH-RO-M25 H10B-TSH-RO-M32	T1330100121-000 T1330100129-000 T1330100120-000 T1330100125-000 T1330100132-000						
Hood: Top entry											
	Low construction 	M20 M25	PG16 PG21	H10B-TG-RO-PG16 H10B-TG-RO-PG21 H10B-TG-RO-M20 H10B-TG-RO-M25	T1320100116-000 T1320100121-000 T1320100120-000 T1320100125-000						
	High construction 	M20 M25 M32	PG21 PG29	H10B-TGH-RO-PG21 H10B-TGH-RO-PG29 H10B-TGH-RO-M20 H10B-TGH-RO-M25 H10B-TGH-RO-M32	T1340100121-000 T1340100129-000 T1340100120-000 T1340100125-000 T1340100132-000						
Cable-to-cable hood											
	<table><tr><th>Construction</th><th>H</th></tr><tr><td>Low</td><td>62.5</td></tr><tr><td>High</td><td>74.5</td></tr></table>	Construction	H	Low	62.5	High	74.5	M20 M25 M25 M32	PG16 PG21 PG29	H10B-TBF-LB-PG16 H10B-TBF-LB-M20 H10B-TBF-LB-M25 H10B-TBFH-LB-PG21 H10B-TBFH-LB-PG29 H10B-TBFH-LB-M25 H10B-TBFH-LB-M32	T1730103116-000 T1730103120-000 T1730103125-000 T1770103121-000 T1770103129-000 T1770103125-000 T1770103132-000
Construction	H										
Low	62.5										
High	74.5										
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 H10B-ADM-LB	T1510103000-000 T1510103001-000													
Surface mounted: Side entry																	
	1 Side entry Low construction 2 Side entry High construction <table><tr><th>Construction</th><th>A</th><th>B</th><th>H</th></tr><tr><td>Low</td><td>40</td><td>52</td><td>54</td></tr><tr><td>Hight</td><td>45</td><td>57</td><td>74</td></tr></table>	Construction	A	B	H	Low	40	52	54	Hight	45	57	74	M20 M25 M20 M25 M25 M32 M25 M32	PG16 PG21 PG16 PG21 PG21 PG29 PG21 PG29	H10B-SGR-LB-PG16 H10B-SGR-LB-PG21 H10B-SGR-LB-M20 H10B-SGR-LB-M25 H10B-SGR-LB-2PG16 H10B-SGR-LB-2PG21 H10B-SGR-LB-2M20 H10B-SGR-LB-2M25 H10B-SGRH-LB-PG21 H10B-SGRH-LB-PG29 H10B-SGRH-LB-M25 H10B-SGRH-LB-M32 H10B-SGRH-LB-2PG21 H10B-SGRH-LB-2PG29 H10B-SGRH-LB-2M25 H10B-SGRH-LB-2M32	T1610103116-000 T1610103121-000 T1610103120-000 T1610103125-000 T1610103216-000 T1610103221-000 T1610103220-000 T1610103225-000 T1650103121-000 T1650103129-000 T1650103125-000 T1650103132-000 T1650103221-000 T1650103229-000 T1650103225-000 T1650103232-000
Construction	A	B	H														
Low	40	52	54														
Hight	45	57	74														
	With protection cover 1 Side entry Low construction 2 Side entry High construction <table><tr><th>Construction</th><th>A</th><th>B</th><th>H</th></tr><tr><td>Low</td><td>40</td><td>52</td><td>54</td></tr><tr><td>Hight</td><td>45</td><td>57</td><td>74</td></tr></table>	Construction	A	B	H	Low	40	52	54	Hight	45	57	74	M20 M25 M20 M25 M25 M32 M25 M32	PG16 PG21 PG16 PG21 PG21 PG29 PG21 PG29	H10B-SDR-LB-PG16 H10B-SDR-LB-PG21 H10B-SDR-LB-M20 H10B-SDR-LB-M25 H10B-SDR-LB-2PG16 H10B-SDR-LB-2PG21 H10B-SDR-LB-2M20 H10B-SDR-LB-2M25 H10B-SDRH-LB-PG21 H10B-SDRH-LB-PG29 H10B-SDRH-LB-M25 H10B-SDRH-LB-M32 H10B-SDRH-LB-2PG21 H10B-SDRH-LB-2PG29 H10B-SDRH-LB-2M25 H10B-SDRH-LB-2M32	T1620103116-000 T1620103121-000 T1620103120-000 T1620103125-000 T1620103216-000 T1620103221-000 T1620103220-000 T1620103225-000 T1660103121-000 T1660103129-000 T1660103125-000 T1660103132-000 T1660103221-000 T1660103229-000 T1660103225-000 T1660103232-000
Construction	A	B	H														
Low	40	52	54														
Hight	45	57	74														

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

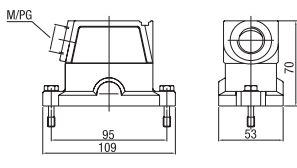
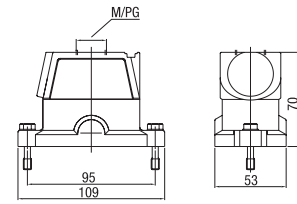
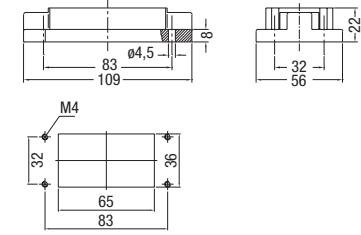
HIP: Pressure-tight, silver-grey

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

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

Pressure-tight up to 5 bar

IP 68 / IP 69 K

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

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

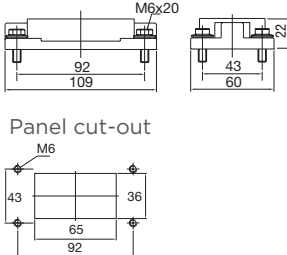
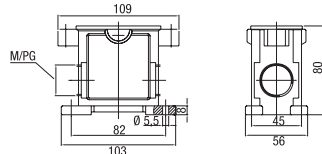
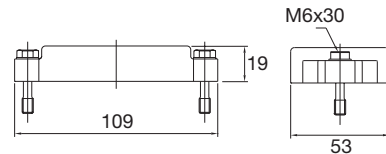
HIP: Pressure-tight, silver-grey

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

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

Pressure-tight up to 5 bar

IP 68 / IP 69 K

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

HWK 6/6 technical characteristics

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

CURRENT CARRYING CAPACITY

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

INSERTS

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

CONTACTS

Material Copper alloy
Surface Hard silver-plated
..... Hard gold-plated
Contact resistance
Power contact $\leq 0.3m\Omega$
Signal contact..... $\leq 1m\Omega$
Terminal Screw terminal
- mm²
Power contact 2.5-10mm²
Signal contact..... 0.5-2.5mm²
- AWG
Power contact 14-8
Signal contact..... 20-14
- Tightening/test torque
Power contact 1.2 Nm
Signal contact..... 0.5 Nm

HOODS, HOUSINGS

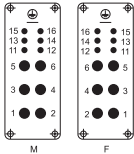
Material Die cast aluminium
Surface Powder-coated (RAL 7037)
Locking element..... Stainless steel, steel-zinc plated
Temperature range -40°C... +125°C
Degree of protection acc. to DIN40 050 IP65

HWK 6/6 inserts

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

HK4/0, HK4/2 technical characteristics

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

INSERTS

Rated current
 Power contact80A max
 Signal contact 16A max
 (See current carrying capacity)
 Working voltage
 Power contact 690V
 Signal contact 400V
 Test voltage urms
 Power contact8KV
 Signal contact6KV
 Pollution degree 3
 Insulation resistance $\geq 10^{10}\Omega$
 Material Polycarbonate
 Temperature range -40°C... +125°C
 Flammability acc. to UL94 V0
 Working voltage acc. to UL/CSA..... 600V/300V
 Mechanical working life-mating cycles ≥ 500

CONTACTS

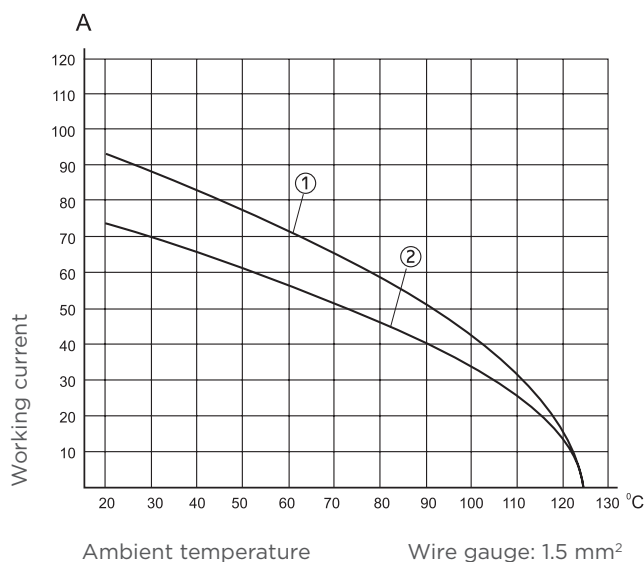
MaterialCopper alloy
 SurfaceHard silver-plated
Hard gold-plated
 Contact resistance
 Power contact $\leq 0.3m\Omega$
 Signal contact $\leq 1m\Omega$
 Terminal Screw terminal
 - mm²
 Power contact1.5-16mm²
 Signal contact 0.5-2.5mm²
 - AWG
 Power contact 16-6
 Signal contact 20-14
 - Tightening/test torque
 Power contact 1.2 Nm
 Signal contact 0.5 Nm

HOODS, HOUSINGS

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

CURRENT CARRYING CAPACITY

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



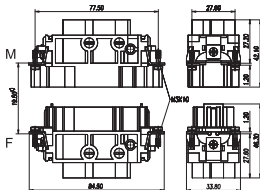
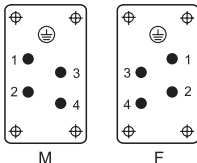
- 1 Wire gauge: 16mm²
- 2 Wire gauge: 10mm²

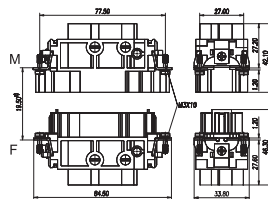
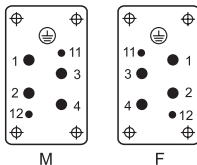
HK4/0, HK4/2 inserts

INSERTS FOR H16B HOOD/HOUSING

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

4/0+⊕ 4/2+⊕

Dimensions (mm)		Type	Part Number	
			Male insert	Female insert
Screw terminal	Size chart			
		HK4/0-004-M	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				
				

HK12/2 technical characteristics

SpecificationsDIN EN 60 664-1
..... DIN EN 61 984
Number of contacts12/2 + PE

INSERTS

Rated current
Power contact40A max
Signal contact10A max
(See current carrying capacity)
Working voltage
Power contact690V
Signal contact250V
Test voltage urms
Power contact8KV
Signal contact4KV
Pollution degree3
Insulation resistance $\geq 10^{10}\Omega$
MaterialPolycarbonate
Temperature range-40°C... +125°C
Flammability acc. to UL94V0
Working voltage acc. to UL/CSA.....600V/300V
Mechanical working life-mating cycles ≥ 500

CONTACTS

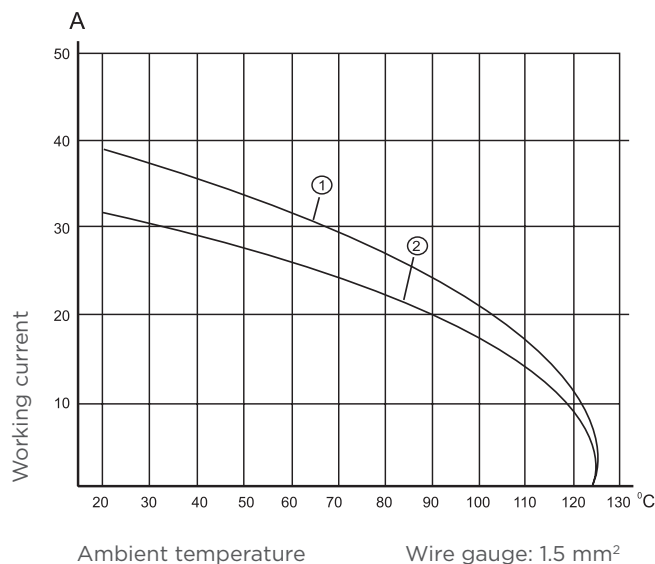
MaterialCopper alloy
SurfaceHard silver-plated
.....Hard gold-plated
Contact resistance
Power contact $\leq 0.3m\Omega$
Signal contact..... $\leq 3m\Omega$
TerminalCrimp terminal
- mm²
Power contact1-6mm²
Signal contact.....0.14-2.5mm²
- AWG
Power contact18-10
Signal contact.....26-14

HOODS, HOUSINGS

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

CURRENT CARRYING CAPACITY

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



1 Wire gauge: 6.0mm²

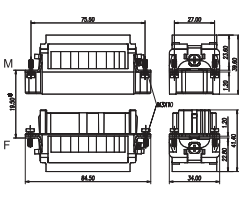
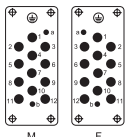
2 Wire gauge: 4.0mm²

HK12/2 inserts

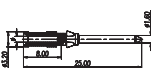
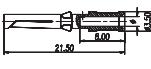
INSERT FOR H16B HOOD/HOUSING

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

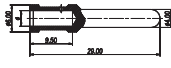
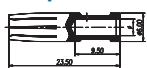
12/2+⊕

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

10A Contact

Tech data	10A Male crimp contacts	Wire gauge		Strip-ping length	Crimp contacts, silver-plated		Crimp contacts, gold-plated	
		mm ²	AWG		Type	Part Number	Type	Part Number
Material: copper alloy		0.14-0.37	26-22	8.0	CDM-0.14	T2020001002-000	DDM-0.14	T2020011002-000
Contact resistance: ≤3mΩ		0.5	20	8.0	CDM-0.5	T2020001005-000	DDM-0.5	T2020011005-000
Terminal: crimp connection		0.75	18	8.0	CDM-0.75	T2020001008-000	DDM-0.75	T2020011008-000
CDM/Male		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

40A Contact

Tech data	40A Male crimp contacts	Wire gauge		Stripping length	Crimp contacts, silver-plated	
		mm ²	AWG		Type	Part Number
Material: copper alloy		1.5	16	8.0	CMM-1.5	T2040001015-000
Contact resistance: ≤0.3mΩ		2.5	14	8.0	CMM-2.5	T2040001025-000
Terminal: crimp connection		4.0	12	8.0	CMM-4.0	T2040001040-000
CMM/Male		6.0	10	8.0	CMM-6.0	T2040001060-000
CMF/Female	40A Female crimp contacts	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

HK6/36 technical characteristics

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

INSERTS

Rated current
Power contact40A max
Signal contact10A max
(See current carrying capacity)
Working voltage
Power contact 690V
Signal contact160V
Test voltage urms
Power contact 6KV
Signal contact2.5KV
Pollution degree 2
Insulation resistance $\geq 10^{10}\Omega$
Material Polycarbonate
Temperature range -40°C... +125°C
Flammability acc. to UL94 V0
Working voltage acc. to UL/CSA..... 600V/300V
Mechanical working life-mating cycles ≥ 500

CONTACTS

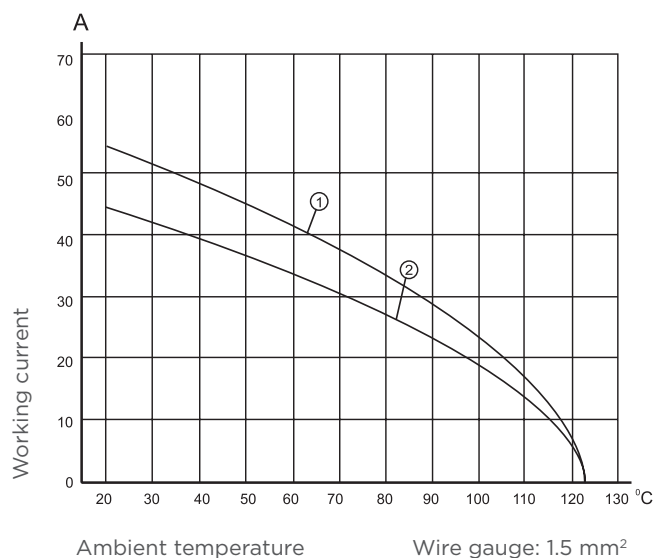
MaterialCopper alloy
SurfaceHard silver-plated
.....Hard gold-plated
Contact resistance
Power contact $\leq 0.3m\Omega$
Signal contact..... $\leq 3m\Omega$
Terminal Crimp terminal
- mm²
Power contact1-6mm²
Signal contact.....0.14-2.5mm²
- AWG
Power contact18-10
Signal contact.....26-14

HOODS, HOUSINGS

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

CURRENT CARRYING CAPACITY

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



1 Wire gauge: 6.0mm²

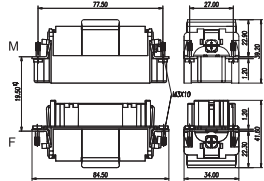
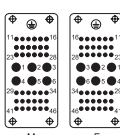
2 Wire gauge: 4.0mm²

HK6/36 inserts

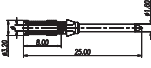
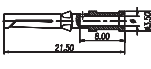
INSERT FOR H16B HOOD/HOUSING

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

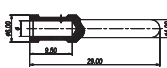
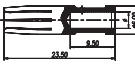
6/36+⊕

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

10A Contact

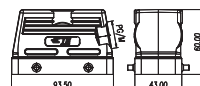
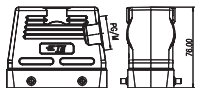
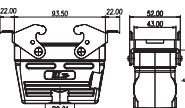
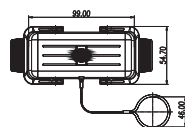
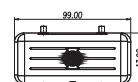
Tech data	10A Male crimp contacts	Wire gauge		Strip-ping length	Crimp contacts, silver-plated		Crimp contacts, gold-plated	
		mm ²	AWG		Type	Part Number	Type	Part Number
Material: copper alloy Contact resistance: ≤3mΩ Terminal: crimp connection CDM/Male 		0.14-0.37	26-22	8.0	CDM-0.14	T2020001002-000	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

40A Contact

Tech data	40A Male crimp contacts	Wire gauge		Stripping length	Crimp contacts, silver-plated	
		mm ²	AWG		Type	Part Number
Material: copper alloy Contact resistance: ≤0.3mΩ Terminal: crimp connection CMM/Male 		1.5	16	8.0	CMM-1.5	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 	40A Female crimp contacts 	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

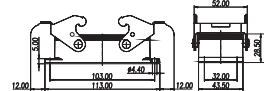
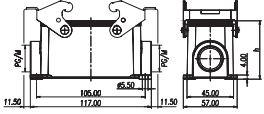
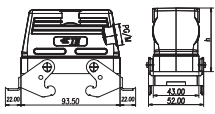
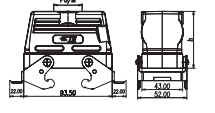
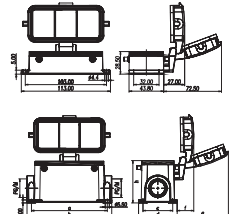
H16B with 2 levers on the hoods/housings

POWDER-COATED, RAL 7037

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

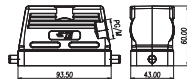
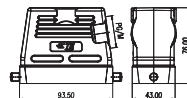
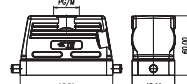
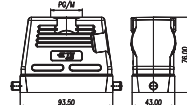
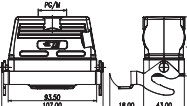
H16B with 2 levers on the hoods/housings

POWDER-COATED, RAL 7037

Dimensions (mm)		Metr.	PG	Type	Part Number																									
Bulkhead mounted																														
				H16B-AGS	T1410161000-000																									
Surface mounted: Side entry																														
	 <table><tr><td>Construction</td><td>H</td></tr><tr><td>Low</td><td>56</td></tr><tr><td>High</td><td>81</td></tr></table>	Construction	H	Low	56	High	81	1 Side entry Low construction 2 Side entry High construction	M25 M25 M25 M32 M25 M32	PG21 PG21 PG21 PG29 PG21 PG29	H16B-SGRS-PG21 H16B-SGRS-M25 H16B-SGRS-2PG21 H16B-SGRS-2M25 H16B-SGRHS-PG21 H16B-SGRHS-PG29 H16B-SGRHS-M25 H16B-SGRHS-M32 H16B-SGRHS-2PG21 H16B-SGRHS-2PG29 H16B-SGRHS-2M25 H16B-SGRHS-2M32	T1440161121-000 T1440161125-000 T1440161221-000 T1440161225-000 T1470161121-000 T1470161129-000 T1470161125-000 T1470161132-000 T1470161221-000 T1470161229-000 T1470161225-000 T1470161232-000																		
Construction	H																													
Low	56																													
High	81																													
Side entry housing with two levers																														
		Low construction High construction	M20 M25 M25 M32	PG16 PG21 PG21 PG29	H16B-TSBS-PG16 H16B-TSBS-PG21 H16B-TSBS-M20 H16B-TSBS-M25 H16B-TSBHS-PG21 H16B-TSBHS-PG29 H16B-TSBHS-M25 H16B-TSBHS-M32	T1250163116-000 T1250163121-000 T1250163120-000 T1250163125-000 T1270163121-000 T1270163129-000 T1270163125-000 T1270163132-000																								
Top entry housing with two levers																														
	 <table><tr><td>Construction</td><td>H</td></tr><tr><td>Low</td><td>60</td></tr><tr><td>High</td><td>76</td></tr></table>	Construction	H	Low	60	High	76	Low construction High construction	M20 M25 M25 M32	PG16 PG21 PG21 PG29	H16B-TGBS-PG16 H16B-TGBS-PG21 H16B-TGBS-M20 H16B-TGBS-M25 H16B-TGBHS-PG21 H16B-TGBHS-PG29 H16B-TGBHS-M25 H16B-TGBHS-M32	T1260163116-000 T1260163121-000 T1260163120-000 T1260163125-000 T1280163121-000 T1280163129-000 T1280163125-000 T1280163132-000																		
Construction	H																													
Low	60																													
High	76																													
Bulkhead mounted with 4 bolts																														
 	With protection cover  <table><tr><td>Construction</td><td>A</td><td>B</td><td>C</td><td>D</td><td>F</td><td>G</td><td>H</td></tr><tr><td>Low</td><td>105</td><td>117</td><td>45</td><td>57</td><td>20</td><td>65</td><td>56</td></tr><tr><td>High</td><td>105</td><td>117</td><td>45</td><td>57</td><td>20</td><td>65</td><td>81</td></tr></table>	Construction	A	B	C	D	F	G	H	Low	105	117	45	57	20	65	56	High	105	117	45	57	20	65	81	1 Side entry Low construction 2 Side entry High construction	M25 M25 M25 M32 M25 M32	PG21 PG21 PG21 PG29 PG21 PG29	H16B-AD-BO H16B-SDR-BO-PG21 H16B-SDR-BO-M25 H16B-SDR-BO-2PG21 H16B-SDR-BO-2M25 H16B-SDRH-BO-PG21 H16B-SDRH-BO-PG29 H16B-SDRH-BO-M25 H16B-SDRH-BO-M32 H16B-SDRH-BO-2PG21 H16B-SDRH-BO-2PG29 H16B-SDRH-BO-2M25 H16B-SDRH-BO-2M32	T1430160000-000 T1460160121-000 T1460160125-000 T1460160221-000 T1460160225-000 T1490160121-000 T1490160129-000 T1490160125-000 T1490160132-000 T1490160221-000 T1490160229-000 T1490160225-000 T1490160232-000
Construction	A	B	C	D	F	G	H																							
Low	105	117	45	57	20	65	56																							
High	105	117	45	57	20	65	81																							

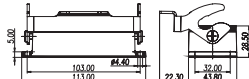
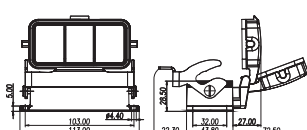
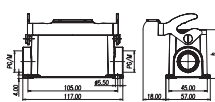
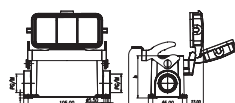
H16B with 1 lever on the hoods/housings

POWDER-COATED, RAL 7037

Dimensions (mm)		Metr.	PG	Type	Part Number						
Hood: Side entry											
	Low construction 	M25 M32	PG21 PG29	H16B-TS-RO-PG21 H16B-TS-RO-PG29 H16B-TS-RO-M25 H16B-TS-RO-M32	T1310160121-000 T1310160129-000 T1310160125-000 T1310160132-000						
	High construction 	M25 M32 M40	PG21 PG29	H16B-TSH-RO-PG21 H16B-TSH-RO-PG29 H16B-TSH-RO-M25 H16B-TSH-RO-M32 H16B-TSH-RO-M40	T1330160121-000 T1330160129-000 T1330160125-000 T1330160132-000 T1330160140-000						
Hood: Top entry											
	Low construction 	M25 M32	PG21 PG29	H16B-TG-RO-PG21 H16B-TG-RO-PG29 H16B-TG-RO-M25 H16B-TG-RO-M32	T1320160121-000 T1320160129-000 T1320160125-000 T1320160132-000						
	High construction 	M25 M32 M40	PG21 PG29	H16B-TGH-RO-PG21 H16B-TGH-RO-PG29 H16B-TGH-RO-M25 H16B-TGH-RO-M32 H16B-TGH-RO-M40	T1340160121-000 T1340160129-000 T1340160125-000 T1340160132-000 T1340160140-000						
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> Low construction High construction	Construction	H	Low	62.5	Hight	74.5	M25 M32 M25 M32 M40	PG21 PG29 PG21 PG29	H16B-TBF-LB-PG21 H16B-TBF-LB-PG29 H16B-TBF-LB-M25 H16B-TBF-LB-M32 H16B-TBFH-LB-PG21 H16B-TBFH-LB-PG29 H16B-TBFH-LB-M25 H16B-TBFH-LB-M32 H16B-TBFH-LB-M40	T1730163121-000 T1730163129-000 T1730163125-000 T1730163132-000 T1770163121-000 T1770163129-000 T1770163125-000 T1770163132-000 T1770163140-000
Construction	H										
Low	62.5										
Hight	74.5										
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												
	 <table border="1" data-bbox="323 1142 542 1238"><tr><td>Construction</td><td>H</td></tr><tr><td>Low</td><td>56</td></tr><tr><td>High</td><td>81</td></tr></table>	Construction	H	Low	56	High	81	1 Side entry Low construction	M20 M25	PG16 PG21	H16B-SGR-LB-PG16 H16B-SGR-LB-PG21 H16B-SGR-LB-M20 H16B-SGR-LB-M25	T1610163116-000 T1610163121-000 T1610163120-000 T1610163125-000
		Construction	H									
		Low	56									
		High	81									
		2 Side entry	M20 M25	PG16 PG21	H16B-SGR-LB-2PG16 H16B-SGR-LB-2PG21 H16B-SGR-LB-2M20 H16B-SGR-LB-2M25	T1610163216-000 T1610163221-000 T1610163220-000 T1610163225-000						
		1 Side entry High construction	M25 M32	PG21 PG29	H16B-SGRH-LB-PG21 H16B-SGRH-LB-PG29 H16B-SGRH-LB-M25 H16B-SGRH-LB-M32	T1650163121-000 T1650163129-000 T1650163125-000 T1650163132-000						
		2 Side entry	M25 M32	PG21 PG29	H16B-SGRH-LB-2PG21 H16B-SGRH-LB-2PG29 H16B-SGRH-LB-2M25 H16B-SGRH-LB-2M32	T1650163221-000 T1650163229-000 T1650163225-000 T1650163232-000						
			 <table border="1" data-bbox="323 1556 542 1653"><tr><td>Construction</td><td>H</td></tr><tr><td>Low</td><td>56</td></tr><tr><td>High</td><td>81</td></tr></table>	Construction	H	Low	56	High	81	1 Side entry Low construction	M20 M25	PG16 PG21
Construction	H											
Low	56											
High	81											
2 Side entry	M20 M25			PG16 PG21	H16B-SDR-LB-2PG16 H16B-SDR-LB-2PG21 H16B-SDR-LB-2M20 H16B-SDR-LB-2M25	T1620163216-000 T1620163221-000 T1620163220-000 T1620163225-000						
1 Side entry High construction	M25 M32			PG21 PG29	H16B-SDRH-LB-PG21 H16B-SDRH-LB-PG29 H16B-SDRH-LB-M25 H16B-SDRH-LB-M32	T1660163121-000 T1660163129-000 T1660163125-000 T1660163132-000						
2 Side entry	M25 M32			PG21 PG29	H16B-SDRH-LB-2PG21 H16B-SDRH-LB-2PG29 H16B-SDRH-LB-2M25 H16B-SDRH-LB-2M32	T1660163221-000 T1660163229-000 T1660163225-000 T1660163232-000						

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

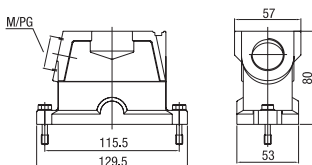
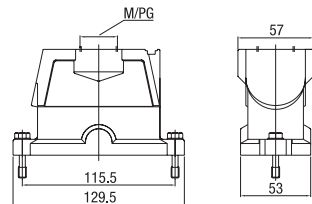
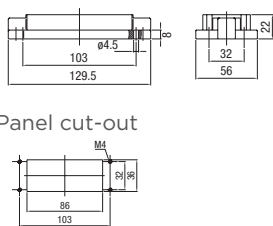
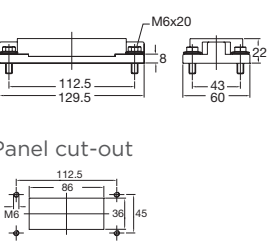
HIP: Pressure-tight, silver-grey

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

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

Pressure-tight up to 5 bar

IP 68 / IP 69 K

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

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

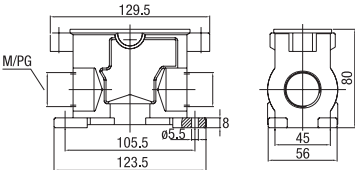
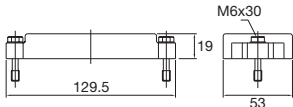
HIP: Pressure-tight, silver-grey

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

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

Pressure-tight up to 5 bar

IP 68 / IP 69 K

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

HK4/8 technical characteristics

SpecificationsDIN EN 60 664-1
 DIN EN 61 984
 Number of contacts4/8 + PE

INSERTS

Rated current
 Power contact80A max
 Signal contact 16A max
 (See current carrying capacity)
 Working voltage
 Power contact400V
 Signal contact400V
 Test voltage urms
 Power contact6KV
 Signal contact6KV
 Pollution degree3
 Insulation resistance $\geq 10^{10}\Omega$
 Material Polycarbonate
 Temperature range -40°C... +125°C
 Flammability acc. to UL94V0
 Working voltage acc. to UL/CSA..... 600V/400V
 Mechanical working life-mating cycles ≥ 500

CONTACTS

MaterialCopper alloy
 SurfaceHard silver-plated
Hard gold-plated
 Contact resistance
 Power contact $\leq 0.1m\Omega$
 Signal contact..... $\leq 5m\Omega$
 Terminal Crimp terminal
 - mm²
 Power contact1.5-16mm²
 Signal contact..... 0.5-2.5mm²
 - AWG
 Power contact 16-6
 Signal contact..... 20-14

- Tightening/test torque

- Power contact

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

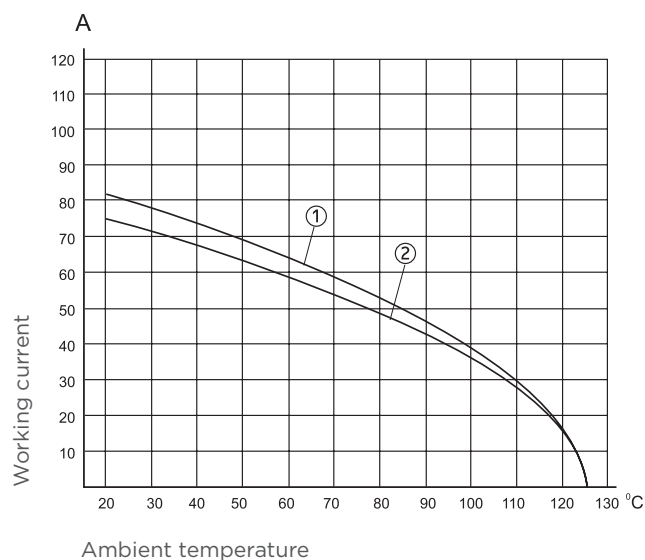
- Signal contact0.5 Nm

HOODS, HOUSINGS

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

CURRENT CARRYING CAPACITY

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



1 Wire gauge: 16mm²

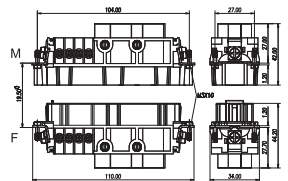
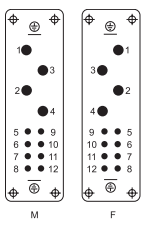
2 Wire gauge: 10mm²

HK4/8 inserts

INSERTS FOR H24B HOOD/HOUSING

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

4/8+ Ⓢ

Dimensions (mm)		Type	Part Number	
			Male insert	Female insert
Screw terminal	Size chart			
		HK4/8-012-M	T2100122101-000	
		HK4/8-012-F		T2100122201-000
Contact arrangement view from termination side				
				

HWK3/3/6 technical characteristics

SpecificationsDIN EN 60 664-1
..... DIN EN 61 984
Number of contacts3/3/6 + PE

INSERTS

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

CONTACTS

MaterialCopper alloy
SurfaceHard silver-plated
.....Hard gold-plated
Contact resistance
Power contact $\leq 0.1m\Omega$
Signal contact..... $\leq 5m\Omega$
Terminal Screw terminal
- mm²
Power 1 contact..... 16-35mm²
Power 2 contact..... 2.5-6mm²
Signal contact..... 0.5-2.5mm²
- AWG
Power 1 contact..... 16-6
Power 2 contact..... 20-14
Signal contact..... 20-14
- Tightening/test torque
- Power contact

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

- Signal contact 0.5 Nm

CURRENT CARRYING CAPACITY

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

HOODS, HOUSINGS

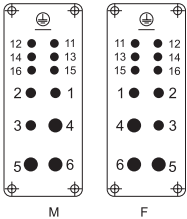
Material Die cast aluminium
Surface Powder-coated (RAL 7037)
Locking element.....Stainless steel, steel-zinc plated
Temperature range -40°C... +125°C
Degree of protection acc. to DIN40 050IP65

HWK3/3/6 inserts

INSERTS FOR H24B HOOD/HOUSING

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

3/3/6+Ⓢ

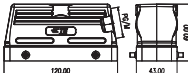
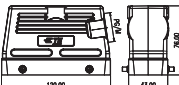
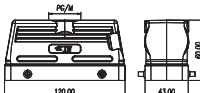
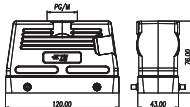
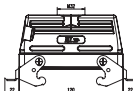
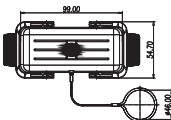
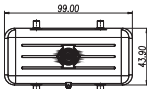
Dimensions (mm)		Type	Part Number	
			Male insert	Female insert
Screw terminal	Contact arrangement view from termination side			
		HK3/3/6-012-M	T2093362101-000	
		HK3/3/6-012-F		T2093362201-000

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															
- 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.....	6-2														
Power 2 contact.....	14-10														
Signal contact.....	20-14														
- Tightening/test torque															
- Power contact	<table><tr><td>mm²</td><td>1.5</td><td>2.5</td><td>4</td><td>6</td><td>10</td><td>16</td></tr><tr><td>Nm</td><td>1.2</td><td>2</td><td>3</td><td>3</td><td>3</td><td>3</td></tr></table>	mm ²	1.5	2.5	4	6	10	16	Nm	1.2	2	3	3	3	3
mm ²	1.5	2.5	4	6	10	16									
Nm	1.2	2	3	3	3	3									
- Signal contact.....	0.5Nm														

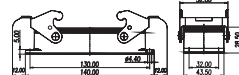
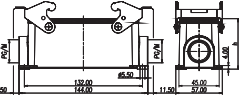
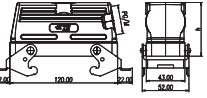
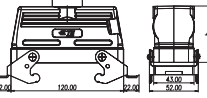
H24B with 2 levers on the hoods/housings

POWDER-COATED, RAL 7037

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

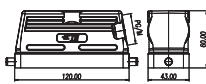
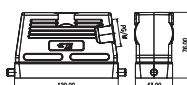
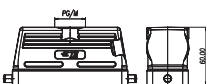
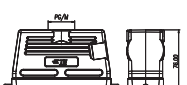
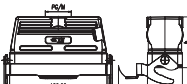
H24B with 2 levers on the hoods/housings

POWDER-COATED, RAL 7037

Dimensions (mm)		Metr.	PG	Type	Part Number																									
Bulkhead mounted																														
				H24B-AGS	T1410241000-000																									
Surface mounted: Side entry																														
	<table><tr><td>Construction</td><td>H</td></tr><tr><td>Low</td><td>56</td></tr><tr><td>Hight</td><td>81</td></tr></table>	Construction	H	Low	56	Hight	81	1 Side entry Low construction 2 Side entry High construction	M25 PG21 M25 PG21 M25 PG29 M32 PG21 M25 PG29 M32	H24B-SGRS-PG21 H24B-SGRS-M25 H24B-SGRS-2PG21 H24B-SGRS-2M25 H24B-SGRHS-PG21 H24B-SGRHS-PG29 H24B-SGRHS-M25 H24B-SGRHS-M32 H24B-SGRHS-2PG21 H24B-SGRHS-2PG29 H24B-SGRHS-2M25 H24B-SGRHS-2M32	T1440241121-000 T1440241125-000 T1440241221-000 T1440241225-000 T1470241121-000 T1470241129-000 T1470241125-000 T1470241132-000 T1470241221-000 T1470241229-000 T1470241225-000 T1470241232-000																			
Construction	H																													
Low	56																													
Hight	81																													
Side entry housing with two levers																														
	<table><tr><td>Construction</td><td>H</td></tr><tr><td>Low</td><td>60</td></tr><tr><td>Hight</td><td>76</td></tr></table>	Construction	H	Low	60	Hight	76	Low construction High construction	M20 M25 M25 M32	PG16 PG21 PG21 PG29	H24B-TSBS-PG16 H24B-TSBS-PG21 H24B-TSBS-M20 H24B-TSBS-M25 H24B-TSBHS-PG21 H24B-TSBHS-PG29 H24B-TSBHS-M25 H24B-TSBHS-M32	T1250243116-000 T1250243121-000 T1250243120-000 T1250243125-000 T1270243121-000 T1270243129-000 T1270243125-000 T1270243132-000																		
Construction	H																													
Low	60																													
Hight	76																													
Top entry housing with two levers																														
	<table><tr><td>Construction</td><td>H</td></tr><tr><td>Low</td><td>60</td></tr><tr><td>Hight</td><td>76</td></tr></table>	Construction	H	Low	60	Hight	76	Low construction High construction	M20 M25 M25 M32	PG16 PG21 PG21 PG29	H24B-TGBS-PG16 H24B-TGBS-PG21 H24B-TGBS-M20 H24B-TGBS-M25 H24B-TGBHS-PG21 H24B-TGBHS-PG29 H24B-TGBHS-M25 H24B-TGBHS-M32	T1260243116-000 T1260243121-000 T1260243120-000 T1260243125-000 T1280243121-000 T1280243129-000 T1280243125-000 T1280243132-000																		
Construction	H																													
Low	60																													
Hight	76																													
Bulkhead mounted with 4 bolts																														
	With protection cover <table><tr><td>Construction</td><td>A</td><td>B</td><td>C</td><td>D</td><td>F</td><td>G</td><td>H</td></tr><tr><td>Low</td><td>132</td><td>144</td><td>45</td><td>57</td><td>20</td><td>65</td><td>56</td></tr><tr><td>Hight</td><td>132</td><td>144</td><td>45</td><td>57</td><td>20</td><td>65</td><td>81</td></tr></table>	Construction	A	B	C	D	F	G	H	Low	132	144	45	57	20	65	56	Hight	132	144	45	57	20	65	81	1 Side entry Low construction 2 Side entry High construction	M25 M25 M25 M32 M25 M32	PG21 PG21 PG21 PG29 PG21 PG29	H24B-AD-BO H24B-SDR-BO-PG21 H24B-SDR-BO-M25 H24B-SDR-BO-2PG21 H24B-SDR-BO-2M25 H24B-SDRH-BO-PG21 H24B-SDRH-BO-PG29 H24B-SDRH-BO-M25 H24B-SDRH-BO-M32 H24B-SDRH-BO-2PG21 H24B-SDRH-BO-2PG29 H24B-SDRH-BO-2M25 H24B-SDRH-BO-2M32	T1430240000-000 T1460240121-000 T1460240125-000 T1460240221-000 T1460240225-000 T1490240121-000 T1490240129-000 T1490240125-000 T1490240132-000 T1490240221-000 T1490240229-000 T1490240225-000 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																							

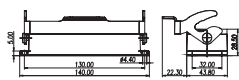
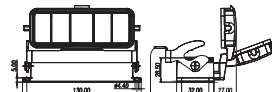
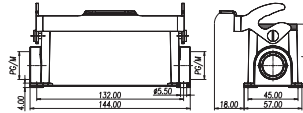
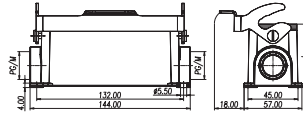
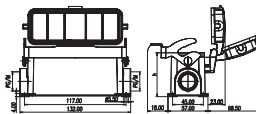
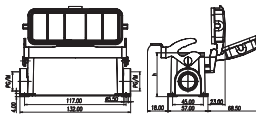
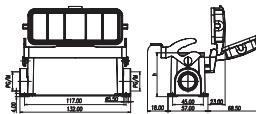
H24B with 1 lever on the hoods/housings

POWDER-COATED, RAL 7037

Dimensions (mm)		Metr.	PG	Type	Part Number						
Hood: Side entry											
	Low construction 	M25 M32	PG21 PG29	H24B-TS-RO-PG21 H24B-TS-RO-PG29 H24B-TS-RO-M25 H24B-TS-RO-M32	T1310240121-000 T1310240129-000 T1310240125-000 T1310240132-000						
	High construction 	M25 M32 M40	PG21 PG29	H24B-TSH-RO-PG21 H24B-TSH-RO-PG29 H24B-TSH-RO-M25 H24B-TSH-RO-M32 H24B-TSH-RO-M40	T1330240121-000 T1330240129-000 T1330240125-000 T1330240132-000 T1330240140-000						
Hood: Top entry											
	Low construction 	M25 M32	PG21 PG29	H24B-TG-RO-PG21 H24B-TG-RO-PG29 H24B-TG-RO-M25 H24B-TG-RO-M32	T1320240121-000 T1320240129-000 T1320240125-000 T1320240132-000						
	High construction 	M25 M32 M40	PG21 PG29	H24B-TGH-RO-PG21 H24B-TGH-RO-PG29 H24B-TGH-RO-M25 H24B-TGH-RO-M32 H24B-TGH-RO-M40	T1340240121-000 T1340240129-000 T1340240125-000 T1340240132-000 T1340240140-000						
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>78.5</td></tr></table> Low construction High construction	Construction	H	Low	62.5	Hight	78.5	M25 M32 M25 M32 M40	PG21 PG29 PG21 PG29	H24B-TBF-LB-PG21 H24B-TBF-LB-PG29 H24B-TBF-LB-M25 H24B-TBF-LB-M32 H24B-TBFH-LB-PG21 H24B-TBFH-LB-PG29 H24B-TBFH-LB-M25 H24B-TBFH-LB-M32 H24B-TBFH-LB-M40	T1730242121-000 T1730242129-000 T1730242125-000 T1730242132-000 T1770243121-000 T1770243129-000 T1770243125-000 T1770243132-000 T1770243140-000
Construction	H										
Low	62.5										
Hight	78.5										
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  <table border="1"><tr><td>Construction</td><td>H</td></tr><tr><td>Low</td><td>56</td></tr><tr><td>Hight</td><td>81</td></tr></table> 1 Side entry High construction 	Construction	H	Low	56	Hight	81	M20 M25 M20 M25 M25 M32 M25 M32	PG16 PG21 PG16 PG21 PG21 PG29 PG21 PG29	H24B-SGR-LB-PG16 H24B-SGR-LB-PG21 H24B-SGR-LB-M20 H24B-SGR-LB-M25 H24B-SGR-LB-2PG16 H24B-SGR-LB-2PG21 H24B-SGR-LB-2M20 H24B-SGR-LB-2M25 H24B-SGRH-LB-PG21 H24B-SGRH-LB-PG29 H24B-SGRH-LB-M25 H24B-SGRH-LB-M32 H24B-SGRH-LB-2PG21 H24B-SGRH-LB-2PG29 H24B-SGRH-LB-2M25 H24B-SGRH-LB-2M32	T1610243116-000 T1610243121-000 T1610243120-000 T1610243125-000 T1610243216-000 T1610243221-000 T1610243220-000 T1610243225-000 T1650243121-000 T1650243129-000 T1650243125-000 T1650243132-000 T1650243221-000 T1650243229-000 T1650243225-000 T1650243232-000	
Construction	H											
Low	56											
Hight	81											
	With protection cover 	1 Side entry Low construction  <table border="1"><tr><td>Construction</td><td>H</td></tr><tr><td>Low</td><td>56</td></tr><tr><td>Hight</td><td>81</td></tr></table> 1 Side entry High construction 	Construction	H	Low	56	Hight	81	M20 M25 M20 M25 M25 M32 M25 M32	PG16 PG21 PG16 PG21 PG21 PG29 PG21 PG29	H24B-SDR-LB-PG16 H24B-SDR-LB-PG21 H24B-SDR-LB-M20 H24B-SDR-LB-M25 H24B-SDR-LB-2PG16 H24B-SDR-LB-2PG21 H24B-SDR-LB-2M20 H24B-SDR-LB-2M25 H24B-SDRH-LB-PG21 H24B-SDRH-LB-PG29 H24B-SDRH-LB-M25 H24B-SDRH-LB-M32 H24B-SDRH-LB-2PG21 H24B-SDRH-LB-2PG29 H24B-SDRH-LB-2M25 H24B-SDRH-LB-2M32	T1620243116-000 T1620243121-000 T1620243120-000 T1620243125-000 T1620243216-000 T1620243221-000 T1620243220-000 T1620243225-000 T1660243121-000 T1660243129-000 T1660243125-000 T1660243132-000 T1660243221-000 T1660243229-000 T1660243225-000 T1660243232-000
Construction	H											
Low	56											
Hight	81											

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

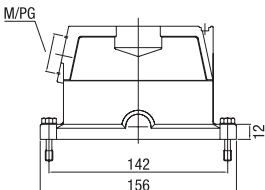
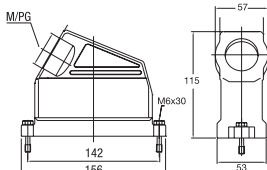
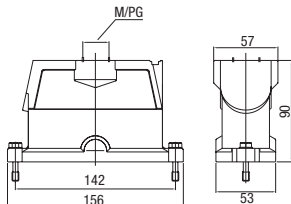
HIP: Pressure-tight, silver-grey

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
Hood: Side entry, Standard construction					
		M40	21 29	HIP HIP.24/64.STS.1.21.G HIP.24/64.STS.1.29 G HIP.24/64.STS.1.M40.G	1-1102658-5 1-1102660-5 O-1106473-2
		M40	29	HIP-K HIP-K.24/64.STS.1.29.G HIP-K.24/64.STS.1.M40.G	2-1102660-5 O-1106473-4
		M25 M32 M40	29	EMV-K EMV-K.24/64.STS.1.29.G EMV-K.24/64.STS.1.M25.G EMV-K.24/64.STS.1.M32.G EMV-K.24/64.STS.1.M40.G	4-1102755-5 O-1102983-1 O-1106461-8 O-1106461-3
		M40	29 36	HIP HIP-KF.24/64.STS.1.29.G HIP-KF.24/64.STS.1.36.G HIP-KF.24/64.STS.1.M40.G	1-1102622-5 1-1102623-5 O-1106474-1
		M40	29 36	HIP-K HIP-KF/K.24/64.STS.1.29.G HIP-KF/K. 24/64.STS.1.36G HIP-KF/K.24/64.STS.1.M40.G	2-1102622-5 2-1102623-5 O-1106474-2
		M40	29 36	EMV-K EMV-KF/K.24/64.STS.1.29.G EMV-KF/K.24/64.STS.1.36.G EMV-KF/K.24/64.STS.1.M40.G	4-1102732-5 4-1102733-5 O-1106462-2
Hood: Top entry, Standard construction					
		M40			
		2xM32 M40	21 29	HIP HIP.24/64.STO.1.21.G HIP.24/64.STO.1.29.G HIP.24/64.STO.1.M40.G	1-1102662-5 1-1102664-5 O-1106473-1
		M40 2xM40	29	HIP-K HIP-K.24/64.STO.1.29.G HIP-K.24/64.STO.2.M32.G HIP-K.24/64.STO.1.M40.G	2-1102664-5 O-1102792-1 O-1106473-3
		2xM40	29	EMV-K EMV-K.24/64.STO.1.29.G EMV-K.24/64.STO.1.M40.G	4-1102759-5 O-1106461-4
		2xM40			

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

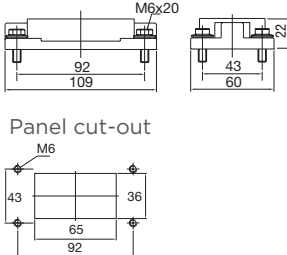
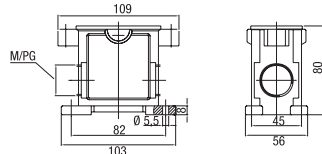
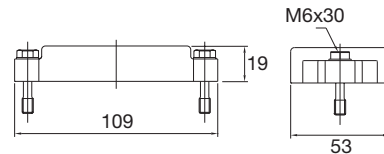
HIP: Pressure-tight, silver-grey

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

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

Pressure-tight up to 5 bar

IP 68 / IP 69 K

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

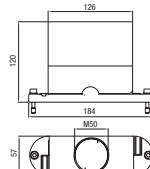
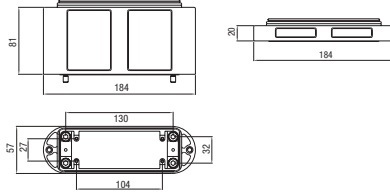
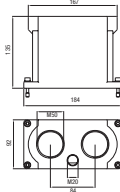
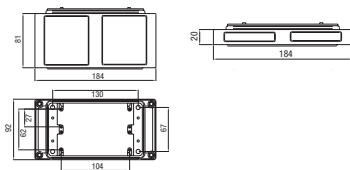
HF-HIP-K 8/HF-EMV-K 8, HF-HIP-K 12/HF-EMV-K 12 housings

HIP: Pressure-tight, silver-grey

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

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

Screw lock on hood

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

Connectors for Power Supply and Power Circuits

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

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

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

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

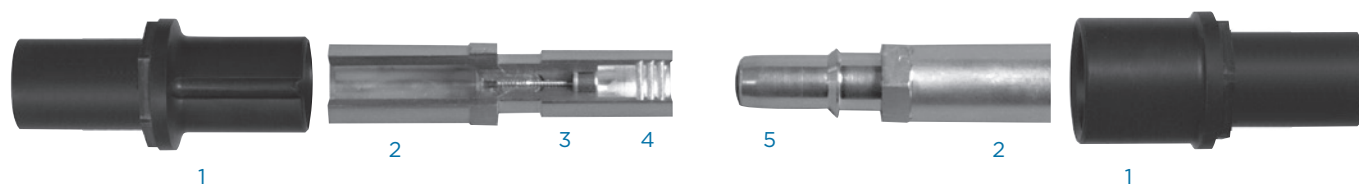
We also offer solutions for your application specific requirements.

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

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

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

Coil Spring Power Contact



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

CRIMP FERRULE

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

MALE/FEMALE CONTACT

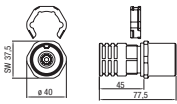
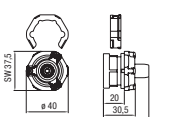
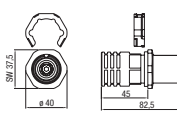
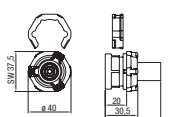
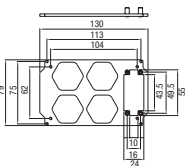
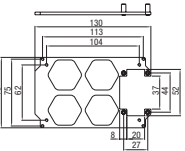
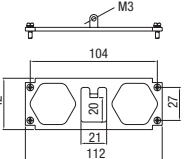
- Wear-resistant basic material
- Worn parts can be individually exchanged
- Surface coating according to customer application
- 30% reduced mating and pulling forces
- 50% increase of making cycles
- Variable wire termination

Connector overview

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

HF-13 module

350A/3KV

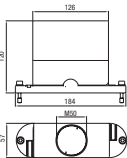
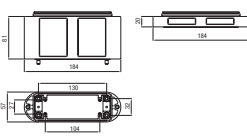
Description	Dimensions (mm)	Type	Part Number	
			Male insert	Female insert
		HF.13.Sti.	O-1110950-2	
		HF.13.Sti.E	O-1110950-4	
		HF.13.Bu.		O-1110951-2
		HF.13.Bu.E		O-1110951-4
			Top	Bottom
3 x for power 1 x for earth 1 x for signal (HA.10) Assembly in HF.12 Housings			O-1110955-3	O-1110955-1
3 x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

HF.8 housings

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

Screw lock on hood

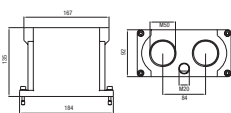
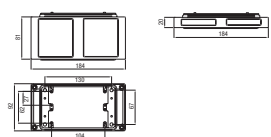
IP 68 / IP 69 K

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

HF.12 housings

Screw lock on hood

IP 68 / IP 69 K

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

Crimping sleeves

CRIMPING SLEEVES FOR CONTACT SERIES HF-13

MAX. 350A

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

SUITABLE TOOL

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

Notes

[illegible]

IP68, IP65 Hoods and Housings overview



1. Specifications

DIN VDE 0110 Concerning clearance and clearance distances

DIN VDE 0627 Connectors and plug devices

2. Standards

DIN EN 60 664-1

DIN EN 61 984

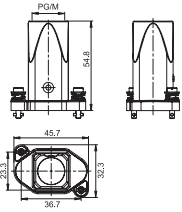
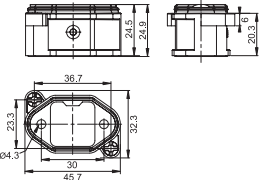
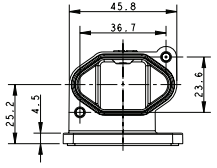
3. Approvals



RoHS

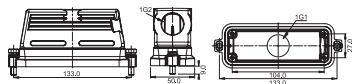
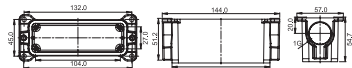
HPR (IP68) series hoods/housings

H3APR (IP68) SERIES

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

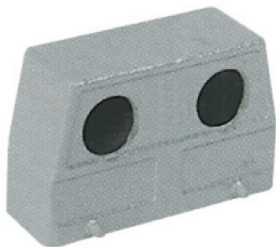
HB hoods/housings with central locking lever

HB (IP67) SERIES

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

Special hoods

SPECIAL HOODS (IP65) SERIES

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

HA series hoods/housings

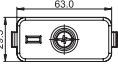
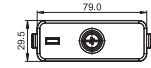
H3A INCLUDE METAL AND PLASTIC SHELLS

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 H3A-MTG-M20		M20	PG11	H3A-TG-PG11 H3A-TG-M20
Side entry				Side entry			
	M20	PG11	H3A-MTS-PG11 H3A-MTS-M20		M20	PG11	H3A-TS-PG11 H3A-TS-M20
Bulkhead mounting: Bottom entry				Bulkhead mounting: Bottom entry			
			H3A-MAG				H3A-AG
Bulkhead mounting: Side entry				Bulkhead mounting: Side entry			
			H3A-MAGS				H3A-AGS
Surface mounting: Side entry				Surface mounting: Side entry			
	M16 M20	PG11	H3A-MAGSV-PG11 H3A-MAGSV-M16 H3A-MAGSV-M20		M16 M20	PG11	H3A-AGSV-PG11 H3A-AGSV-M16 H3A-AGSV-M20
Cable-to-cable hood				Cable-to-cable hood			
	M20	PG11	H3A-MTGVB-PG11 H3A-MTGVB-M20		M20	PG11	H3A-TGVB-PG11 H3A-TGVB-M20
Protection covers for hoods (thermoplastic)				Protection covers for hoods			
	Note: For mounted male insert and hood		H3A-KDTP		Note: For mounted male insert and hood		H3A-KDTP
Metal protection covers for hoods				Protection covers for hoods			
	Note: For mounted female insert and housings		H3A-KDB	 White Grey	Note: For mounted female insert and housings		H3A-KDBP (White) H3A-KDBPG (Grey)

HA series hoods/housings

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

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

HA series hoods/housings

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

H6B series hoods/housings

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

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

H10B with 2 levers on the hoods/housings

H10B LEVERS INCLUDE METAL, PLASTIC AND STAINLESS STEEL

H10B COVERS INCLUDE PLASTIC AND METAL COVERS

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

H10B with 1 lever on the hoods/housings

H10B LEVERS INCLUDE METAL, PLASTIC AND STAINLESS STEEL

H10B COVERS INCLUDE PLASTIC AND METAL COVERS

H10B metal hoods	Metr.	PG	Type	H10B metal housings	Metr.	PG	Type
Hood: Side entry				Bulkhead mounted			
	M20 M25	PG16 PG21	H10B-TS-RO-PG16 H10B-TS-RO-PG21 H10B-TS-RO-M20 H10B-TS-RO-M25				H10B-AG-LB
	M20 M25 M32	PG21 PG29	H10B-TSH-RO-PG21 H10B-TSH-RO-PG29 H10B-TSH-RO-M20 H10B-TSH-RO-M25 H10B-TSH-RO-M32				H10B-AD-LB
Hood: Top entry				Surface mounted: Side entry			
	M20 M25	PG16 PG21	H10B-TG-RO-PG16 H10B-TG-RO-PG21 H10B-TG-RO-M20 H10B-TG-RO-M25		1 Side entry Low construction 2 Side entry	PG16 PG21 PG16 PG21	H10B-SGR-LB-PG16 H10B-SGR-LB-PG21 H10B-SGR-LB-M20 H10B-SGR-LB-M25 H10B-SGR-LB-2PG16 H10B-SGR-LB-2PG21 H10B-SGR-LB-2M20 H10B-SGR-LB-2M25
					1 Side entry High construction 2 Side entry	PG21 PG29 PG21 PG29	H10B-SGRH-LB-PG21 H10B-SGRH-LB-PG29 H10B-SGRH-LB-M25 H10B-SGRH-LB-M32 H10B-SGRH-LB-2PG21 H10B-SGRH-LB-2PG29 H10B-SGRH-LB-2M25 H10B-SGRH-LB-2M32
	M20 M25 M32	PG21 PG29	H10B-TGH-RO-PG21 H10B-TGH-RO-PG29 H10B-TGH-RO-M20 H10B-TGH-RO-M25 H10B-TGH-RO-M32		1 Side entry Low construction 2 Side entry High construction	PG16 PG21 PG16 PG21 PG21 PG29 PG21 PG29	H10B-SDR-LB-PG16 H10B-SDR-LB-PG21 H10B-SDR-LB-M20 H10B-SDR-LB-M25 H10B-SDR-LB-2PG16 H10B-SDR-LB-2PG21 H10B-SDR-LB-2M20 H10B-SDR-LB-2M25 H10B-SDRH-LB-PG21 H10B-SDRH-LB-PG29 H10B-SDRH-LB-M25 H10B-SDRH-LB-M32 H10B-SDRH-LB-2PG21 H10B-SDRH-LB-2PG29 H10B-SDRH-LB-2M25 H10B-SDRH-LB-2M32
Cable-to-cable hood							
	M20 M25 M25 M32	PG16 PG21 PG29	H10B-TBF-LB-PG16 H10B-TBF-LB-M20 H10B-TBF-LB-M25 H10B-TBFH-LB-PG21 H10B-TBFH-LB-PG29 H10B-TBFH-LB-M25 H10B-TBFH-LB-M32				
Protection covers for hoods							
			H10B-KDTP-LB				

H16B with 2 levers on the hoods/housings

H16B LEVERS INCLUDE METAL, PLASTIC AND STAINLESS STEEL

H16B COVERS INCLUDE PLASTIC AND METAL COVERS

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

H16B with 1 lever on the hoods/housings

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

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

H24B with 2 levers on the hoods/housings

H24B LEVERS INCLUDE METAL, PLASTIC AND STAINLESS STEEL

H24B COVERS INCLUDE PLASTIC AND METAL COVERS

H24B metal hoods		Metr.			H24B metal housings	Metr.	PG	Type
Hood: Side entry					Bulkhead mounted			
	M25 M32	PG16 PG21	H24B-TS-PG16 H24B-TS-PG21 H24B-TS-M25 H24B-TS-M32					H24B-AGS
	M25 M32 M40	PG21 PG29	H24B-TSH-PG21 H24B-TSH-PG29 H24B-TSH-M25 H24B-TSH-M32 H24B-TSH-M40	Surface mounted: Side entry				
					1 Side entry Low construction M25 2 Side entry M25 1 Side entry High construction M25 M32 2 Side entry M25 M32	PG21 PG21 PG21 PG29 PG21 PG29	H24B-SGRS-PG21 H24B-SGRS-M25 H24B-SGRS-2PG21 H24B-SGRS-2M25 H24B-SGRHS-PG21 H24B-SGRHS-PG29 H24B-SGRHS-M25 H24B-SGRHS-M32 H24B-SGRHS-2PG21 H24B-SGRHS-2PG29 H24B-SGRHS-2M25 H24B-SGRHS-2M32	
Hood: Top entry					Side entry housing with two levers			
	M25 M32	PG16 PG21	H24B-TG-PG16 H24B-TG-PG21 H24B-TG-M25 H24B-TG-M32			Low construction M20 M25 High construction M25 M32	PG16 PG21 PG21 PG29	H24B-TSBS-PG16 H24B-TSBS-PG21 H24B-TSBS-M20 H24B-TSBS-M25 H24B-TSBHS-PG21 H24B-TSBHS-PG29 H24B-TSBHS-M25 H24B-TSBHS-M32
	M25 M32 M40	PG21 PG29	H24B-TGH-PG21 H24B-TGH-PG29 H24B-TGH-M25 H24B-TGH-M32 H24B-TGH-M40	Top entry housing with two levers				
					Low construction M20 M25 High construction M25 M32	PG16 PG21 PG21 PG29	H24B-TGBS-PG16 H24B-TGBS-PG21 H24B-TGBS-M20 H24B-TGBS-M25 H24B-TGBHS-PG21 H24B-TGBHS-PG29 H24B-TGBHS-M25 H24B-TGBHS-M32	
Cable-to-cable hood					Bulkhead mounted with 4 bolts			
	Low construction M25 M32 High construction M25 M32 M40	PG21 PG21 PG29	H24B-TBFS-PG21 H24B-TBFS-M25 H24B-TBFS-M32 H24B-TBFHS-PG21 H24B-TBFHS-PG29 H24B-TBFHS-M25 H24B-TBFHS-M32 H24B-TBFHS-M40					H24B-AD-BO
Protection covers for hoods						1 Side entry Low construction M25 2 Side entry M25 1 Side entry High construction M25 M32 2 Side entry M25 M32	PG21 PG21 PG21 PG29 PG21 PG29	H24B-SDR-BO-PG21 H24B-SDR-BO-M25 H24B-SDR-BO-2PG21 H24B-SDR-BO-2M25 H24B-SDRH-BO-PG21 H24B-SDRH-BO-PG29 H24B-SDRH-BO-M25 H24B-SDRH-BO-M32 H24B-SDRH-BO-2PG21 H24B-SDRH-BO-2PG29 H24B-SDRH-BO-2M25 H24B-SDRH-BO-2M32
			H24B-KDTP					
Housing protection cover								
			H24B-KDBP					

H24B with 1 lever on the hoods/housings

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

H32B with 2 levers on the hoods/housings

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

H48B series hoods/housings

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

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

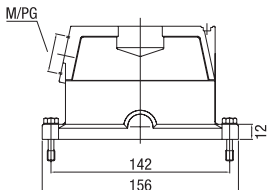
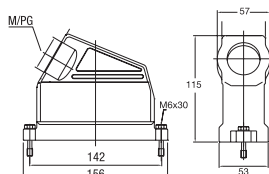
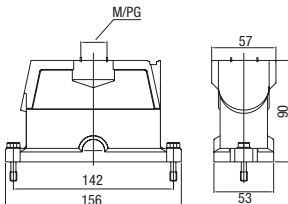
HIP: Pressure-tight, silver-grey

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

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

Pressure-tight up to 5 bar

IP 68 / IP 69 K

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

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

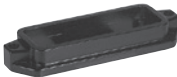
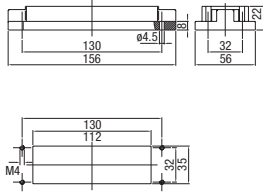
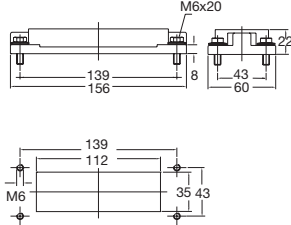
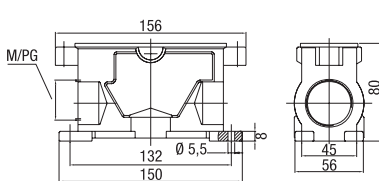
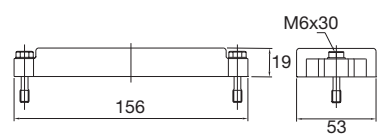
HIP: Pressure-tight, silver-grey

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

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

Pressure-tight up to 5 bar

IP 68 / IP 69 K

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

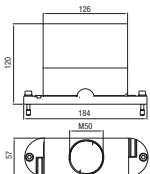
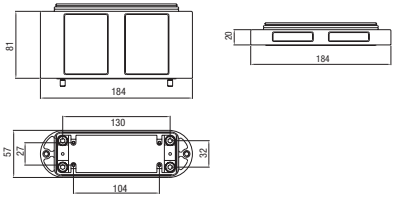
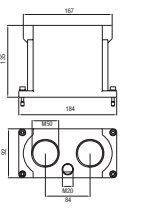
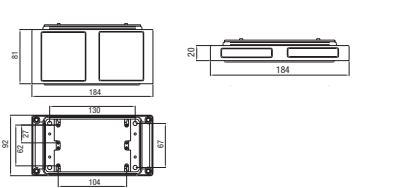
HF-HIP-K 8/HF-EMV-K 8, HF-HIP-K 12/HF-EMV-K 12 housings

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

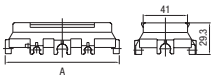
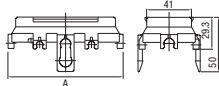
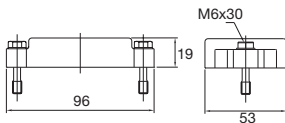
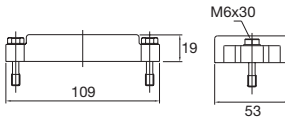
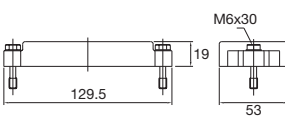
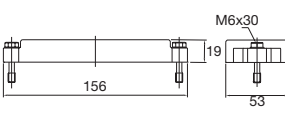
Description		Metr.	PG	Type	Part Number
Hood					
		1xM50 1xM50 2xM40 2xM40		HF-HIP-K.8.Sto.1.M50G HF.8.EMV-K.8.Sto.1.M50G HF.HIP-K.8.Sto.2.M40G HF.EMV-K.8.Sto.2.M40G	O-1102839-4 O-1102839-3 O-1102839-2 O-1102839-1
Housing bottom					
		Height		HF-HIP-K.8.AG.N HF-EMV-K.8.AG.N HF-HIP-K.8.AG HF-EMV-K.8.AG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

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									
	 <table><tr><th>Size</th><th>A=mm</th></tr><tr><td>6</td><td>105</td></tr><tr><td>8</td><td>132</td></tr></table>	Size	A=mm	6	105	8	132	SKP.6 SKP.8 with attachment string SKP.6.F SKP.8.F	O-1110684-3 O-1110661-3 O-1106258-3 O-1106258-4
Size	A=mm								
6	105								
8	132								
Size 6/8									
Protective cover for hoods with central locking clip									
	 <table><tr><th>Size</th><th>A=mm</th></tr><tr><td>6</td><td>105</td></tr><tr><td>8</td><td>132</td></tr></table>	Size	A=mm	6	105	8	132	SKP.6/R SKP.8/R with attachment string SKP.6/R.F SKP.8/R.F	O-1110684-4 O-1110661-4 O-1106259-3 O-1106259-4
Size	A=mm								
6	105								
8	132								
Size 6/8									
Protective covers for housings series HIP, EMV, EMV-K									
		HIP HIP/EMV.6/16.SKB	3-1106201-5						
		HIP-K HIP-K/EMV-K.6/16.SKB	4-1106201-5						
		HIP HIP/EMV.10/24.SKB	3-1106202-5						
		HIP-K/EMV-K HIP-K/EMV-K.10/24.SKB	4-1106202-5						
		HIP HIP/EMV.16/40.SKB	3-1106203-5						
		HIP-K HIP-K.16/40.SKB	4-1106203-5						
		HIP HIP/EMV.24/64.SKB	3-1106204-5						
		HIP-K/EMV-K HIP-K/EMV-K.24/64.SKB	4-1106204-5						

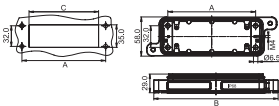
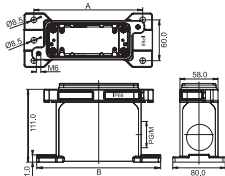
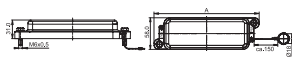
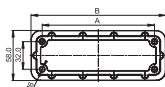
HBPR (IP68) SERIES

Hood: Side entry

Hood: Top entry

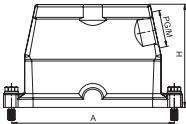
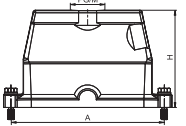
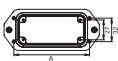
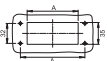
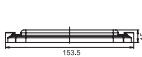
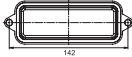
HPR (IP68) series hoods/housings

HBPR (IP68) SERIES

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

HPR (IP68) series hoods/housings

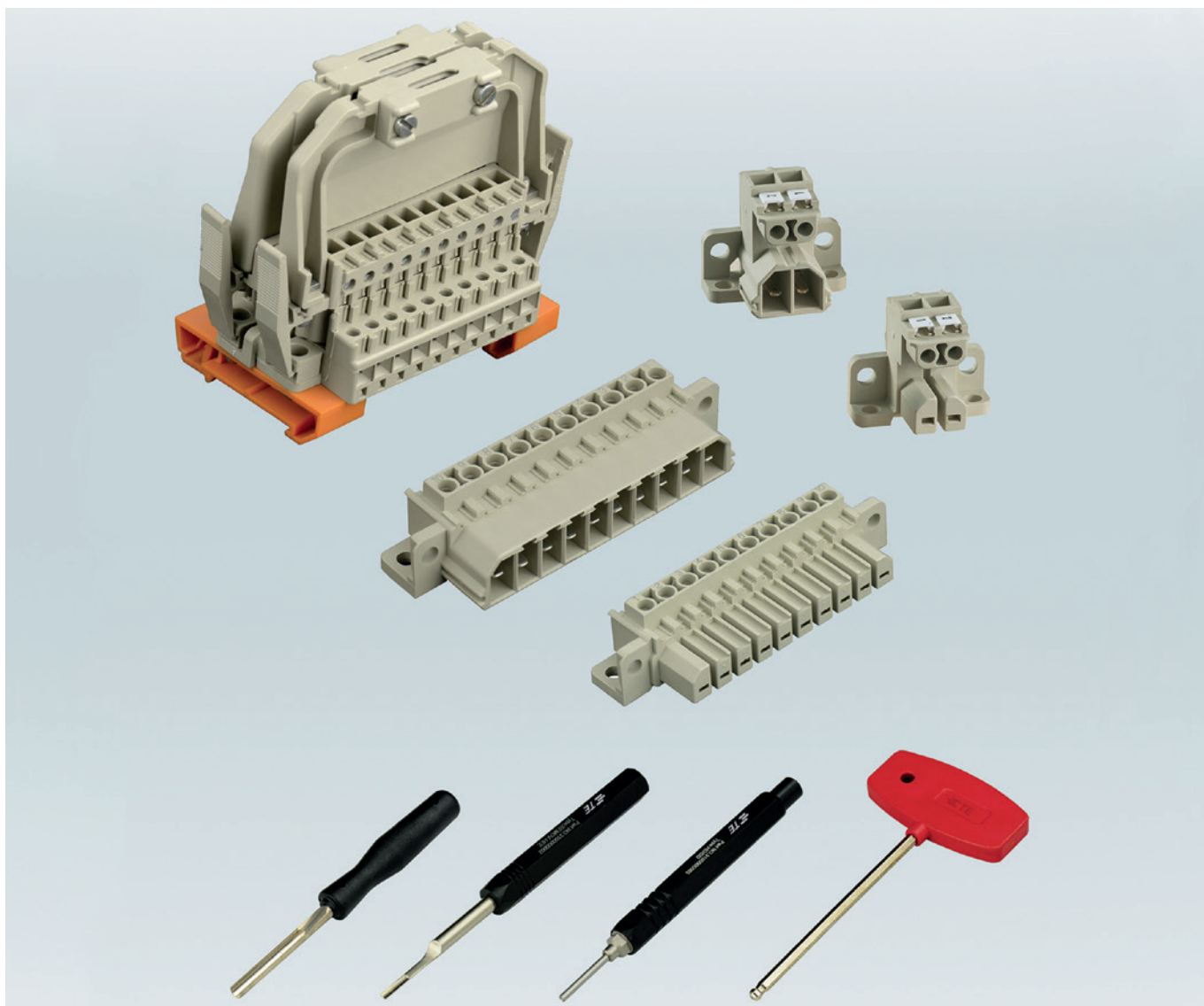
HBPR (IP68) SERIES

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

Notes

[illegible]

Tools and inserts and rail mounting elements



1. Specifications

DIN VDE 0110 Concerning clearance and clearance distances

DIN VDE 0627 Connectors and plug devices

2. Standards

DIN EN 60 664-1

DIN EN 61 984

3. Approvals



RoHS

Tools and accessories

Crimping tools and remove tools

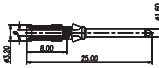
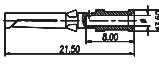
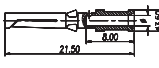
Crimp tool Wire range: 0.5-4.0mm ² Suitable for CDM/CDF and CEM/CEF contacts			Crimp tool Wire range: 4.0-10.0mm ² Used for CMM/CMF contacts		
Type	CRIMPBOX-0.5/4		Type	CRIMPBOX-4.0/10.0	
Part Number	T3100000001-000		Part Number	T3100001001-000	
Crimp tool Wire range: 0.14-4.0mm ² Suitable for CDM/CDF and CEM/CEF contacts with locator and die			Remove tool 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 Used for CEM/CMF contact series			Remove tool 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 Used for CMM/CMF contact series					
Type	REMOV-MM				
Part Number	T3100000013-000				

Axial screw tool and crimping tool

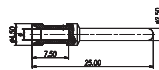
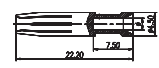
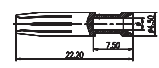
M3 screw driver Used for HA/HE inserts			Tool Used for 100A inserts		
Type	SCREWD-M3		Type	HEXA-D1	
Part Number	T3100000009-000		Part Number	T3100000010-000	
Tool Used for 40A inserts			Crimping tool Wire range: 10.0-120.0mm ² Used for 200A contacts		
Type	HEXA-D2		Type	CRIMPBOX-10/120	
Part Number	T3100000012-000		Part Number	T3100000015-000	

Crimp contacts

10A Contact

Tech data Material: copper alloy Contact resistance: $\leq 3\text{m}\Omega$ Terminal: crimp connection CDM/Male	10A Male crimp contacts 	Wire gauge		Strip- ping length mm	Crimp contacts, silver-plated		Crimp contacts, gold-plated	
		mm ²	AWG		Type	Part Number	Type	Part Number
		0.14-0.37	26-22	8.0	CDM-0.14	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 		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

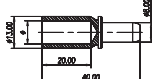
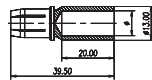
Tech data Material: copper alloy Contact resistance: $\leq 1\text{m}\Omega$ Terminal: crimp connection CEM/Male	16A Male crimp contacts 	Wire gauge		Strip- ping length mm	Crimp contacts, silver-plated		Crimp contacts, gold-plated	
		mm ²	AWG		Type	Part Number	Type	Part Number
		0.14-0.37	26-22	7.5	CEM-0.3	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 		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

Crimp contacts

40A Contact

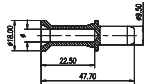
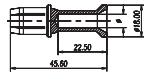
Tech data Material: copper alloy Contact resistance: $\leq 0.3\text{m}\Omega$ Terminal: crimp connection CMM/Male	40A Male crimp contacts 	Wire gauge		Stripping length mm	Crimp contacts, silver-plated	
		mm ²	AWG		Type	Part Number
		1.5	16	8.0	CMM-1.5	T2040001015-000
		2.5	14	8.0	CMM-2.5	T2040001025-000
		4.0	12	8.0	CMM-4.0	T2040001040-000
		6.0	10	8.0	CMM-6.0	T2040001060-000
	40A Female crimp contacts 	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
CMF/Female 						

100A Contact

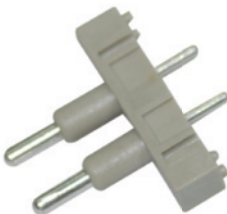
Tech data Material: copper alloy Contact resistance: $\leq 1\text{m}\Omega$ Terminal: crimp connection CDM/Male	100A Male crimp contacts 	Wire gauge	Ø	Stripping length mm	Crimp contacts, silver-plated	
		mm ²			Type	Part Number
		10	4.3	19	CNM-10	T2050001010-000
		16	5.5	19	CNM-16	T2050001016-000
		25	7	19	CNM-25	T2050001025-000
		35	8.2	16	CNM-35	T2050001035-000
CDF/Female 	100A Female crimp contacts 	10	4.3	19	CNF-10	T2050002010-000
		16	5.5	19	CNF-16	T2050002016-000
		25	7	19	CNF-25	T2050002025-000
		35	8.2	16	CNF-35	T2050002035-000

Crimp contacts

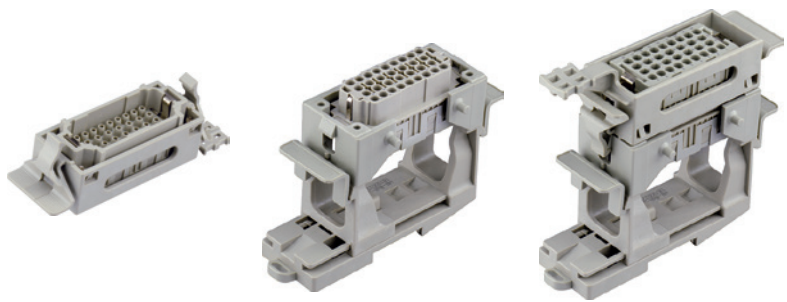
200A Contact

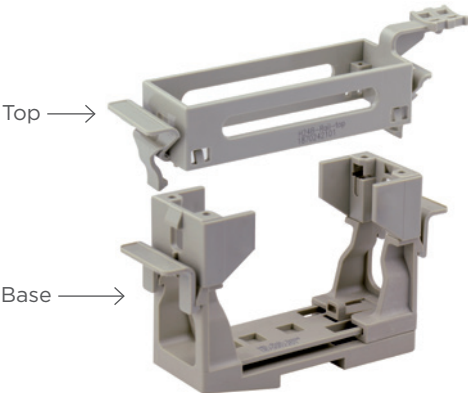
Tech data Material: copper Contact resistance: ≤0.3mΩ Terminal: crimp connection CHM/Male 	200A Male crimp contacts 	Wire gauge	Ø	Stripping length	Crimp contacts, silver-plated	
		mm²		mm	Type	Part Number
		25	7.0	22.5	CHM-25	T2060001025-000
		35	8.2	22.5	CHM-35	T2060001035-000
		50	10.0	22.5	CHM-50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

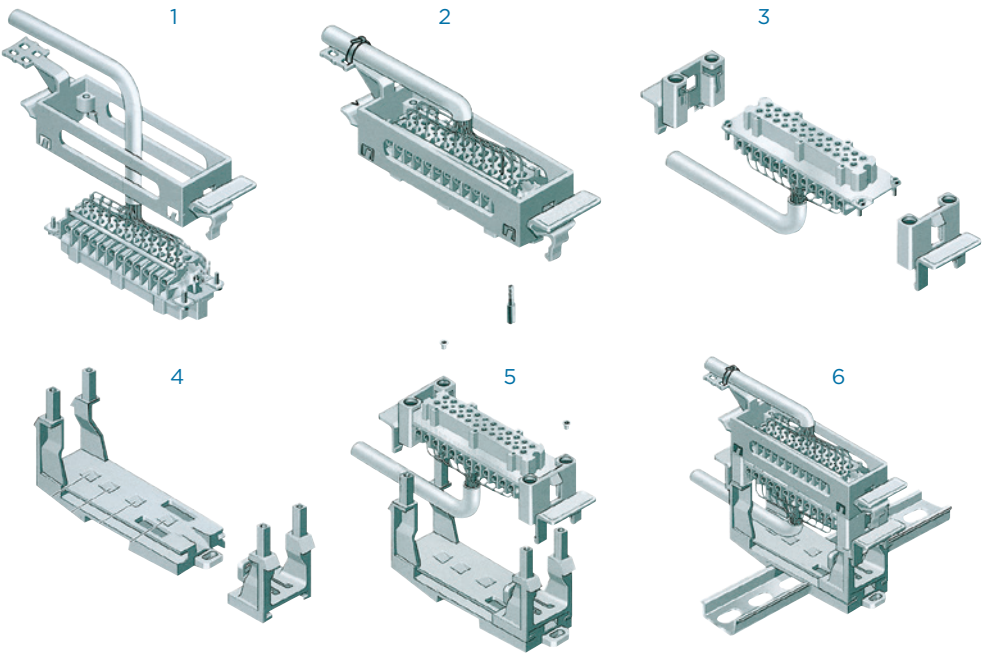
PCB Adapter

			
Type	PCB-adapter-EE	Type	CEF-adapter
Part Number	T2040000000-000	Part Number	T2030002000-000

Insert mounting element

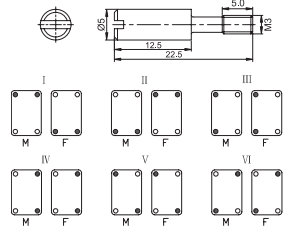
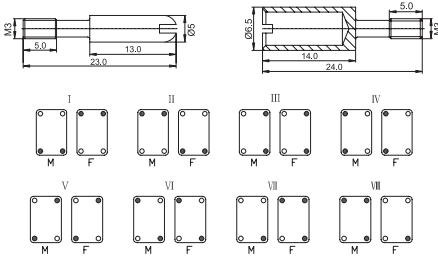
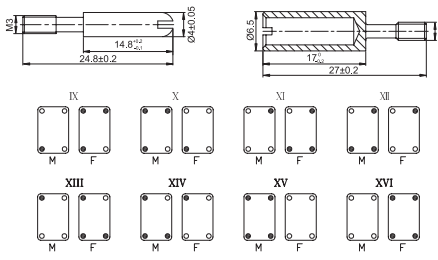


Set	Parts order		Type	Part Number
Insert mounting with carrier element				
	H6B set	Top	H6B-Rail-top	T1870062101-000
		Base	HB-Rail-base	T1870002201-000
	H10B set	Top	H10B-Rail-top	T1870102101-000
		Base	HB-Rail-base	T1870002201-000
	H16B set	Top	H16B-Rail-top	T1870162101-000
		Base	HB-Rail-base	T1870002201-000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

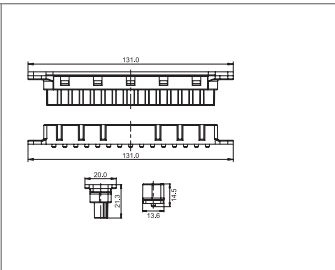
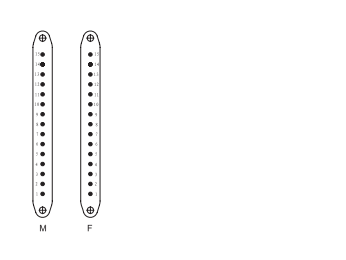
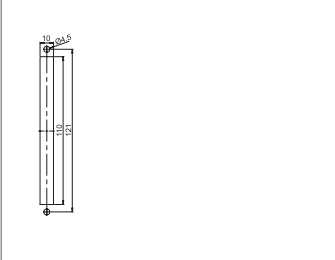
Coding of hoods/housings and inserts		Type	Part Number
Standard code pin (Stainless steel) 		Ordinary type CODING-PIN-M3-TM CODING-PIN-M3-TF Stainless steel CODING-PIN-M3-STM CODING-PIN-M3-STF	Ordinary type T0931000423-000 T0931006524-000 Stainless steel T0932000423-000 T0932006524-000
Guiding pins (Stainless steel) 		Ordinary type King-size CODING-PIN-M3-LTM CODING-PIN-M3-LTF Stainless steel, King-size CODING-PIN-M3-LSTM CODING-PIN-M3-LSTF	Ordinary type King-size T0931000425-000 T0931006527-000 Stainless steel, King-size T0931100425-000 T0931106527-000
Guiding pins (screw thread extended) 		Ordinary type (screw thread extended) CODING-PIN-M3-LTM CODING-PIN-M3-LTF Stainless steel (screw thread extended) CODING-PIN-M3-STM CODING-PIN-M3-STF	Ordinary type (screw thread extended) T0931100425-000 T0931106527-000 Ordinary type (screw thread extended) T0931100423-000 T0931106524-000

HEE-015 insert

INSERTS MOUNTING WITHOUT HOOD/HOUSING

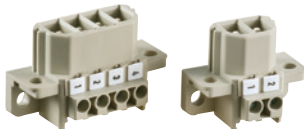
200V MAX. 16A

15+⌀

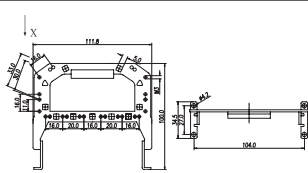
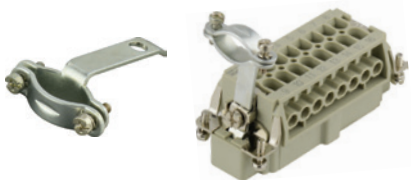
Dimensions (mm)	Type	Part Number	
		Male insert	Female insert
Crimp terminal (Order crimp contacts separately)			
		HEE-015-M	T2800152101-000
		HEE-015-F	T2800152201-000
Contact arrangement view from termination side	Panel cut out for inserts for use without hoods/housings		
			

Order crimp contacts separately
Female contact type: CSF-1.5
Female contact p/n: T0080002015-010

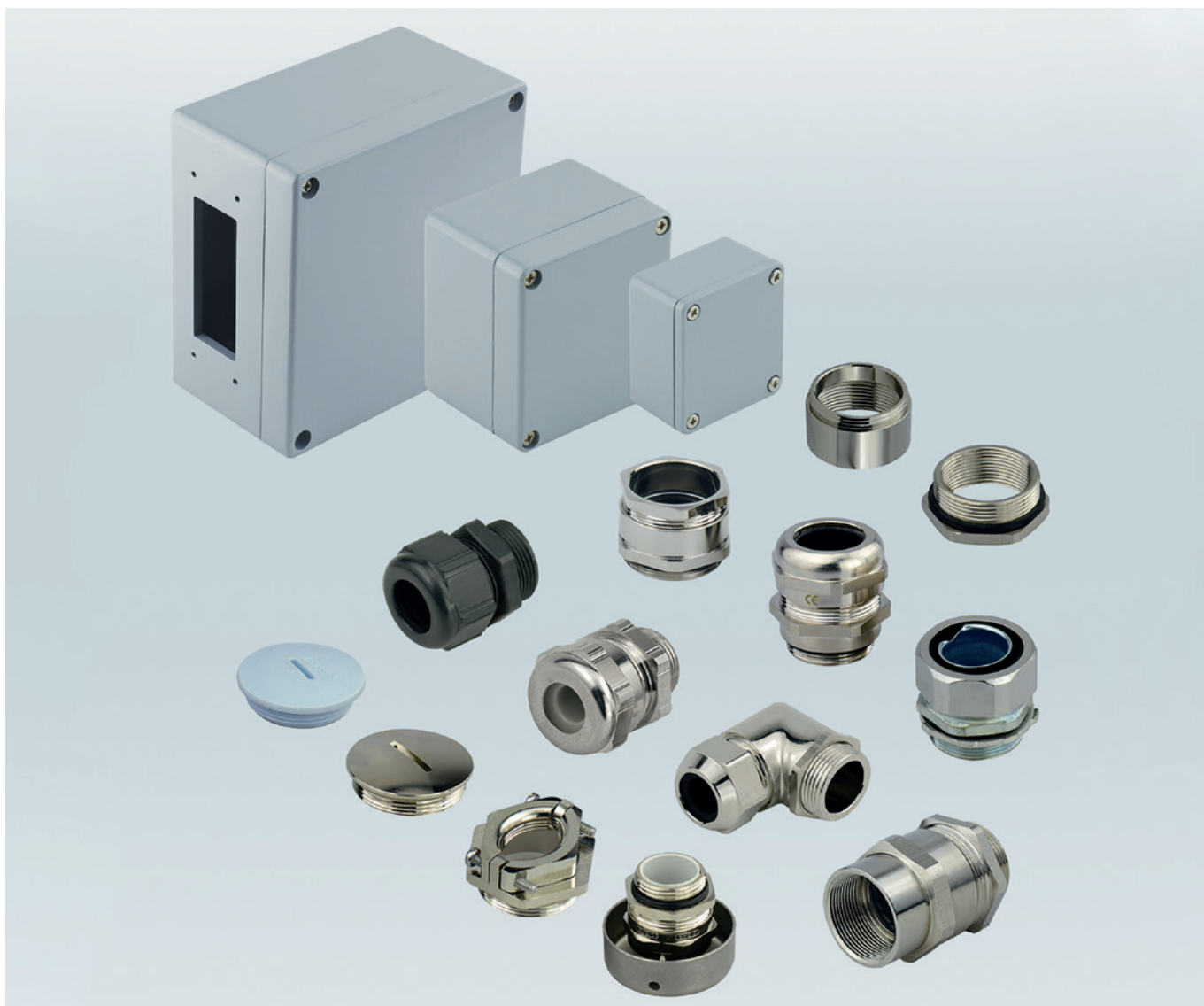
Other connectors

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

Installation elements

Grip frame, screw adapter and screw		Type	Part Number
H24B grip frame (further variants are available 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



Cable fittings and accessories

Cross reference from PG thread to metric thread

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

	Metr.	PG	Clamp range (mm)	Type	Part Number
Cable glands, brass nicked plated					
 Material: Nickel plated brass Press seal material: PA Seal material: NBR Temperature range: -40°C ~ +100°C Protection: IP68		PG7	2-5 3-6.5	DLX-7-MTS DLX-7-MS	T3609070111-000 T3609070101-000
		PG9	2-6 4-8	DLX-9-MTS DLX-9-MS	T3609090111-000 T3609090101-000
		PG11	3-7 5-10	DLX-11-MTS DLX-11-MS	T3609110111-000 T3609110101-000
		PG13.5	5-9 6-12	DLX-13-MTS DLX-13-MS	T3609130111-000 T3609130101-000
		PG16	7-12 10-14	DLX-16-MTS DLX-16-MS	T3609160111-000 T3609160101-000
		PG21	9-16 13-18	DLX-21-MTS DLX-21-MS	T3609210111-000 T3609210101-000
		PG29	13-20 18-25	DLX-29-MTS DLX-29-MS	T3609290111-000 T3609290101-000
		PG36	20-26 22-32	DLX-36-MTS DLX-36-MS	T3609360111-000 T3609360101-000
		PG42	25-31 32-38	DLX-42-MTS DLX-42-MS	T3609420111-000 T3609420101-000
		PG48	29-35 37-44	DLX-48-MTS DLX-48-MS	T3609480111-000 T3609480101-000
	M12 X 1.5		2-5 3-6.5	DLX-12-MT DLX-12-M	T3609120112-000 T3609120102-000
	M16 X 1.5		2-6 4-8 5-10	DLX-16-MT DLX-16-M DLX-16-MB	T3609160112-000 T3609160102-000 T3609160122-000
	M20 X 1.5		5-9 6-12 10-14	DLX-20-MT DLX-20-M DLX-20-MB	T3609200112-000 T3609200102-000 T3609200122-000
	M25 X 1.5		9-16 13-18	DLX-25-MT DLX-25-M	T3609250112-000 T3609250102-000
	M32 X 1.5		13-20 18-25	DLX-32-MT DLX-32-M	T3609320112-000 T3609320102-000
	M40 X 1.5		20-26 22-32	DLX-40-MT DLX-40-M	T3609400112-000 T3609400102-000
	M50 X 1.5		25-31 32-38	DLX-50-MT DLX-50-M	T3609500112-000 T3609500102-000
	M63 X 1.5		29-35 37-44	DLX-63-MT DLX-63-M	T3609630112-000 T3609630102-000

Cable fittings and accessories

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

Cable fittings and accessories

	Metr.	PG	Clamp range (mm)	Type	Part Number
Multiple sealing insert metal cable gland					
 Material: Nickel plated brass Seal material: TPE/EPDM Temperature range: -40°C ~ +100°C Protection: IP65 Seal material colors: White (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					
 Material: PA Seal material: EPDM Temperature range: -40°C ~ +100°C Protection: IP65 Seal material colors: White (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

Cable fittings and accessories

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

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: -40°C ~ +100°C 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: -40°C ~ +100°C 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: -40°C ~ +100°C 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: -40°C ~ +100°C 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

Cable fittings and accessories

	Metr.	PG	Clamp range (mm)	Type	Part Number
Multiple seal					
 Seal material: NBR Temperature range: -40°C ~ +100°C 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: -40°C ~ +100°C 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

Cable fittings and accessories

	Metr.	PG	Clamp range (mm)	Type	Part Number
Metal clamp glands with multiple seal					
 Material: Nickel plated brass Seal material: NBR Temperature range: -40°C ~ +100°C 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: -40°C ~ +100°C 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

Cable fittings and accessories

	Metr.	PG	Clamp range (mm)	Type	Part Number
Metal clamp glands					
 Material: Nickel plated brass Temperature range: -40°C ~ +100°C		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
	M12		5-7.5	KSM-12-M	T3105120121-000
	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					
 Material: Zinc alloy Seal material: PA Temperature range: -40°C ~ +100°C Protection: IP40-IP65		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
		PG29	Ø25	NTC-29-MS	T3510292501-000
		PG36	Ø32	NTC-36-MS	T3510363201-000
		PG42	Ø38	NTC-42-MS	T3510420114-000
		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

Cable fittings and accessories

	Metr.	PG	Clamp range (mm)	Type	Part Number
Nylon flexible tube fittings					
 Material: PA Temperature range: -40°C ~ +100°C 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: -20°C ~ +70°C 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

Cable fittings and accessories

	Metr.	PG	Type	Part Number
Metal blind plugs				
 Material: Nickel plated brass Temperature range: -40°C ~ +100°C 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				
 Material: PA Temperature range: -40°C ~ +100°C 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

Cable fittings and accessories

	Metr.	PG	Type	Part Number
Metal blind plugs				
 Material: Nickel plated brass Temperature range: -40°C ~ +100°C 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

Cable fittings and accessories

	Metr.	PG	Type	Part Number
Metal lock units				
 Material: Nickel plated brass Temperature range: -40°C ~ +100°C		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: -40°C ~ +100°C		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

Cable fittings and accessories

	Metr.	PG	Type	Part Number
Metal increasers				
 Material: Nickel plated brass Temperature range: -40°C ~ +100°C	M16-M20 M20-M25 M25-M32 M32-M40 M40-M50 M50-M63	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
			INCR-16/20-M	T3033162050-000
			INCR-20/25-M	T3033202550-000
			INCR-25/32-M	T3033253250-000
			INCR-32/40-M	T3033324050-000
			INCR-40/50-M	T3033405050-000
			INCR-50/63-M	T3033506350-000
Metal reducers				
 Material: Nickel plated brass Temperature range: -40°C ~ +100°C	M16-M12 M20-M12 M20-M16 M25-M20 M32-M20 M32-M25 M40-M25 M40-M32 M50-M32 M50-M40 M63-M40 M63-M50	PG9-PG7	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
			REDU-16/12-M	T3071161250-000
			REDU-20/12-M	T3071201250-000
			REDU-20/16-M	T3071201650-000
			REDU-25/20-M	T3071252050-000
			REDU-32/20-M	T3071322050-000
			REDU-32/25-M	T3071322550-000
			REDU-40/25-M	T3071402550-000
			REDU-40/32-M	T3071403250-000
			REDU-50/32-M	T3071503250-000
			REDU-50/40-M	T3071504050-000
			REDU-63/40-M	T3071634050-000
			REDU-63/50-M	T3071635050-000

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
			BK 70	64-70	T1970667000-000
C-Type rail	T 19 0000 0000-000	rail adaptor system			

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: -40°C ~ +105°C		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

Cable fittings and accessories

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

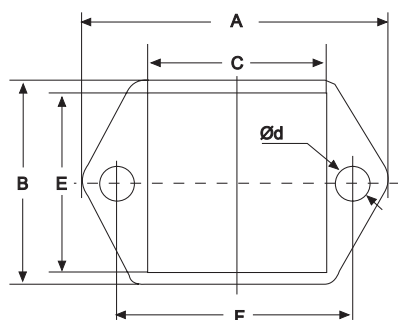
Cable fittings and accessories

	Metr.	PG	Clamp range	Type	Part Number
Metal cable gland					
 Material: Nickel plated brass Seal material: NBR Temperature range: -30°C ~ +100°C 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 Temperature range: -40°C ~ +100°C		PG11		STUD-PG11	T333311112-000
		PG13.5		STUD-PG13.5	T333313132-000
		PG16		STUD-PG16	T333316162-000
		PG21		STUD-PG21	T333321212-000
		PG29		STUD-PG29	T333329292-000
		PG36		STUD-PG36	T333336362-000
	M12 X 1.5			STUD-M12	T333312121-000
	M16 X 1.5			STUD-M16	T333316161-000
	M20 X 1.5			STUD-M20	T333320201-000
	M25 X 1.5			STUD-M25	T333325251-000
	M32 X 1.5			STUD-M32	T333332321-000
	M40 X 1.5			STUD-M40	T333340401-000
	M50 X 1.5			STUD-M50	T333350501-000
	M63 X 1.5			STUD-M63	T333363631-000

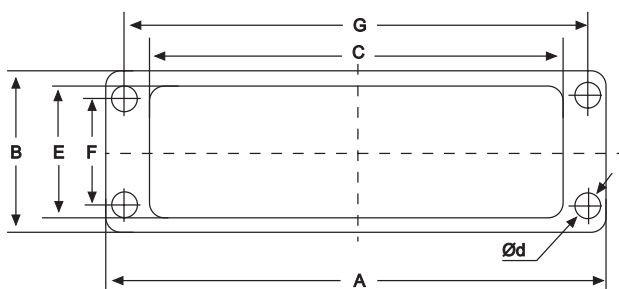
Cable fittings and accessories

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

Housings mounting dimensions



H3A housing



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

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

Part Number	Page	Part Number	Page	Part Number	Page
O-0163083-7	111	O-1102839-2	268	O-1103091-1	189
O-0164160-4	111	O-1102839-2	273	O-1103092-1	195
O-0164161-4	111	O-1102839-2	295	O-1103092-2	195
O-0164161-9	111	O-1102839-3	100	O-1103092-3	195
O-0166824-2	111	O-1102839-3	153	O-1103092-4	195
O-1102192-1	100	O-1102839-3	268	O-1103092-5	195
O-1102192-1	153	O-1102839-3	273	O-1103092-8	195
O-1102192-1	268	O-1102839-3	295	O-1103092-9	195
O-1102192-1	273	O-1102839-4	100	O-1106258-3	296
O-1102192-1	295	O-1102839-4	153	O-1106258-4	296
O-1102192-2	100	O-1102839-4	268	O-1106259-3	296
O-1102192-2	153	O-1102839-4	295	O-1106259-4	296
O-1102192-2	268	O-1102839-4	273	O-1106401-2	36
O-1102192-2	273	O-1102839-5	273	O-1106401-2	59
O-1102192-2	295	O-1102839-6	273	O-1106401-2	188
O-1102792-1	99	O-1102840-1	100	O-1106401-3	36
O-1102792-1	152	O-1102840-1	153	O-1106401-3	59
O-1102792-1	266	O-1102840-1	268	O-1106401-3	188
O-1102792-1	293	O-1102840-1	273	O-1106401-4	36
O-1102836-1	100	O-1102840-1	295	O-1106401-4	59
O-1102836-1	153	O-1102840-2	100	O-1106401-4	188
O-1102836-1	268	O-1102840-2	153	O-1106402-2	35
O-1102836-1	273	O-1102840-2	268	O-1106402-2	58
O-1102836-1	295	O-1102840-2	273	O-1106402-2	187
O-1102836-2	100	O-1102840-2	295	O-1106402-3	35
O-1102836-2	153	O-1102840-3	100	O-1106402-3	58
O-1102836-2	268	O-1102840-3	153	O-1106402-3	187
O-1102836-2	273	O-1102840-3	268	O-1106407-1	36
O-1102836-2	295	O-1102840-3	273	O-1106407-1	59
O-1102837-1	100	O-1102840-3	295	O-1106407-1	188
O-1102837-1	153	O-1102840-4	100	O-1106407-2	36
O-1102837-1	268	O-1102840-4	153	O-1106407-2	59
O-1102837-1	273	O-1102840-4	268	O-1106407-2	188
O-1102837-1	295	O-1102840-4	273	O-1106408-1	35
O-1102837-2	100	O-1102840-4	295	O-1106408-1	58
O-1102837-2	153	O-1102855-1	111	O-1106408-1	187
O-1102837-2	268	O-1102855-6	111	O-1106408-2	35
O-1102837-2	273	O-1102877-1	44	O-1106408-2	58
O-1102837-2	295	O-1102877-2	44	O-1106408-2	187
O-1102838-1	100	O-1102879-1	45	O-1106408-3	35
O-1102838-1	153	O-1102879-2	45	O-1106408-3	58
O-1102838-1	268	O-1102942-1	123	O-1106408-3	187
O-1102838-1	273	O-1102983-1	99	O-1106413-3	123
O-1102838-1	295	O-1102983-1	152	O-1106415-2	123
O-1102838-2	100	O-1102983-1	266	O-1106416-3	73
O-1102838-2	153	O-1102983-1	293	O-1106416-3	122
O-1102838-2	268	O-1103072-1	194	O-1106416-4	73
O-1102838-2	273	O-1103072-2	194	O-1106416-4	122
O-1102838-2	295	O-1103073-3	193	O-1106424-1	123
O-1102839-1	100	O-1103073-4	193	O-1106424-2	123
O-1102839-1	153	O-1103074-1	196	O-1106425-1	73
O-1102839-1	268	O-1103074-2	196	O-1106425-1	122
O-1102839-1	273	O-1103074-3	196	O-1106425-2	73
O-1102839-1	295	O-1103074-4	196	O-1106425-2	122
O-1102839-2	100	O-1103074-5	196	O-1106425-3	73
O-1102839-2	153	O-1103074-6	196	O-1106425-3	122

Part Number	Page	Part Number	Page	Part Number	Page
O-1106425-4	73	O-1106446-3	176	O-1106473-4	152
O-1106425-4	122	O-1106446-3	256	O-1106473-4	266
O-1106425-6	73	O-1106446-4	89	O-1106473-4	293
O-1106425-6	122	O-1106446-4	141	O-1106474-1	99
O-1106426-2	81	O-1106446-4	176	O-1106474-1	152
O-1106426-2	132	O-1106446-4	256	O-1106474-1	266
O-1106426-2	243	O-1106453-1	90	O-1106474-1	293
O-1106426-2	267	O-1106453-1	142	O-1106474-2	99
O-1106426-2	274	O-1106453-1	177	O-1106474-2	152
O-1106427-3	80	O-1106453-1	257	O-1106474-2	266
O-1106427-3	131	O-1106454-1	89	O-1106474-2	293
O-1106427-3	242	O-1106454-1	141	O-1106479-1	47
O-1106427-4	80	O-1106454-1	176	O-1106480-1	47
O-1106427-4	131	O-1106454-1	256	O-1106480-2	47
O-1106427-4	242	O-1106454-2	89	O-1108533-1	98
O-1106427-4	274	O-1106454-2	141	O-1108533-1	151
O-1106435-1	81	O-1106454-2	176	O-1108533-1	294
O-1106435-1	132	O-1106454-2	256	O-1108534-1	89
O-1106435-1	243	O-1106460-2	98	O-1108534-1	141
O-1106435-1	267	O-1106460-2	151	O-1108534-1	176
O-1106436-1	80	O-1106460-2	294	O-1108534-1	256
O-1106436-1	131	O-1106461-3	99	O-1108719-1	73
O-1106436-1	242	O-1106461-3	152	O-1108719-1	122
O-1106436-2	80	O-1106461-3	266	O-1108794-2	196
O-1106436-2	131	O-1106461-3	293	O-1108795-1	194
O-1106436-2	242	O-1106461-4	99	O-1108795-2	194
O-1106436-3	80	O-1106461-4	152	O-1108795-3	194
O-1106436-3	131	O-1106461-4	266	O-1108795-4	194
O-1106436-3	242	O-1106461-4	293	O-1108808-1	189
O-1106436-4	80	O-1106461-8	99	O-1108818-1	196
O-1106436-4	131	O-1106461-8	152	O-1110661-3	296
O-1106436-4	242	O-1106461-8	266	O-1110661-4	296
O-1106436-5	80	O-1106461-8	293	O-1110684-3	296
O-1106436-5	131	O-1106462-2	99	O-1110684-4	296
O-1106436-5	242	O-1106462-2	152	O-1110950-2	272
O-1106436-6	80	O-1106462-2	266	O-1110950-4	272
O-1106436-6	131	O-1106462-2	293	O-1110951-2	272
O-1106436-6	242	O-1106472-1	98	O-1110951-4	272
O-1106443-1	90	O-1106472-1	151	O-1110953-5	275
O-1106443-1	142	O-1106472-1	294	O-1110953-6	275
O-1106443-1	177	O-1106472-2	98	O-1110953-7	275
O-1106443-1	257	O-1106472-2	151	O-1110953-8	275
O-1106444-1	89	O-1106472-2	294	O-1110953-9	275
O-1106444-1	141	O-1106473-1	99	O-1110955-1	272
O-1106444-1	176	O-1106473-1	152	O-1110955-2	272
O-1106444-1	256	O-1106473-1	266	O-1110955-3	272
O-1106444-2	89	O-1106473-1	293	O-1110955-4	272
O-1106444-2	141	O-1106473-2	99	O-1110956-1	275
O-1106444-2	176	O-1106473-2	152	O-1110956-2	275
O-1106444-2	256	O-1106473-2	266	O-1110956-3	275
O-1106445-2	90	O-1106473-2	293	O-1110956-4	275
O-1106445-2	142	O-1106473-3	99	O-1110956-5	275
O-1106445-2	177	O-1106473-3	152	O-1110956-6	275
O-1106445-2	257	O-1106473-3	266	O-1110956-7	275
O-1106446-3	89	O-1106473-3	293	O-1110960-1	272
O-1106446-3	141	O-1106473-4	99	O-1110960-2	272

Part Number	Page	Part Number	Page	Part Number	Page
0-1110984-4	196	1-1102617-5	257	1-1102655-5	141
1-0163087-1	111	1-1102618-5	89	1-1102655-5	176
1-1102002-7	47	1-1102618-5	141	1-1102655-5	256
1-1102005-7	47	1-1102618-5	176	1-1102656-5	89
1-1102008-7	47	1-1102618-5	256	1-1102656-5	141
1-1102009-2	47	1-1102622-5	99	1-1102656-5	176
1-1102011-2	47	1-1102622-5	152	1-1102656-5	256
1-1102013-2	47	1-1102622-5	266	1-1102658-5	99
1-1102015-2	47	1-1102622-5	293	1-1102658-5	152
1-1102017-2	47	1-1102623-5	99	1-1102658-5	266
1-1102027-7	47	1-1102623-5	152	1-1102658-5	293
1-1102030-7	47	1-1102623-5	266	1-1102660-5	99
1-1102033-7	47	1-1102623-5	293	1-1102660-5	152
1-1102172-7	44	1-1102624-5	98	1-1102660-5	266
1-1102175-7	44	1-1102624-5	151	1-1102660-5	293
1-1102176-2	44	1-1102624-5	294	1-1102662-5	99
1-1102177-2	44	1-1102625-5	98	1-1102662-5	152
1-1102179-2	45	1-1102625-5	151	1-1102662-5	266
1-1102181-2	45	1-1102625-5	294	1-1102662-5	293
1-1102183-2	45	1-1102626-5	98	1-1102664-5	99
1-1102185-2	45	1-1102626-5	151	1-1102664-5	152
1-1102600-5	35	1-1102626-5	294	1-1102664-5	266
1-1102600-5	58	1-1102631-5	73	1-1102664-5	293
1-1102600-5	187	1-1102631-5	122	1-1102665-5	98
1-1102601-5	36	1-1102635-5	73	1-1102665-5	151
1-1102601-5	59	1-1102635-5	122	1-1102665-5	294
1-1102601-5	188	1-1102638-5	73	1-1103092-0	195
1-1102602-5	35	1-1102638-5	122	1-1103092-1	195
1-1102602-5	58	1-1102640-5	80	1-1103092-2	195
1-1102602-5	187	1-1102640-5	131	1-1103416-1	43
1-1102603-5	35	1-1102640-5	242	1-1103416-1	43
1-1102603-5	58	1-1102642-5	80	1-1103416-7	43
1-1102603-5	187	1-1102642-5	131	1-1103416-8	43
1-1102604-5	123	1-1102642-5	242	1-1103416-9	46
1-1102605-5	123	1-1102644-5	80	1-1103416-7	43
1-1102606-5	73	1-1102644-5	131	1-1103416-8	43
1-1102606-5	122	1-1102644-5	242	1-1103417-1	43
1-1102610-5	81	1-1102646-5	80	1-1103417-1	46
1-1102610-5	132	1-1102646-5	131	1-1103417-7	43
1-1102610-5	243	1-1102646-5	242	1-1103417-7	46
1-1102610-5	267	1-1102647-5	80	1-1103417-8	43
1-1102611-5	81	1-1102647-5	131	1-1103417-8	46
1-1102611-5	132	1-1102647-5	242	1-1103417-9	46
1-1102611-5	243	1-1102649-5	89	1-1105000-2	111
1-1102611-5	267	1-1102649-5	141	1-1105000-3	111
1-1102612-5	81	1-1102649-5	176	1-1105001-2	111
1-1102612-5	132	1-1102649-5	256	1-1105001-3	111
1-1102612-5	243	1-1102651-5	89	1-1105653-8	275
1-1102612-5	267	1-1102651-5	141	1-1105851-8	48
1-1102616-5	90	1-1102651-5	176	1-1105851-8	49
1-1102616-5	142	1-1102651-5	256	1-1105851-8	110
1-1102616-5	177	1-1102653-5	89	1-1105851-8	165
1-1102616-5	257	1-1102653-5	141	1-1105851-8	190
1-1102617-5	90	1-1102653-5	176	1-1105851-8	191
1-1102617-5	142	1-1102653-5	256	1-1105851-8	302
1-1102617-5	177	1-1102655-5	89	1-1106427-0	80

Part Number	Page	Part Number	Page	Part Number	Page
1-1106427-0	131	2-1102633-5	122	2-1103033-3	107
1-1106427-0	242	2-1102635-5	73	2-1103414-3	37
1-1110953-1	275	2-1102635-5	122	2-1103415-3	37
1-1579007-8	192	2-1102637-5	73	2-1103416-3	43
2-1102600-5	35	2-1102637-5	122	2-1103416-3	46
2-1102600-5	58	2-1102638-5	73	2-1103416-7	43
2-1102600-5	187	2-1102638-5	122	2-1103416-7	46
2-1102601-5	36	2-1102642-5	80	2-1103416-8	43
2-1102601-5	59	2-1102642-5	131	2-1103416-8	46
2-1102601-5	188	2-1102642-5	242	2-1103416-9	46
2-1102602-5	35	2-1102644-5	80	2-1103417-3	43
2-1102602-5	58	2-1102644-5	131	2-1103417-3	46
2-1102602-5	187	2-1102644-5	242	2-1103417-7	43
2-1102603-5	35	2-1102647-5	80	2-1103417-7	46
2-1102603-5	58	2-1102647-5	131	2-1103417-8	43
2-1102603-5	187	2-1102647-5	242	2-1103417-8	46
2-1102604-5	123	2-1102651-5	89	2-1103417-9	46
2-1102605-5	123	2-1102651-5	141	2-1105000-3	111
2-1102606-5	73	2-1102651-5	176	2-1105001-3	111
2-1102606-5	122	2-1102651-5	256	2-1105653-8	275
2-1102611-5	81	2-1102655-5	89	3-1105000-2	111
2-1102611-5	132	2-1102655-5	141	3-1105001-2	111
2-1102611-5	243	2-1102655-5	176	3-1105653-8	275
2-1102611-5	267	2-1102655-5	256	3-1106200-5	36
2-1102612-5	81	2-1102656-5	89	3-1106200-5	59
2-1102612-5	132	2-1102656-5	141	3-1106200-5	188
2-1102612-5	243	2-1102656-5	176	3-1106201-5	123
2-1102612-5	267	2-1102656-5	256	3-1106201-5	296
2-1102617-5	90	2-1102660-5	99	3-1106202-5	81
2-1102617-5	142	2-1102660-5	152	3-1106202-5	132
2-1102617-5	177	2-1102660-5	266	3-1106202-5	243
2-1102617-5	257	2-1102660-5	293	3-1106202-5	267
2-1102618-5	89	2-1102664-5	99	3-1106202-5	296
2-1102618-5	141	2-1102664-5	152	3-1106203-5	90
2-1102618-5	176	2-1102664-5	266	3-1106203-5	142
2-1102618-5	256	2-1102664-5	293	3-1106203-5	177
2-1102622-5	99	2-1102665-5	98	3-1106203-5	257
2-1102622-5	152	2-1102665-5	151	3-1106203-5	296
2-1102622-5	266	2-1102665-5	294	3-1106204-5	98
2-1102622-5	293	2-1103004-3	61	3-1106204-5	151
2-1102623-5	99	2-1103005-3	61	3-1106204-5	294
2-1102623-5	152	2-1103006-3	70	3-1106204-5	296
2-1102623-5	266	2-1103007-3	70	4-1102700-5	35
2-1102623-5	293	2-1103008-3	75	4-1102700-5	58
2-1102625-5	98	2-1103009-3	75	4-1102700-5	187
2-1102625-5	151	2-1103010-3	64	4-1102701-5	36
2-1102625-5	294	2-1103010-3	67	4-1102701-5	59
2-1102626-5	98	2-1103011-3	64	4-1102701-5	188
2-1102626-5	151	2-1103011-3	67	4-1102702-5	35
2-1102626-5	294	2-1103012-3	83	4-1102702-5	58
2-1102628-5	98	2-1103012-3	102	4-1102702-5	187
2-1102628-5	151	2-1103013-3	83	4-1102703-5	35
2-1102628-5	294	2-1103013-3	102	4-1102703-5	58
2-1102631-5	73	2-1103032-3	92	4-1102703-5	187
2-1102631-5	122	2-1103032-3	107	4-1102704-5	73
2-1102633-5	73	2-1103033-3	92	4-1102704-5	122

Part Number	Page	Part Number	Page	Part Number	Page
4-1102706-5	73	4-1102732-5	99	5-1102616-5	142
4-1102706-5	122	4-1102732-5	152	5-1102616-5	177
4-1102707-5	73	4-1102732-5	266	5-1102616-5	257
4-1102707-5	122	4-1102732-5	293	5-1102624-5	98
4-1102710-5	73	4-1102733-5	99	5-1102624-5	151
4-1102710-5	122	4-1102733-5	152	5-1102624-5	294
4-1102712-5	73	4-1102733-5	266	5-1102708-5	123
4-1102712-5	122	4-1102733-5	293	5-1102709-5	123
4-1102714-5	80	4-1102734-5	98	5-1102716-5	81
4-1102714-5	131	4-1102734-5	151	5-1102716-5	132
4-1102714-5	242	4-1102734-5	294	5-1102716-5	243
4-1102715-5	80	4-1102735-5	98	5-1102716-5	267
4-1102715-5	131	4-1102735-5	151	5-1105653-8	275
4-1102715-5	242	4-1102735-5	294	6-1105653-8	275
4-1102715-5	274	4-1102736-5	98	7-1103414-1	37
4-1102716-5	274	4-1102736-5	151	7-1103415-1	37
4-1102717-5	81	4-1102736-5	294	7-1103416-1	39
4-1102717-5	132	4-1102755-5	99	7-1103416-1	41
4-1102717-5	243	4-1102755-5	152	7-1103416-1	43
4-1102717-5	267	4-1102755-5	266	7-1103416-1	43
4-1102718-5	80	4-1102755-5	293	7-1103416-7	43
4-1102718-5	131	4-1102759-5	99	7-1103416-8	43
4-1102718-5	242	4-1102759-5	152	7-1103416-9	46
4-1102718-5	274	4-1102759-5	266	7-1103416-7	41
4-1102720-5	81	4-1102759-5	293	7-1103416-7	43
4-1102720-5	132	4-1102760-5	98	7-1103416-8	43
4-1102720-5	243	4-1102760-5	151	7-1103417-1	39
4-1102720-5	267	4-1102760-5	294	7-1103417-1	41
4-1102722-5	89	4-1105000-3	111	7-1103417-1	43
4-1102722-5	141	4-1105001-3	111	7-1103417-1	46
4-1102722-5	176	4-1105653-8	275	7-1103417-7	41
4-1102722-5	256	4-1106200-5	36	7-1103417-7	43
4-1102723-5	89	4-1106200-5	59	7-1103417-7	46
4-1102723-5	141	4-1106200-5	188	7-1103417-8	43
4-1102723-5	176	4-1106201-5	123	7-1103417-8	46
4-1102723-5	256	4-1106201-5	123	7-1103417-9	46
4-1102725-5	89	4-1106201-5	296	7-1105653-8	275
4-1102725-5	141	4-1106202-5	81	8-1105653-8	275
4-1102725-5	176	4-1106202-5	132	539635-1	111
4-1102725-5	256	4-1106202-5	243	539742-2	111
4-1102726-5	90	4-1106202-5	267	929962-1	192
4-1102726-5	142	4-1106202-5	296	929963-1	192
4-1102726-5	177	4-1106203-5	90	929964-1	192
4-1102726-5	257	4-1106203-5	142	929965-1	192
4-1102727-5	90	4-1106203-5	177	929969-1	192
4-1102727-5	142	4-1106203-5	257	929970-1	192
4-1102727-5	177	4-1106203-5	296	929971-1	192
4-1102727-5	257	4-1106204-5	98	929972-1	192
4-1102728-5	89	4-1106204-5	151	962966-1	192
4-1102728-5	141	4-1106204-5	294	962967-1	192
4-1102728-5	176	4-1106204-5	296	962968-1	192
4-1102728-5	256	5-1102610-5	81	962969-1	192
4-1102730-5	89	5-1102610-5	132	962976-1	192
4-1102730-5	141	5-1102610-5	243	962977-1	192
4-1102730-5	176	5-1102610-5	267	962978-1	192
4-1102730-5	256	5-1102616-5	90	962979-1	192

Part Number	Page	Part Number	Page	Part Number	Page
1481004-7	192	T1010101500-000	240	T1210160125-000	252
1579000-7	192	T1010102100-000	76	T1210160121-000	85
T0926003000-000	310	T1010102100-000	127	T1210160121-000	137
T0931000423-000	307	T1010102100-000	238	T1210160121-000	172
T0931000425-000	307	T1010161400-000	85	T1210160121-000	252
T0931006524-000	307	T1010161400-000	137	T1210160132-000	85
T0931006527-000	307	T1010161400-000	172	T1210160132-000	137
T0931100423-000	307	T1010161400-000	252	T1210160132-000	172
T0931100425-000	307	T1010161500-000	87	T1210160132-000	252
T0931100425-000	307	T1010161500-000	139	T1210240116-000	94
T0931106524-000	307	T1010161500-000	174	T1210240116-000	147
T0931106527-000	307	T1010161500-000	254	T1210240116-000	262
T0931106527-000	307	T1010162100-000	85	T1210240121-000	94
T0932000423-000	307	T1010162100-000	137	T1210240121-000	147
T0932006524-000	307	T1010162100-000	172	T1210240121-000	262
T0932406003-000	310	T1010162100-000	252	T1210240125-000	94
T0910004109-000	318	T1010241400-000	94	T1210240125-000	147
T0910004111-000	318	T1010241400-000	147	T1210240125-000	262
T0910004113-000	318	T1010241400-000	262	T1210240132-000	94
T0910004116-000	318	T1010241500-000	96	T1210240132-000	147
T0910004121-000	318	T1010241500-000	149	T1210240132-000	262
T0910004129-000	318	T1010241500-000	264	T1210320129-000	104
T0910004136-000	318	T1010242100-000	94	T1210320129-000	158
T0910004142-000	318	T1010242100-000	147	T1210320129-000	179
T0910004148-000	318	T1010242100-000	262	T1210320132-000	104
T1000321220-000	104	T1019101101-000	38	T1210320132-000	158
T1000321220-000	158	T1019101101-000	62	T1210320132-000	179
T1000321220-000	179	T1019101201-000	38	T1210320136-000	104
T1010031100-000	33	T1019101201-000	62	T1210320136-000	158
T1010031100-000	34	T1019161101-000	65	T1210320136-000	179
T1010031100-000	56	T1019161201-000	40	T1210320140-000	104
T1010031100-000	57	T1019161101-000	40	T1210320140-000	158
T1010031100-000	185	T1019161201-000	65	T1210320140-000	179
T1010031100-000	186	T1210100116-000	76	T1220100116-000	76
T1010032100-000	34	T1210100116-000	127	T1220100116-000	127
T1010032100-000	57	T1210100116-000	238	T1220100116-000	238
T1010032100-000	186	T1210100120-000	76	T1220100120-000	76
T1010032200-000	34	T1210100120-000	127	T1220100120-000	127
T1010032200-000	57	T1210100120-000	238	T1220100120-000	238
T1010032200-000	186	T1210100121-000	76	T1220100121-000	76
T1010032300-000	34	T1210100121-000	127	T1220100121-000	127
T1010032300-000	57	T1210100121-000	238	T1220100121-000	238
T1010032300-000	186	T1210100125-000	76	T1220100125-000	76
T1010033100-000	33	T1210100125-000	127	T1220100125-000	127
T1010033100-000	56	T1210100125-000	238	T1220100125-000	238
T1010033100-000	185	T1210160116-000	85	T1220160116-000	85
T1010033200-000	34	T1210160116-000	137	T1220160116-000	137
T1010033200-000	57	T1210160116-000	172	T1220160116-000	172
T1010033200-000	186	T1210160116-000	252	T1220160116-000	252
T1010061400-000	71	T1210160120-000	85	T1220160121-000	85
T1010061400-000	120	T1210160125-000	85	T1220160121-000	137
T1010101400-000	76	T1210160120-000	137	T1220160121-000	172
T1010101400-000	127	T1210160125-000	137	T1220160121-000	252
T1010101400-000	238	T1210160120-000	172	T1220160125-000	85
T1010101500-000	78	T1210160125-000	172	T1220160125-000	137
T1010101500-000	129	T1210160120-000	252	T1220160125-000	172

Part Number	Page	Part Number	Page	Part Number	Page
T1220160125-000	252	T1230100129-000	238	T1240102116-000	280
T1220160132-000	85	T1230100132-000	76	T1240102120-000	280
T1220160132-000	137	T1230100132-000	127	T1240160121-000	85
T1220160132-000	172	T1230100132-000	238	T1240160121-000	137
T1220160132-000	252	T1230102116-000	280	T1240160121-000	172
T1220240116-000	94	T1230102120-000	280	T1240160121-000	252
T1220240116-000	147	T1230160121-000	85	T1240160125-000	85
T1220240116-000	262	T1230160121-000	137	T1240160125-000	137
T1220240121-000	94	T1230160121-000	172	T1240160125-000	172
T1220240121-000	147	T1230160121-000	252	T1240160125-000	252
T1220240121-000	262	T1230160129-000	85	T1240160129-000	85
T1220240125-000	94	T1230160129-000	137	T1240160129-000	137
T1220240125-000	147	T1230160129-000	172	T1240160129-000	172
T1220240125-000	262	T1230160129-000	252	T1240160129-000	252
T1220240132-000	94	T1230160132-000	85	T1240160132-000	85
T1220240132-000	147	T1230160132-000	137	T1240160132-000	137
T1220240132-000	262	T1230160132-000	172	T1240160132-000	172
T1220320121-000	104	T1230160132-000	252	T1240160132-000	252
T1220320121-000	158	T1230160140-000	85	T1240160140-000	85
T1220320121-000	179	T1230160140-000	137	T1240160140-000	137
T1220320125-000	104	T1230160140-000	172	T1240160140-000	172
T1220320125-000	158	T1230160140-000	252	T1240160140-000	252
T1220320125-000	179	T1230162121-000	280	T1240162121-000	280
T1220320129-000	104	T1230162125-000	280	T1240162125-000	280
T1220320129-000	158	T1230240121-000	94	T1240240121-000	94
T1220320129-000	179	T1230240121-000	147	T1240240121-000	147
T1220320132-000	104	T1230240121-000	262	T1240240121-000	262
T1220320132-000	158	T1230240125-000	94	T1240240125-000	94
T1220320132-000	179	T1230240125-000	147	T1240240125-000	147
T1220320136-000	104	T1230240125-000	262	T1240240125-000	262
T1220320136-000	158	T1230240129-000	94	T1240240129-000	94
T1220320136-000	179	T1230240129-000	147	T1240240129-000	147
T1220320140-000	104	T1230240129-000	262	T1240240129-000	262
T1220320140-000	158	T1230240132-000	94	T1240240132-000	94
T1220320140-000	179	T1230240132-000	147	T1240240132-000	147
T1220320142-000	104	T1230240132-000	262	T1240240132-000	262
T1220320142-000	158	T1230240140-000	94	T1240240140-000	94
T1220320142-000	179	T1230240140-000	147	T1240240140-000	147
T1220320150-000	104	T1230240140-000	262	T1240240140-000	262
T1220320150-000	158	T1230242121-000	280	T1240242121-000	280
T1220320150-000	179	T1230242125-000	280	T1240242125-000	280
T1230060125-000	85	T1240100120-000	76	T1250103116-000	77
T1230060125-000	137	T1240100120-000	127	T1250103116-000	128
T1230060125-000	172	T1240100120-000	238	T1250103116-000	239
T1230060125-000	252	T1240100121-000	76	T1250103120-000	77
T1230100120-000	76	T1240100121-000	127	T1250103120-000	128
T1230100120-000	127	T1240100121-000	238	T1250103120-000	239
T1230100120-000	238	T1240100125-000	76	T1250103121-000	77
T1230100121-000	76	T1240100125-000	127	T1250103121-000	128
T1230100121-000	127	T1240100125-000	238	T1250103121-000	239
T1230100121-000	238	T1240100129-000	76	T1250103125-000	77
T1230100125-000	76	T1240100129-000	127	T1250103125-000	128
T1230100125-000	127	T1240100129-000	238	T1250103125-000	239
T1230100125-000	238	T1240100132-000	76	T1250163116-000	86
T1230100129-000	76	T1240100132-000	127	T1250163116-000	138
T1230100129-000	127	T1240100132-000	238	T1250163116-000	173

Part Number	Page	Part Number	Page	Part Number	Page
T1250163116-000	253	T1260243120-000	95	T1280103129-000	128
T1250163120-000	86	T1260243120-000	148	T1280103129-000	239
T1250163120-000	138	T1260243120-000	263	T1280103132-000	77
T1250163120-000	173	T1260243121-000	95	T1280103132-000	128
T1250163120-000	253	T1260243121-000	148	T1280103132-000	239
T1250163121-000	86	T1260243121-000	263	T1280163121-000	86
T1250163121-000	138	T1260243125-000	95	T1280163121-000	138
T1250163121-000	173	T1260243125-000	148	T1280163121-000	173
T1250163121-000	253	T1260243125-000	263	T1280163121-000	253
T1250163125-000	86	T1270103121-000	77	T1280163125-000	86
T1250163125-000	138	T1270103121-000	128	T1280163125-000	138
T1250163125-000	173	T1270103121-000	239	T1280163125-000	173
T1250163125-000	253	T1270103125-000	77	T1280163125-000	253
T1250243116-000	95	T1270103125-000	128	T1280163129-000	86
T1250243116-000	148	T1270103125-000	239	T1280163129-000	138
T1250243116-000	263	T1270103129-000	77	T1280163129-000	173
T1250243120-000	95	T1270103129-000	128	T1280163129-000	253
T1250243120-000	148	T1270103129-000	239	T1280163132-000	86
T1250243120-000	263	T1270103132-000	77	T1280163132-000	138
T1250243121-000	95	T1270103132-000	128	T1280163132-000	173
T1250243121-000	148	T1270103132-000	239	T1280163132-000	253
T1250243121-000	263	T1270163121-000	86	T1280243121-000	95
T1250243125-000	95	T1270163121-000	138	T1280243121-000	148
T1250243125-000	148	T1270163121-000	173	T1280243121-000	263
T1250243125-000	263	T1270163121-000	253	T1280243125-000	95
T1260103116-000	77	T1270163125-000	86	T1280243125-000	148
T1260103116-000	128	T1270163125-000	138	T1280243125-000	263
T1260103116-000	239	T1270163125-000	173	T1280243129-000	95
T1260103120-000	77	T1270163125-000	253	T1280243129-000	148
T1260103120-000	128	T1270163129-000	86	T1280243129-000	263
T1260103120-000	239	T1270163129-000	138	T1280243132-000	95
T1260103121-000	77	T1270163129-000	173	T1280243132-000	148
T1260103121-000	128	T1270163129-000	253	T1280243132-000	263
T1260103121-000	239	T1270163132-000	86	T1310060116-000	71
T1260103125-000	77	T1270163132-000	138	T1310060116-000	120
T1260103125-000	128	T1270163132-000	173	T1310060120-000	71
T1260103125-000	239	T1270163132-000	253	T1310060120-000	120
T1260163116-000	86	T1270243121-000	95	T1310060121-000	71
T1260163116-000	138	T1270243121-000	148	T1310060121-000	120
T1260163116-000	173	T1270243121-000	263	T1310060125-000	71
T1260163116-000	253	T1270243125-000	95	T1310060125-000	120
T1260163120-000	86	T1270243125-000	148	T1310100116-000	78
T1260163120-000	138	T1270243125-000	263	T1310100116-000	129
T1260163120-000	173	T1270243129-000	95	T1310100116-000	240
T1260163120-000	253	T1270243129-000	148	T1310100120-000	78
T1260163121-000	86	T1270243129-000	263	T1310100120-000	129
T1260163121-000	138	T1270243132-000	95	T1310100120-000	240
T1260163121-000	173	T1270243132-000	148	T1310100121-000	78
T1260163121-000	253	T1270243132-000	263	T1310100121-000	129
T1260163125-000	86	T1280103121-000	77	T1310100121-000	240
T1260163125-000	138	T1280103121-000	128	T1310100125-000	78
T1260163125-000	173	T1280103121-000	239	T1310100125-000	129
T1260163125-000	253	T1280103125-000	77	T1310100125-000	240
T1260243116-000	95	T1280103125-000	128	T1310160121-000	87
T1260243116-000	148	T1280103125-000	239	T1310160121-000	139
T1260243116-000	263	T1280103129-000	77	T1310160121-000	174

Part Number	Page	Part Number	Page	Part Number	Page
T1310160121-000	254	T1319030120-000	185	T1320160121-000	139
T1310160125-000	87	T1319031111-000	34	T1320160121-000	174
T1310160125-000	139	T1319031120-000	34	T1320160121-000	254
T1310160125-000	174	T1319031111-000	34	T1320160125-000	87
T1310160125-000	254	T1319031120-000	57	T1320160125-000	139
T1310160129-000	87	T1319031111-000	57	T1320160125-000	174
T1310160129-000	139	T1319031120-000	186	T1320160125-000	254
T1310160129-000	174	T1319100116-000	38	T1320160129-000	87
T1310160129-000	254	T1319100121-000	38	T1320160129-000	139
T1310160132-000	87	T1319100120-000	38	T1320160129-000	174
T1310160132-000	139	T1319100125-000	38	T1320160129-000	254
T1310160132-000	174	T1319100116-000	38	T1320160132-000	87
T1310160132-000	254	T1319100121-000	38	T1320160132-000	139
T1310240121-000	96	T1319100120-000	38	T1320160132-000	174
T1310240121-000	149	T1319100125-000	62	T1320160132-000	254
T1310240121-000	264	T1319160116-000	40	T1320240121-000	96
T1310240125-000	96	T1319160116-000	65	T1320240121-000	149
T1310240125-000	149	T1319160120-000	40	T1320240121-000	264
T1310240125-000	264	T1319160120-000	65	T1320240125-000	96
T1310240129-000	96	T1319160121-000	40	T1320240125-000	149
T1310240129-000	149	T1319160121-000	65	T1320240125-000	264
T1310240129-000	264	T1319160125-000	40	T1320240129-000	96
T1310240132-000	96	T1319160125-000	65	T1320240129-000	149
T1310240132-000	149	T1319320121-000	42	T1320240129-000	264
T1310240132-000	264	T1319320121-000	68	T1320240132-000	96
T1310320129-000	105	T1319320125-000	42	T1320240132-000	149
T1310320129-000	159	T1319320125-000	68	T1320240132-000	264
T1310320129-000	180	T1319320129-000	42	T1320320121-000	105
T1310320132-000	105	T1319320129-000	68	T1320320121-000	159
T1310320132-000	159	T1319320132-000	42	T1320320121-000	180
T1310320132-000	180	T1319320132-000	68	T1320320125-000	105
T1310320136-000	105	T1319320136-000	42	T1320320125-000	159
T1310320136-000	159	T1319320136-000	68	T1320320125-000	180
T1310320136-000	180	T1319320140-000	42	T1320320129-000	105
T1310320140-000	105	T1319320140-000	68	T1320320129-000	159
T1310320140-000	159	T1320060116-000	71	T1320320129-000	180
T1310320140-000	180	T1320060116-000	120	T1320320132-000	105
T1310480129-000	109	T1320060120-000	71	T1320320132-000	159
T1310480129-000	164	T1320060120-000	120	T1320320132-000	180
T1310480132-000	109	T1320060121-000	71	T1320320136-000	105
T1310480132-000	164	T1320060121-000	120	T1320320136-000	159
T1310480136-000	109	T1320060125-000	71	T1320320136-000	180
T1310480136-000	164	T1320060125-000	120	T1320320140-000	105
T1310480140-000	109	T1320100116-000	78	T1320320140-000	159
T1310480140-000	164	T1320100116-000	129	T1320320140-000	180
T1310480142-000	109	T1320100116-000	240	T1320320142-000	105
T1310480142-000	164	T1320100120-000	78	T1320320142-000	159
T1310480150-000	109	T1320100120-000	129	T1320320142-000	180
T1310480150-000	164	T1320100120-000	240	T1320320150-000	105
T1310480163-000	109	T1320100121-000	78	T1320320150-000	159
T1310480163-000	164	T1320100121-000	129	T1320320150-000	180
T1319030111-000	33	T1320100121-000	240	T1320480129-000	109
T1319030111-000	56	T1320100125-000	78	T1320480129-000	164
T1319030111-000	185	T1320100125-000	129	T1320480132-000	109
T1319030120-000	33	T1320100125-000	240	T1320480132-000	164
T1319030120-000	56	T1320160121-000	87	T1320480136-000	109

Part Number	Page	Part Number	Page	Part Number	Page
T1320480136-000	164	T1330060125-000	120	T1339160121-000	65
T1320480140-000	109	T1330060129-000	71	T1339160125-000	40
T1320480140-000	164	T1330060129-000	120	T1339160125-000	65
T1320480142-000	109	T1330060132-000	71	T1340060120-000	71
T1320480142-000	164	T1330060132-000	120	T1340060120-000	120
T1320480150-000	109	T1330100120-000	78	T1340060121-000	71
T1320480150-000	164	T1330100120-000	129	T1340060121-000	120
T1320480163-000	109	T1330100120-000	240	T1340060125-000	71
T1320480163-000	164	T1330100121-000	78	T1340060125-000	120
T1329030111-000	33	T1330100121-000	129	T1340060129-000	71
T1329030111-000	56	T1330100121-000	240	T1340060129-000	120
T1329030111-000	185	T1330100125-000	78	T1340060132-000	71
T1329030120-000	33	T1330100125-000	129	T1340060132-000	120
T1329030120-000	56	T1330100125-000	240	T1340100120-000	78
T1329030120-000	185	T1330100129-000	78	T1340100120-000	129
T1329031111-000	34	T1330100129-000	129	T1340100120-000	240
T1329031120-000	34	T1330100129-000	240	T1340100121-000	78
T1329031111-000	57	T1330100132-000	78	T1340100121-000	129
T1329031120-000	57	T1330100132-000	129	T1340100121-000	240
T1329031111-000	186	T1330100132-000	240	T1340100125-000	78
T1329031120-000	186	T1330160121-000	87	T1340100125-000	129
T1329080120-000	193	T1330160121-000	139	T1340100125-000	240
T1329080125-000	193	T1330160121-000	174	T1340100129-000	78
T1329100116-000	38	T1330160121-000	254	T1340100129-000	129
T1329100116-000	62	T1330160125-000	87	T1340100129-000	240
T1329100120-000	38	T1330160125-000	139	T1340100132-000	78
T1329100120-000	62	T1330160125-000	174	T1340100132-000	129
T1329100121-000	38	T1330160125-000	254	T1340100132-000	240
T1329100121-000	62	T1330160129-000	87	T1340160121-000	87
T1329100125-000	38	T1330160129-000	139	T1340160121-000	139
T1329100125-000	62	T1330160129-000	174	T1340160121-000	174
T1329160116-000	40	T1330160129-000	254	T1340160121-000	254
T1329160116-000	65	T1330160132-000	87	T1340160125-000	87
T1329160120-000	40	T1330160132-000	139	T1340160125-000	139
T1329160120-000	65	T1330160132-000	174	T1340160125-000	174
T1329160121-000	40	T1330160132-000	254	T1340160125-000	254
T1329160121-000	65	T1330160140-000	87	T1340160129-000	87
T1329160125-000	40	T1330160140-000	139	T1340160129-000	139
T1329160125-000	65	T1330160140-000	174	T1340160129-000	174
T1329320121-000	42	T1330160140-000	254	T1340160129-000	254
T1329320121-000	68	T1330240121-000	96	T1340160132-000	87
T1329320125-000	42	T1330240121-000	149	T1340160132-000	139
T1329320125-000	68	T1330240121-000	264	T1340160132-000	174
T1329320129-000	42	T1330240125-000	96	T1340160132-000	254
T1329320129-000	68	T1330240125-000	149	T1340160140-000	87
T1329320132-000	42	T1330240125-000	264	T1340160140-000	139
T1329320132-000	68	T1330240129-000	96	T1340160140-000	174
T1329320136-000	42	T1330240129-000	149	T1340160140-000	254
T1329320136-000	68	T1330240129-000	264	T1340240121-000	96
T1329320140-000	42	T1330240132-000	96	T1340240121-000	149
T1329320140-000	68	T1330240132-000	149	T1340240121-000	264
T1330060120-000	71	T1330240132-000	264	T1340240125-000	96
T1330060120-000	120	T1330240140-000	96	T1340240125-000	149
T1330060121-000	71	T1330240140-000	149	T1340240125-000	264
T1330060121-000	120	T1330240140-000	264	T1340240129-000	96
T1330060125-000	71	T1339160121-000	40	T1340240129-000	149

Part Number	Page	Part Number	Page	Part Number	Page
T1340240129-000	264	T1440101125-000	128	T1440322142-000	179
T1340240132-000	96	T1440101125-000	239	T1440322150-000	104
T1340240132-000	149	T1440101216-000	77	T1440322150-000	158
T1340240132-000	264	T1440101216-000	128	T1440322150-000	179
T1340240140-000	96	T1440101216-000	239	T1440322163-000	104
T1340240140-000	149	T1440101220-000	77	T1440322163-000	158
T1340240140-000	264	T1440101220-000	128	T1440322163-000	179
T1349160121-000	40	T1440101220-000	239	T1440322229-000	104
T1349160121-000	65	T1440101221-000	77	T1440322229-000	158
T1349160125-000	40	T1440101221-000	128	T1440322229-000	179
T1349160125-000	65	T1440101221-000	239	T1440322232-000	104
T1359090116-000	193	T1440101225-000	77	T1440322232-000	158
T1319080120-000	193	T1440101225-000	128	T1440322232-000	179
T1319080125-000	193	T1440101225-000	239	T1440322236-000	104
T1410101000-000	77	T1440161121-000	86	T1440322236-000	158
T1410101000-000	128	T1440161121-000	138	T1440322236-000	179
T1410101000-000	239	T1440161121-000	173	T1440322240-000	104
T1410161000-000	86	T1440161121-000	253	T1440322240-000	158
T1410161000-000	138	T1440161125-000	86	T1440322240-000	179
T1410161000-000	173	T1440161125-000	138	T1440322242-000	104
T1410161000-000	253	T1440161125-000	173	T1440322242-000	158
T1410241000-000	95	T1440161125-000	253	T1440322242-000	179
T1410241000-000	148	T1440161221-000	86	T1440322250-000	104
T1410241000-000	263	T1440161221-000	138	T1440322250-000	158
T1410322000-000	104	T1440161221-000	173	T1440322250-000	179
T1410322000-000	158	T1440161221-000	253	T1440322263-000	104
T1410322000-000	179	T1440161225-000	86	T1440322263-000	158
T1419320000-000	42	T1440161225-000	138	T1440322263-000	179
T1419320000-000	68	T1440161225-000	173	T1449320121-000	42
T1430100000-000	77	T1440161225-000	253	T1449320121-000	68
T1460100116-000	77	T1440241121-000	95	T1449320125-000	42
T1430100000-000	128	T1440241121-000	148	T1449320125-000	68
T1460100116-000	128	T1440241121-000	263	T1449320129-000	42
T1430100000-000	239	T1440241125-000	95	T1449320129-000	68
T1460100116-000	239	T1440241125-000	148	T1449320132-000	42
T1430160000-000	86	T1440241125-000	263	T1449320132-000	68
T1460160121-000	86	T1440241221-000	95	T1449320221-000	42
T1430160000-000	138	T1440241221-000	148	T1449320221-000	68
T1460160121-000	138	T1440241221-000	263	T1449320225-000	42
T1430160000-000	173	T1440241225-000	95	T1449320225-000	68
T1460160121-000	173	T1440241225-000	148	T1449320229-000	42
T1430160000-000	253	T1440241225-000	263	T1449320229-000	68
T1460160121-000	253	T1440322129-000	104	T1449320232-000	42
T1430240000-000	95	T1440322129-000	158	T1449320232-000	68
T1430240000-000	148	T1440322129-000	179	T1460100120-000	77
T1430240000-000	263	T1440322132-000	104	T1460100120-000	128
T1440101116-000	77	T1440322132-000	158	T1460100120-000	239
T1440101116-000	128	T1440322132-000	179	T1460100121-000	77
T1440101116-000	239	T1440322136-000	104	T1460100121-000	128
T1440101120-000	77	T1440322136-000	158	T1460100121-000	239
T1440101120-000	128	T1440322136-000	179	T1460100125-000	77
T1440101120-000	239	T1440322140-000	104	T1460100125-000	128
T1440101121-000	77	T1440322140-000	158	T1460100125-000	239
T1440101121-000	128	T1440322140-000	179	T1460100216-000	77
T1440101121-000	239	T1440322142-000	104	T1460100216-000	128
T1440101125-000	77	T1440322142-000	158	T1460100216-000	239

Part Number	Page	Part Number	Page	Part Number	Page
T1460100220-000	77	T1470101232-000	239	T1470241232-000	263
T1460100220-000	128	T1470161121-000	86	T1490100121-000	77
T1460100220-000	239	T1470161121-000	138	T1490100121-000	128
T1460100221-000	77	T1470161121-000	173	T1490100121-000	239
T1460100221-000	128	T1470161121-000	253	T1490100125-000	77
T1460100221-000	239	T1470161125-000	86	T1490100125-000	128
T1460100225-000	77	T1470161125-000	138	T1490100125-000	239
T1460100225-000	128	T1470161125-000	173	T1490100129-000	77
T1460100225-000	239	T1470161125-000	253	T1490100129-000	128
T1460160125-000	86	T1470161129-000	86	T1490100129-000	239
T1460160125-000	138	T1470161129-000	138	T1490100132-000	77
T1460160125-000	173	T1470161129-000	173	T1490100132-000	128
T1460160125-000	253	T1470161129-000	253	T1490100132-000	239
T1460160221-000	86	T1470161132-000	86	T1490100221-000	77
T1460160221-000	138	T1470161132-000	138	T1490100221-000	128
T1460160221-000	173	T1470161132-000	173	T1490100221-000	239
T1460160221-000	253	T1470161132-000	253	T1490100225-000	77
T1460160225-000	86	T1470161221-000	86	T1490100225-000	128
T1460160225-000	138	T1470161221-000	138	T1490100225-000	239
T1460160225-000	173	T1470161221-000	173	T1490100229-000	77
T1460160225-000	253	T1470161221-000	253	T1490100229-000	128
T1460240121-000	95	T1470161225-000	86	T1490100229-000	239
T1460240121-000	148	T1470161225-000	138	T1490100232-000	77
T1460240121-000	263	T1470161225-000	173	T1490100232-000	128
T1460240125-000	95	T1470161225-000	253	T1490100232-000	239
T1460240125-000	148	T1470161229-000	86	T1490160121-000	86
T1460240125-000	263	T1470161229-000	138	T1490160121-000	138
T1460240221-000	95	T1470161229-000	173	T1490160121-000	173
T1460240221-000	148	T1470161229-000	253	T1490160121-000	253
T1460240221-000	263	T1470161232-000	86	T1490160125-000	86
T1460240225-000	95	T1470161232-000	138	T1490160125-000	138
T1460240225-000	148	T1470161232-000	173	T1490160125-000	173
T1460240225-000	263	T1470161232-000	253	T1490160125-000	253
T1470101121-000	77	T1470241121-000	95	T1490160129-000	86
T1470101121-000	128	T1470241121-000	148	T1490160129-000	138
T1470101121-000	239	T1470241121-000	263	T1490160129-000	173
T1470101125-000	77	T1470241125-000	95	T1490160129-000	253
T1470101125-000	128	T1470241125-000	148	T1490160132-000	86
T1470101125-000	239	T1470241125-000	263	T1490160132-000	138
T1470101129-000	77	T1470241129-000	95	T1490160132-000	173
T1470101129-000	128	T1470241129-000	148	T1490160132-000	253
T1470101129-000	239	T1470241129-000	263	T1490160221-000	86
T1470101132-000	77	T1470241132-000	95	T1490160221-000	138
T1470101132-000	128	T1470241132-000	148	T1490160221-000	173
T1470101132-000	239	T1470241132-000	263	T1490160221-000	253
T1470101221-000	77	T1470241221-000	95	T1490160225-000	86
T1470101221-000	128	T1470241221-000	148	T1490160225-000	138
T1470101221-000	239	T1470241221-000	263	T1490160225-000	173
T1470101225-000	77	T1470241225-000	95	T1490160225-000	253
T1470101225-000	128	T1470241225-000	148	T1490160229-000	86
T1470101225-000	239	T1470241225-000	263	T1490160229-000	138
T1470101229-000	77	T1470241229-000	95	T1490160229-000	173
T1470101229-000	128	T1470241229-000	148	T1490160229-000	253
T1470101229-000	239	T1470241229-000	263	T1490160232-000	86
T1470101232-000	77	T1470241232-000	95	T1490160232-000	138
T1470101232-000	128	T1470241232-000	148	T1490160232-000	173

Part Number	Page	Part Number	Page	Part Number	Page
T1490160232-000	253	T1510062100-000	121	T1610103125-000	130
T1490240121-000	95	T1510103000-000	79	T1610103125-000	241
T1490240121-000	148	T1510103000-000	130	T1610103216-000	79
T1490240121-000	263	T1510103000-000	241	T1610103216-000	130
T1490240125-000	95	T1510103001-000	79	T1610103216-000	241
T1490240125-000	148	T1510103001-000	130	T1610103220-000	79
T1490240125-000	263	T1510103001-000	241	T1610103220-000	130
T1490240129-000	95	T1510163000-000	88	T1610103220-000	241
T1490240129-000	148	T1510163000-000	140	T1610103221-000	79
T1490240129-000	263	T1510163000-000	175	T1610103221-000	130
T1490240132-000	95	T1510163000-000	255	T1610103221-000	241
T1490240132-000	148	T1510243000-000	97	T1610103225-000	79
T1490240132-000	263	T1510243000-000	150	T1610103225-000	130
T1490240221-000	95	T1510243000-000	265	T1610103225-000	241
T1490240221-000	148	T1510322000-000	105	T1610163116-000	88
T1490240221-000	263	T1510322000-000	159	T1610163116-000	140
T1490240225-000	95	T1510322000-000	180	T1610163116-000	175
T1490240225-000	148	T1510482000-000	109	T1610163116-000	255
T1490240225-000	263	T1510482000-000	164	T1610163120-000	88
T1490240229-000	95	T1519101000-000	38	T1610163120-000	140
T1490240229-000	148	T1519101000-000	38	T1610163120-000	175
T1490240229-000	263	T1519101000-000	62	T1610163120-000	255
T1490240232-000	95	T1519101000-000	62	T1610163121-000	88
T1490240232-000	148	T1519161000-000	40	T1610163121-000	140
T1490240232-000	263	T1519161000-000	65	T1610163121-000	175
T1500062000-000	72	T1519162000-000	40	T1610163121-000	255
T1500062000-000	121	T1519162000-000	65	T1610163125-000	88
T1500103000-000	79	T1549030000-000	33	T1610163125-000	140
T1500103000-000	130	T1549030000-000	56	T1610163125-000	175
T1500103000-000	241	T1549030000-000	185	T1610163125-000	255
T1500163000-000	88	T1610062116-000	72	T1610163216-000	88
T1500163000-000	140	T1610062116-000	121	T1610163216-000	140
T1500163000-000	175	T1610062120-000	72	T1610163216-000	175
T1500163000-000	255	T1610062120-000	121	T1610163216-000	255
T1500243000-000	97	T1610062121-000	72	T1610163220-000	88
T1500243000-000	150	T1610062121-000	121	T1610163220-000	140
T1500243000-000	265	T1610062125-000	72	T1610163220-000	175
T1500322000-000	105	T1610062125-000	121	T1610163220-000	255
T1500322000-000	159	T1610062216-000	72	T1610163221-000	88
T1500322000-000	180	T1610062216-000	121	T1610163221-000	140
T1500482000-000	109	T1610062220-000	72	T1610163221-000	175
T1500482000-000	164	T1610062220-000	121	T1610163221-000	255
T1509030000-000	33	T1610062221-000	72	T1610163225-000	88
T1509030000-000	56	T1610062221-000	121	T1610163225-000	140
T1509030000-000	185	T1610062225-000	72	T1610163225-000	175
T1509031100-000	34	T1610062225-000	121	T1610163225-000	255
T1509031100-000	57	T1610103116-000	79	T1610243116-000	97
T1509031100-000	186	T1610103116-000	130	T1610243116-000	150
T1509031111-000	34	T1610103116-000	241	T1610243116-000	265
T1509031111-000	57	T1610103120-000	79	T1610243120-000	97
T1509031111-000	186	T1610103120-000	130	T1610243120-000	150
T1509101000-000	38	T1610103120-000	241	T1610243120-000	265
T1509101000-000	62	T1610103121-000	79	T1610243121-000	97
T1509161000-000	40	T1610103121-000	130	T1610243121-000	150
T1509161000-000	65	T1610103121-000	241	T1610243121-000	265
T1510062100-000	72	T1610103125-000	79	T1610243125-000	97

Part Number	Page	Part Number	Page	Part Number	Page
T1610243125-000	150	T1619030111-000	33	T1620062125-000	72
T1610243125-000	265	T1619030111-000	56	T1620062125-000	121
T1610243216-000	97	T1619030111-000	185	T1620062216-000	72
T1610243216-000	150	T1619030116-000	33	T1620062216-000	121
T1610243216-000	265	T1619030116-000	56	T1620062220-000	72
T1610243220-000	97	T1619030116-000	185	T1620062220-000	121
T1610243220-000	150	T1619030120-000	33	T1620062221-000	72
T1610243220-000	265	T1619030120-000	56	T1620062221-000	121
T1610243221-000	97	T1619030120-000	185	T1620062225-000	72
T1610243221-000	150	T1619031111-000	34	T1620062225-000	121
T1610243221-000	265	T1619031116-000	34	T1620103116-000	79
T1610243225-000	97	T1619031120-000	34	T1620103116-000	130
T1610243225-000	150	T1619031111-000	34	T1620103116-000	241
T1610243225-000	265	T1619031116-000	34	T1620103120-000	79
T1610322129-000	105	T1619031120-000	57	T1620103120-000	130
T1610322129-000	159	T1619031111-000	57	T1620103120-000	241
T1610322129-000	180	T1619031116-000	57	T1620103121-000	79
T1610322132-000	105	T1619031120-000	186	T1620103121-000	130
T1610322132-000	159	T1619101116-000	38	T1620103121-000	241
T1610322132-000	180	T1619101116-000	62	T1620103125-000	79
T1610322140-000	105	T1619101120-000	38	T1620103125-000	130
T1610322140-000	159	T1619101120-000	62	T1620103125-000	241
T1610322140-000	180	T1619101121-000	38	T1620103216-000	79
T1610322229-000	105	T1619101121-000	62	T1620103216-000	130
T1610322229-000	159	T1619101125-000	38	T1620103216-000	241
T1610322229-000	180	T1619101125-000	62	T1620103220-000	79
T1610322232-000	105	T1619101216-000	38	T1620103220-000	130
T1610322232-000	159	T1619101216-000	62	T1620103220-000	241
T1610322232-000	180	T1619101220-000	38	T1620103221-000	79
T1610322240-000	105	T1619101220-000	62	T1620103221-000	130
T1610322240-000	159	T1619101221-000	38	T1620103221-000	241
T1610322240-000	180	T1619101221-000	62	T1620103225-000	79
T1610482129-000	109	T1619101225-000	38	T1620103225-000	130
T1610482129-000	164	T1619101225-000	62	T1620103225-000	241
T1610482132-000	109	T1619161116-000	40	T1620163116-000	88
T1610482132-000	164	T1619161116-000	65	T1620163116-000	140
T1610482136-000	109	T1619161120-000	40	T1620163116-000	175
T1610482136-000	164	T1619161120-000	65	T1620163116-000	255
T1610482140-000	109	T1619161121-000	40	T1620163120-000	88
T1610482140-000	164	T1619161121-000	65	T1620163120-000	140
T1610482142-000	109	T1619161125-000	40	T1620163120-000	175
T1610482142-000	164	T1619161125-000	65	T1620163120-000	255
T1610482150-000	109	T1619161216-000	40	T1620163121-000	88
T1610482150-000	164	T1619161216-000	65	T1620163121-000	140
T1610482229-000	109	T1619161220-000	40	T1620163121-000	175
T1610482229-000	164	T1619161220-000	65	T1620163121-000	255
T1610482232-000	109	T1619161221-000	40	T1620163125-000	88
T1610482232-000	164	T1619161221-000	65	T1620163125-000	140
T1610482236-000	109	T1619161225-000	40	T1620163125-000	175
T1610482236-000	164	T1619161225-000	65	T1620163125-000	255
T1610482240-000	109	T1620062116-000	72	T1620163216-000	88
T1610482240-000	164	T1620062116-000	121	T1620163216-000	140
T1610482242-000	109	T1620062120-000	72	T1620163216-000	175
T1610482242-000	164	T1620062120-000	121	T1620163216-000	255
T1610482250-000	109	T1620062121-000	72	T1620163220-000	88
T1610482250-000	164	T1620062121-000	121	T1620163220-000	140

Part Number	Page	Part Number	Page	Part Number	Page
T1620163220-000	175	T1620480136-000	109	T1650062129-000	72
T1620163220-000	255	T1620480136-000	164	T1650062129-000	121
T1620163221-000	88	T1620480140-000	109	T1650062132-000	72
T1620163221-000	140	T1620480140-000	164	T1650062132-000	121
T1620163221-000	175	T1620480142-000	109	T1650062221-000	72
T1620163221-000	255	T1620480142-000	164	T1650062221-000	121
T1620163225-000	88	T1620480150-000	109	T1650062225-000	72
T1620163225-000	140	T1620480150-000	164	T1650062225-000	121
T1620163225-000	175	T1620480229-000	109	T1650062229-000	72
T1620163225-000	255	T1620480229-000	164	T1650062229-000	121
T1620243116-000	97	T1620480232-000	109	T1650062232-000	72
T1620243116-000	150	T1620480232-000	164	T1650062232-000	121
T1620243116-000	265	T1620480236-000	109	T1650103121-000	79
T1620243120-000	97	T1620480236-000	164	T1650103121-000	130
T1620243120-000	150	T1620480240-000	109	T1650103121-000	241
T1620243120-000	265	T1620480240-000	164	T1650103125-000	79
T1620243121-000	97	T1620480242-000	109	T1650103125-000	130
T1620243121-000	150	T1620480242-000	164	T1650103125-000	241
T1620243121-000	265	T1620480250-000	109	T1650103129-000	79
T1620243125-000	97	T1620480250-000	164	T1650103129-000	130
T1620243125-000	150	T1629101116-000	38	T1650103129-000	241
T1620243125-000	265	T1629101116-000	62	T1650103132-000	79
T1620243216-000	97	T1629101120-000	38	T1650103132-000	130
T1620243216-000	150	T1629101120-000	62	T1650103132-000	241
T1620243216-000	265	T1629101121-000	38	T1650103221-000	79
T1620243220-000	97	T1629101121-000	62	T1650103221-000	130
T1620243220-000	150	T1629101125-000	38	T1650103221-000	241
T1620243220-000	265	T1629101125-000	62	T1650103225-000	79
T1620243221-000	97	T1629101216-000	38	T1650103225-000	130
T1620243221-000	150	T1629101216-000	62	T1650103225-000	241
T1620243221-000	265	T1629101220-000	38	T1650103229-000	79
T1620243225-000	97	T1629101220-000	62	T1650103229-000	130
T1620243225-000	150	T1629101221-000	38	T1650103229-000	241
T1620243225-000	265	T1629101221-000	62	T1650103232-000	79
T1620320129-000	105	T1629101225-000	38	T1650103232-000	130
T1620320129-000	159	T1629101225-000	62	T1650103232-000	241
T1620320129-000	180	T1629161116-000	40	T1650163121-000	88
T1620320132-000	105	T1629161116-000	65	T1650163121-000	140
T1620320132-000	159	T1629161120-000	40	T1650163121-000	175
T1620320132-000	180	T1629161120-000	65	T1650163121-000	255
T1620320140-000	105	T1629161121-000	40	T1650163125-000	88
T1620320140-000	159	T1629161121-000	65	T1650163125-000	140
T1620320140-000	180	T1629161125-000	40	T1650163125-000	175
T1620320229-000	105	T1629161125-000	65	T1650163125-000	255
T1620320229-000	159	T1629161216-000	40	T1650163129-000	88
T1620320229-000	180	T1629161216-000	65	T1650163129-000	140
T1620320232-000	105	T1629161220-000	40	T1650163129-000	175
T1620320232-000	159	T1629161220-000	65	T1650163129-000	255
T1620320232-000	180	T1629161221-000	40	T1650163132-000	88
T1620320240-000	105	T1629161221-000	65	T1650163132-000	140
T1620320240-000	159	T1629161225-000	40	T1650163132-000	175
T1620320240-000	180	T1629161225-000	65	T1650163132-000	255
T1620480129-000	109	T1650062121-000	72	T1650163221-000	88
T1620480129-000	164	T1650062121-000	121	T1650163221-000	140
T1620480132-000	109	T1650062125-000	72	T1650163221-000	175
T1620480132-000	164	T1650062125-000	121	T1650163221-000	255

Part Number	Page	Part Number	Page	Part Number	Page
T1650163225-000	88	T1660103125-000	130	T1660243125-000	150
T1650163225-000	140	T1660103125-000	241	T1660243125-000	265
T1650163225-000	175	T1660103129-000	79	T1660243129-000	97
T1650163225-000	255	T1660103129-000	130	T1660243129-000	150
T1650163229-000	88	T1660103129-000	241	T1660243129-000	265
T1650163229-000	140	T1660103132-000	79	T1660243132-000	97
T1650163229-000	175	T1660103132-000	130	T1660243132-000	150
T1650163229-000	255	T1660103132-000	241	T1660243132-000	265
T1650163232-000	88	T1660103221-000	79	T1660243221-000	97
T1650163232-000	140	T1660103221-000	130	T1660243221-000	150
T1650163232-000	175	T1660103221-000	241	T1660243221-000	265
T1650163232-000	255	T1660103225-000	79	T1660243225-000	97
T1650243121-000	97	T1660103225-000	130	T1660243225-000	150
T1650243121-000	150	T1660103225-000	241	T1660243225-000	265
T1650243121-000	265	T1660103229-000	79	T1660243229-000	97
T1650243125-000	97	T1660103229-000	130	T1660243229-000	150
T1650243125-000	150	T1660103229-000	241	T1660243229-000	265
T1650243125-000	265	T1660103232-000	79	T1660243232-000	97
T1650243129-000	97	T1660103232-000	130	T1660243232-000	150
T1650243129-000	150	T1660103232-000	241	T1660243232-000	265
T1650243129-000	265	T1660163121-000	88	T1710101116-000	76
T1650243132-000	97	T1660163121-000	140	T1710101116-000	127
T1650243132-000	150	T1660163121-000	175	T1710101116-000	238
T1650243132-000	265	T1660163121-000	255	T1710101120-000	76
T1650243221-000	97	T1660163125-000	88	T1710101120-000	127
T1650243221-000	150	T1660163125-000	140	T1710101120-000	238
T1650243221-000	265	T1660163125-000	175	T1710101125-000	76
T1650243225-000	97	T1660163125-000	255	T1710101125-000	127
T1650243225-000	150	T1660163129-000	88	T1710101125-000	238
T1650243225-000	265	T1660163129-000	140	T1710161121-000	85
T1650243229-000	97	T1660163129-000	175	T1710161121-000	137
T1650243229-000	150	T1660163129-000	255	T1710161121-000	172
T1650243229-000	265	T1660163132-000	88	T1710161121-000	252
T1650243232-000	97	T1660163132-000	140	T1710161125-000	85
T1650243232-000	150	T1660163132-000	175	T1710161125-000	137
T1650243232-000	265	T1660163132-000	255	T1710161125-000	172
T1660062121-000	72	T1660163221-000	88	T1710161125-000	252
T1660062121-000	121	T1660163221-000	140	T1710161132-000	85
T1660062125-000	72	T1660163221-000	175	T1710161132-000	137
T1660062125-000	121	T1660163221-000	255	T1710161132-000	172
T1660062129-000	72	T1660163225-000	88	T1710161132-000	252
T1660062129-000	121	T1660163225-000	140	T1710241121-000	94
T1660062132-000	72	T1660163225-000	175	T1710241121-000	147
T1660062132-000	121	T1660163225-000	255	T1710241121-000	262
T1660062221-000	72	T1660163229-000	88	T1710241125-000	94
T1660062221-000	121	T1660163229-000	140	T1710241125-000	147
T1660062225-000	72	T1660163229-000	175	T1710241125-000	262
T1660062225-000	121	T1660163229-000	255	T1710241132-000	94
T1660062229-000	72	T1660163232-000	88	T1710241132-000	147
T1660062229-000	121	T1660163232-000	140	T1710241132-000	262
T1660062232-000	72	T1660163232-000	175	T1710322129-000	104
T1660062232-000	121	T1660163232-000	255	T1710322129-000	158
T1660103121-000	79	T1660243121-000	97	T1710322129-000	179
T1660103121-000	130	T1660243121-000	150	T1710322132-000	104
T1660103121-000	241	T1660243121-000	265	T1710322132-000	158
T1660103125-000	79	T1660243125-000	97	T1710322132-000	179

Part Number	Page	Part Number	Page	Part Number	Page
T1710322136-000	104	T1730242132-000	149	T1750161140-000	172
T1710322136-000	158	T1730242132-000	264	T1750161140-000	252
T1710322136-000	179	T1739030111-000	33	T1750241121-000	94
T1710322140-000	104	T1739030111-000	56	T1750241121-000	147
T1710322140-000	158	T1739030111-000	185	T1750241121-000	262
T1710322140-000	179	T1739030120-000	33	T1750241125-000	94
T1710322142-000	104	T1739030120-000	56	T1750241125-000	147
T1710322142-000	158	T1739030120-000	185	T1750241125-000	262
T1710322142-000	179	T1739031111-000	34	T1750241129-000	94
T1710322150-000	104	T1739031120-000	34	T1750241129-000	147
T1710322150-000	158	T1739031111-000	57	T1750241129-000	262
T1710322150-000	179	T1739031120-000	57	T1750241132-000	94
T1710322163-000	104	T1739031111-000	186	T1750241132-000	147
T1710322163-000	158	T1739031120-000	186	T1750241132-000	262
T1710322163-000	179	T1739101116-000	38	T1750241140-000	94
T1730062116-000	71	T1739101116-000	62	T1750241140-000	147
T1730062116-000	120	T1739101120-000	38	T1750241140-000	262
T1730062120-000	71	T1739101120-000	62	T1770062120-000	71
T1730062120-000	120	T1739101125-000	38	T1770062120-000	120
T1730062125-000	71	T1739101125-000	62	T1770062121-000	71
T1730062125-000	120	T1739161116-000	40	T1770062121-000	120
T1730103116-000	78	T1739161116-000	65	T1770062125-000	71
T1730103116-000	129	T1739161120-000	40	T1770062125-000	120
T1730103116-000	240	T1739161120-000	65	T1770062129-000	71
T1730103120-000	78	T1739161125-000	40	T1770062129-000	120
T1730103120-000	129	T1739161125-000	65	T1770062132-000	71
T1730103120-000	240	T1750101121-000	76	T1770062132-000	120
T1730103125-000	78	T1750101121-000	127	T1770103121-000	78
T1730103125-000	129	T1750101121-000	238	T1770103121-000	129
T1730103125-000	240	T1750101125-000	76	T1770103121-000	240
T1730163121-000	87	T1750101125-000	127	T1770103125-000	78
T1730163121-000	139	T1750101125-000	238	T1770103125-000	129
T1730163121-000	174	T1750101129-000	76	T1770103125-000	240
T1730163121-000	254	T1750101129-000	127	T1770103129-000	78
T1730163125-000	87	T1750101129-000	238	T1770103129-000	129
T1730163125-000	139	T1750101132-000	76	T1770103129-000	240
T1730163125-000	174	T1750101132-000	127	T1770103132-000	78
T1730163125-000	254	T1750101132-000	238	T1770103132-000	129
T1730163129-000	87	T1750161121-000	85	T1770103132-000	240
T1730163129-000	139	T1750161121-000	137	T1770163121-000	87
T1730163129-000	174	T1750161121-000	172	T1770163121-000	139
T1730163129-000	254	T1750161121-000	252	T1770163121-000	174
T1730163132-000	87	T1750161125-000	85	T1770163121-000	254
T1730163132-000	139	T1750161125-000	137	T1770163125-000	87
T1730163132-000	174	T1750161125-000	172	T1770163125-000	139
T1730163132-000	254	T1750161125-000	252	T1770163125-000	174
T1730242121-000	96	T1750161129-000	85	T1770163125-000	254
T1730242121-000	149	T1750161129-000	137	T1770163129-000	87
T1730242121-000	264	T1750161129-000	172	T1770163129-000	139
T1730242125-000	96	T1750161129-000	252	T1770163129-000	174
T1730242125-000	149	T1750161132-000	85	T1770163129-000	254
T1730242125-000	264	T1750161132-000	137	T1770163132-000	87
T1730242129-000	96	T1750161132-000	172	T1770163132-000	139
T1730242129-000	149	T1750161132-000	252	T1770163132-000	174
T1730242129-000	264	T1750161140-000	85	T1770163132-000	254
T1730242132-000	96	T1750161140-000	137	T1770163140-000	87

Part Number	Page	Part Number	Page	Part Number	Page
T1770163140-000	139	T1910100129-000	297	T1920240140-000	297
T1770163140-000	174	T1910100132-000	297	T1922061121-000	299
T1770163140-000	254	T1910160116-000	297	T1922061125-000	299
T1770243121-000	96	T1910160121-000	297	T1922061129-000	299
T1770243121-000	149	T1910160125-000	297	T1922061132-000	299
T1770243121-000	264	T1910160129-000	297	T1922061136-000	299
T1770243125-000	96	T1910160132-000	297	T1922061140-000	299
T1770243125-000	149	T1910160140-000	297	T1922101121-000	299
T1770243125-000	264	T1910240116-000	297	T1922101125-000	299
T1770243129-000	96	T1910240121-000	297	T1922101129-000	299
T1770243129-000	149	T1910240125-000	297	T1922101132-000	299
T1770243129-000	264	T1910240129-000	297	T1922101136-000	299
T1770243132-000	96	T1910240132-000	297	T1922101140-000	299
T1770243132-000	149	T1910240140-000	297	T1922161121-000	299
T1770243132-000	264	T1912061121-000	299	T1922161125-000	299
T1770243140-000	96	T1912061125-000	299	T1922161129-000	299
T1770243140-000	149	T1912101121-000	299	T1922161132-000	299
T1770243140-000	264	T1912101125-000	299	T1922161136-000	299
T1779101121-000	38	T1912101129-000	299	T1922161140-000	299
T1779101121-000	62	T1912101132-000	299	T1922241121-000	299
T1779101125-000	38	T1912161121-000	299	T1922241125-000	299
T1779101125-000	62	T1912161125-000	299	T1922241129-000	299
T1779161121-000	40	T1912161129-000	299	T1922241132-000	299
T1779161121-000	65	T1912161132-000	299	T1922241136-000	299
T1779161125-000	40	T1912161140-000	299	T1922241140-000	299
T1779161125-000	65	T1912241121-000	299	T1930030000-000	278
T1812242121-000	279	T1912241125-000	299	T1930060000-000	298
T1812242125-000	279	T1912241129-000	299	T1930100000-000	298
T1812242132-000	279	T1912241132-000	299	T1930160000-000	298
T1822242121-000	279	T1912241136-000	299	T1930240000-000	298
T1822242125-000	279	T1912241140-000	299	T1932061000-000	299
T1822242129-000	279	T1920030116-000	278	T1932101000-000	299
T1822242132-000	279	T1920030120-000	278	T1932161000-000	299
T1822242140-000	279	T1920060116-000	297	T1932241000-000	299
T1852242121-000	279	T1920060120-000	297	T1946030000-000	278
T1852242125-000	279	T1920060121-000	297	T1946031000-000	278
T1852242221-000	279	T1920060125-000	297	T1946032000-000	278
T1852242225-000	279	T1920060129-000	297	T1950100121-000	298
T1870002201-000	306	T1920060132-000	297	T1950100125-000	298
T1870002201-000	306	T1920100116-000	297	T1950100129-000	298
T1870002201-000	306	T1920100120-000	297	T1950100132-000	298
T1870002201-000	306	T1920100121-000	297	T1990060000-000	298
T1870062101-000	306	T1920100125-000	297	T1990100000-000	298
T1870102101-000	306	T1920100129-000	297	T1990160000-000	298
T1870162101-000	306	T1920100132-000	297	T1990240000-000	298
T1870242101-000	306	T1920160116-000	297	T1990240000-000	299
T1910060116-000	297	T1920160121-000	297	T1990240001-000	298
T1910060120-000	297	T1920160125-000	297	T1912063800-000	326
T1910060121-000	297	T1920160129-000	297	T1912064800-000	326
T1910060125-000	297	T1920160132-000	297	T1912065200-000	326
T1910060129-000	297	T1920160140-000	297	T1912065600-000	326
T1910060132-000	297	T1920240116-000	297	T1912066000-000	326
T1910100116-000	297	T1920240121-000	297	T1918121400-000	326
T1910100120-000	297	T1920240125-000	297	T1918121800-000	326
T1910100121-000	297	T1920240129-000	297	T1922182200-000	326
T1910100125-000	297	T1920240132-000	297	T1926222600-000	326

Part Number	Page	Part Number	Page	Part Number	Page
T1932263200-000	326	T2020001010-000	60	T2020001025-000	101
T1934303400-000	326	T2020001015-000	60	T2020001002-000	103
T1942384200-000	326	T2020001025-000	60	T2020001005-000	103
T1964566400-000	326	T2020001002-000	63	T2020001008-000	103
T1970667000-000	326	T2020001005-000	63	T2020001010-000	103
T2010032101-000	29	T2020001008-000	63	T2020001015-000	103
T2010032201-000	29	T2020001010-000	63	T2020001025-000	103
T2010033101-000	29	T2020001015-000	63	T2020001002-000	106
T2010033201-000	29	T2020001025-000	63	T2020001005-000	106
T2010042101-000	29	T2020001002-000	66	T2020001008-000	106
T2010042201-000	29	T2020001005-000	66	T2020001010-000	106
T2010043101-000	29	T2020001008-000	66	T2020001015-000	106
T2010043201-000	29	T2020001010-000	66	T2020001025-000	106
T2010102101-000	37	T2020001015-000	66	T2020001002-000	108
T2010102201-000	37	T2020001025-000	66	T2020001005-000	108
T2010162101-000	39	T2020001002-000	69	T2020001008-000	108
T2010162101-000	41	T2020001005-000	69	T2020001010-000	108
T2010162201-000	39	T2020001008-000	69	T2020001015-000	108
T2010162201-000	41	T2020001010-000	69	T2020001025-000	108
T2010164101-000	39	T2020001015-000	69	T2020001002-000	110
T2010164101-000	39	T2020001025-000	69	T2020001005-000	110
T2010324101-000	41	T2020001002-000	74	T2020001008-000	110
T2010164201-000	39	T2020001005-000	74	T2020001010-000	110
T2010164201-000	41	T2020001008-000	74	T2020001015-000	110
T2010322101-000	41	T2020001010-000	74	T2020001025-000	110
T2010322201-000	41	T2020001015-000	74	T2020001002-000	184
T2010324201-000	41	T2020001025-000	74	T2020001005-000	184
T2019092101-000	189	T2020001002-000	82	T2020001008-000	184
T2019092201-000	189	T2020001005-000	82	T2020001010-000	184
T2020001002-000	27	T2020001008-000	82	T2020001015-000	184
T2020001005-000	27	T2020001010-000	82	T2020001025-000	184
T2020001008-000	27	T2020001015-000	82	T2020001002-000	190
T2020001010-000	27	T2020001025-000	82	T2020001005-000	190
T2020001015-000	27	T2020001002-000	84	T2020001008-000	190
T2020001025-000	27	T2020001005-000	84	T2020001010-000	190
T2020001002-000	31	T2020001008-000	84	T2020001015-000	190
T2020001005-000	31	T2020001010-000	84	T2020001025-000	190
T2020001008-000	31	T2020001015-000	84	T2020001002-000	221
T2020001010-000	31	T2020001025-000	84	T2020001005-000	221
T2020001015-000	31	T2020001002-000	91	T2020001008-000	221
T2020001025-000	31	T2020001005-000	91	T2020001010-000	221
T2020001002-000	48	T2020001008-000	91	T2020001015-000	221
T2020001005-000	48	T2020001010-000	91	T2020001025-000	221
T2020001008-000	48	T2020001015-000	91	T2020001002-000	223
T2020001010-000	48	T2020001025-000	91	T2020001005-000	223
T2020001015-000	48	T2020001002-000	93	T2020001008-000	223
T2020001025-000	48	T2020001005-000	93	T2020001010-000	223
T2020001002-000	55	T2020001008-000	93	T2020001015-000	223
T2020001005-000	55	T2020001010-000	93	T2020001025-000	223
T2020001008-000	55	T2020001015-000	93	T2020001002-000	237
T2020001010-000	55	T2020001025-000	93	T2020001005-000	237
T2020001015-000	55	T2020001002-000	101	T2020001008-000	237
T2020001025-000	55	T2020001005-000	101	T2020001010-000	237
T2020001002-000	60	T2020001008-000	101	T2020001015-000	237
T2020001005-000	60	T2020001010-000	101	T2020001025-000	237
T2020001008-000	60	T2020001015-000	101	T2020001002-000	249

Part Number	Page	Part Number	Page	Part Number	Page
T2020001005-000	249	T2020002010-000	66	T2020002025-000	106
T2020001008-000	249	T2020002015-000	66	T2020002002-000	108
T2020001010-000	249	T2020002025-000	66	T2020002005-000	108
T2020001015-000	249	T2020002002-000	69	T2020002008-000	108
T2020001025-000	249	T2020002005-000	69	T2020002010-000	108
T2020001002-000	251	T2020002008-000	69	T2020002015-000	108
T2020001005-000	251	T2020002010-000	69	T2020002025-000	108
T2020001008-000	251	T2020002015-000	69	T2020002002-000	110
T2020001010-000	251	T2020002025-000	69	T2020002005-000	110
T2020001015-000	251	T2020002002-000	74	T2020002008-000	110
T2020001025-000	251	T2020002005-000	74	T2020002010-000	110
T2020001002-000	303	T2020002008-000	74	T2020002015-000	110
T2020001005-000	303	T2020002010-000	74	T2020002025-000	110
T2020001008-000	303	T2020002015-000	74	T2020002002-000	184
T2020001010-000	303	T2020002025-000	74	T2020002005-000	184
T2020001015-000	303	T2020002002-000	82	T2020002008-000	184
T2020001025-000	303	T2020002005-000	82	T2020002010-000	184
T2020002002-000	27	T2020002008-000	82	T2020002015-000	184
T2020002005-000	27	T2020002010-000	82	T2020002025-000	184
T2020002008-000	27	T2020002015-000	82	T2020002002-000	190
T2020002010-000	27	T2020002025-000	82	T2020002005-000	190
T2020002015-000	27	T2020002002-000	84	T2020002008-000	190
T2020002025-000	27	T2020002005-000	84	T2020002010-000	190
T2020002002-000	31	T2020002008-000	84	T2020002015-000	190
T2020002005-000	31	T2020002010-000	84	T2020002025-000	190
T2020002008-000	31	T2020002015-000	84	T2020002002-000	221
T2020002010-000	31	T2020002025-000	84	T2020002005-000	221
T2020002015-000	31	T2020002002-000	91	T2020002008-000	221
T2020002025-000	31	T2020002005-000	91	T2020002010-000	221
T2020002002-000	48	T2020002008-000	91	T2020002015-000	221
T2020002005-000	48	T2020002010-000	91	T2020002025-000	221
T2020002008-000	48	T2020002015-000	91	T2020002002-000	223
T2020002010-000	48	T2020002025-000	91	T2020002005-000	223
T2020002015-000	48	T2020002002-000	93	T2020002008-000	223
T2020002025-000	48	T2020002005-000	93	T2020002010-000	223
T2020002002-000	55	T2020002008-000	93	T2020002015-000	223
T2020002005-000	55	T2020002010-000	93	T2020002025-000	223
T2020002008-000	55	T2020002015-000	93	T2020002002-000	237
T2020002010-000	55	T2020002025-000	93	T2020002005-000	237
T2020002015-000	55	T2020002002-000	101	T2020002008-000	237
T2020002025-000	55	T2020002005-000	101	T2020002010-000	237
T2020002002-000	60	T2020002008-000	101	T2020002015-000	237
T2020002005-000	60	T2020002010-000	101	T2020002025-000	237
T2020002008-000	60	T2020002015-000	101	T2020002002-000	249
T2020002010-000	60	T2020002025-000	101	T2020002005-000	249
T2020002015-000	60	T2020002002-000	103	T2020002008-000	249
T2020002025-000	60	T2020002005-000	103	T2020002010-000	249
T2020002002-000	63	T2020002008-000	103	T2020002015-000	249
T2020002005-000	63	T2020002010-000	103	T2020002025-000	249
T2020002008-000	63	T2020002015-000	103	T2020002002-000	251
T2020002010-000	63	T2020002025-000	103	T2020002005-000	251
T2020002015-000	63	T2020002002-000	106	T2020002008-000	251
T2020002025-000	63	T2020002005-000	106	T2020002010-000	251
T2020002002-000	66	T2020002008-000	106	T2020002015-000	251
T2020002005-000	66	T2020002010-000	106	T2020002025-000	251
T2020002008-000	66	T2020002015-000	106	T2020002002-000	303

Part Number	Page	Part Number	Page	Part Number	Page
T2020002005-000	303	T2020011010-000	74	T2020011025-000	110
T2020002008-000	303	T2020011015-000	74	T2020011002-000	184
T2020002010-000	303	T2020011025-000	74	T2020011005-000	184
T2020002015-000	303	T2020011002-000	82	T2020011008-000	184
T2020002025-000	303	T2020011005-000	82	T2020011010-000	184
T2020011002-000	27	T2020011008-000	82	T2020011015-000	184
T2020011005-000	27	T2020011010-000	82	T2020011025-000	184
T2020011008-000	27	T2020011015-000	82	T2020011002-000	190
T2020011010-000	27	T2020011025-000	82	T2020011005-000	190
T2020011015-000	27	T2020011002-000	84	T2020011008-000	190
T2020011025-000	27	T2020011005-000	84	T2020011010-000	190
T2020011002-000	31	T2020011008-000	84	T2020011015-000	190
T2020011005-000	31	T2020011010-000	84	T2020011025-000	190
T2020011008-000	31	T2020011015-000	84	T2020011002-000	221
T2020011010-000	31	T2020011025-000	84	T2020011005-000	221
T2020011015-000	31	T2020011002-000	91	T2020011008-000	221
T2020011025-000	31	T2020011005-000	91	T2020011010-000	221
T2020011002-000	48	T2020011008-000	91	T2020011015-000	221
T2020011005-000	48	T2020011010-000	91	T2020011025-000	221
T2020011008-000	48	T2020011015-000	91	T2020011002-000	223
T2020011010-000	48	T2020011025-000	91	T2020011005-000	223
T2020011015-000	48	T2020011002-000	93	T2020011008-000	223
T2020011025-000	48	T2020011005-000	93	T2020011010-000	223
T2020011002-000	55	T2020011008-000	93	T2020011015-000	223
T2020011005-000	55	T2020011010-000	93	T2020011025-000	223
T2020011008-000	55	T2020011015-000	93	T2020011002-000	237
T2020011010-000	55	T2020011025-000	93	T2020011005-000	237
T2020011015-000	55	T2020011002-000	101	T2020011008-000	237
T2020011025-000	55	T2020011005-000	101	T2020011010-000	237
T2020011002-000	60	T2020011008-000	101	T2020011015-000	237
T2020011005-000	60	T2020011010-000	101	T2020011025-000	237
T2020011008-000	60	T2020011015-000	101	T2020011002-000	249
T2020011010-000	60	T2020011025-000	101	T2020011005-000	249
T2020011015-000	60	T2020011002-000	103	T2020011008-000	249
T2020011025-000	60	T2020011005-000	103	T2020011010-000	249
T2020011002-000	63	T2020011008-000	103	T2020011015-000	249
T2020011005-000	63	T2020011010-000	103	T2020011025-000	249
T2020011008-000	63	T2020011015-000	103	T2020011002-000	251
T2020011010-000	63	T2020011025-000	103	T2020011005-000	251
T2020011015-000	63	T2020011002-000	106	T2020011008-000	251
T2020011025-000	63	T2020011005-000	106	T2020011010-000	251
T2020011002-000	66	T2020011008-000	106	T2020011015-000	251
T2020011005-000	66	T2020011010-000	106	T2020011025-000	251
T2020011008-000	66	T2020011015-000	106	T2020011002-000	303
T2020011010-000	66	T2020011025-000	106	T2020011005-000	303
T2020011015-000	66	T2020011002-000	108	T2020011008-000	303
T2020011025-000	66	T2020011005-000	108	T2020011010-000	303
T2020011002-000	69	T2020011008-000	108	T2020011015-000	303
T2020011005-000	69	T2020011010-000	108	T2020011025-000	303
T2020011008-000	69	T2020011015-000	108	T2020012002-000	27
T2020011010-000	69	T2020011025-000	108	T2020012005-000	27
T2020011015-000	69	T2020011002-000	110	T2020012008-000	27
T2020011025-000	69	T2020011005-000	110	T2020012010-000	27
T2020011002-000	74	T2020011008-000	110	T2020012015-000	27
T2020011005-000	74	T2020011010-000	110	T2020012025-000	27
T2020011008-000	74	T2020011015-000	110	T2020012002-000	31

Part Number	Page	Part Number	Page	Part Number	Page
T2020012005-000	31	T2020012010-000	84	T2020012025-000	190
T2020012008-000	31	T2020012015-000	84	T2020012002-000	221
T2020012010-000	31	T2020012025-000	84	T2020012005-000	221
T2020012015-000	31	T2020012002-000	91	T2020012008-000	221
T2020012025-000	31	T2020012005-000	91	T2020012010-000	221
T2020012002-000	48	T2020012008-000	91	T2020012015-000	221
T2020012005-000	48	T2020012010-000	91	T2020012025-000	221
T2020012008-000	48	T2020012015-000	91	T2020012002-000	223
T2020012010-000	48	T2020012025-000	91	T2020012005-000	223
T2020012015-000	48	T2020012002-000	93	T2020012008-000	223
T2020012025-000	48	T2020012005-000	93	T2020012010-000	223
T2020012002-000	55	T2020012008-000	93	T2020012015-000	223
T2020012005-000	55	T2020012010-000	93	T2020012025-000	223
T2020012008-000	55	T2020012015-000	93	T2020012002-000	237
T2020012010-000	55	T2020012025-000	93	T2020012005-000	237
T2020012015-000	55	T2020012002-000	101	T2020012008-000	237
T2020012025-000	55	T2020012005-000	101	T2020012010-000	237
T2020012002-000	60	T2020012008-000	101	T2020012015-000	237
T2020012005-000	60	T2020012010-000	101	T2020012025-000	237
T2020012008-000	60	T2020012015-000	101	T2020012002-000	249
T2020012010-000	60	T2020012025-000	101	T2020012005-000	249
T2020012015-000	60	T2020012002-000	103	T2020012008-000	249
T2020012025-000	60	T2020012005-000	103	T2020012010-000	249
T2020012002-000	63	T2020012008-000	103	T2020012015-000	249
T2020012005-000	63	T2020012010-000	103	T2020012025-000	249
T2020012008-000	63	T2020012015-000	103	T2020012002-000	251
T2020012010-000	63	T2020012025-000	103	T2020012005-000	251
T2020012015-000	63	T2020012002-000	106	T2020012008-000	251
T2020012025-000	63	T2020012005-000	106	T2020012010-000	251
T2020012002-000	66	T2020012008-000	106	T2020012015-000	251
T2020012005-000	66	T2020012010-000	106	T2020012025-000	251
T2020012008-000	66	T2020012015-000	106	T2020012002-000	303
T2020012010-000	66	T2020012025-000	106	T2020012005-000	303
T2020012015-000	66	T2020012002-000	108	T2020012008-000	303
T2020012025-000	66	T2020012005-000	108	T2020012010-000	303
T2020012002-000	69	T2020012008-000	108	T2020012015-000	303
T2020012005-000	69	T2020012010-000	108	T2020012025-000	303
T2020012008-000	69	T2020012015-000	108	T2020072101-000	27
T2020012010-000	69	T2020012025-000	108	T2020072101-000	55
T2020012015-000	69	T2020012002-000	110	T2020072201-000	27
T2020012025-000	69	T2020012005-000	110	T2020072201-000	55
T2020012002-000	74	T2020012008-000	110	T2020082101-000	27
T2020012005-000	74	T2020012010-000	110	T2020082101-000	55
T2020012008-000	74	T2020012015-000	110	T2020082201-000	27
T2020012010-000	74	T2020012025-000	110	T2020082201-000	55
T2020012015-000	74	T2020012002-000	184	T2020152101-000	60
T2020012025-000	74	T2020012005-000	184	T2020152201-000	60
T2020012002-000	82	T2020012008-000	184	T2020252101-000	63
T2020012005-000	82	T2020012010-000	184	T2020252101-000	66
T2020012008-000	82	T2020012015-000	184	T2020252201-000	63
T2020012010-000	82	T2020012025-000	184	T2020252201-000	66
T2020012015-000	82	T2020012002-000	190	T2020402101-000	101
T2020012025-000	82	T2020012005-000	190	T2020402101-000	82
T2020012002-000	84	T2020012008-000	190	T2020402201-000	82
T2020012005-000	84	T2020012010-000	190	T2020402201-000	101
T2020012008-000	84	T2020012015-000	190	T2020502101-000	66

Part Number	Page	Part Number	Page	Part Number	Page
T2020502201-000	66	T2030001025-000	125	T2030001025-000	145
T2020642101-000	91	T2030001040-000	125	T2030001040-000	145
T2020642101-000	106	T2030001002-000	126	T2030001002-000	146
T2020642201-000	91	T2030001005-000	126	T2030001005-000	146
T2020642201-000	106	T2030001008-000	126	T2030001008-000	146
T2020802101-000	101	T2030001010-000	126	T2030001010-000	146
T2020802201-000	101	T2030001015-000	126	T2030001015-000	146
T2021282101-000	106	T2030001025-000	126	T2030001025-000	146
T2021282201-000	106	T2030001040-000	126	T2030001040-000	146
T2030001002-000	32	T2030001002-000	133	T2030001002-000	154
T2030001005-000	32	T2030001005-000	133	T2030001005-000	154
T2030001008-000	32	T2030001008-000	133	T2030001008-000	154
T2030001010-000	32	T2030001010-000	133	T2030001010-000	154
T2030001015-000	32	T2030001015-000	133	T2030001015-000	154
T2030001025-000	32	T2030001025-000	133	T2030001025-000	154
T2030001040-000	32	T2030001040-000	133	T2030001040-000	154
T2030001002-000	49	T2030001002-000	134	T2030001002-000	155
T2030001005-000	49	T2030001005-000	134	T2030001005-000	155
T2030001008-000	49	T2030001008-000	134	T2030001008-000	155
T2030001010-000	49	T2030001010-000	134	T2030001010-000	155
T2030001015-000	49	T2030001015-000	134	T2030001015-000	155
T2030001025-000	49	T2030001025-000	134	T2030001025-000	155
T2030001040-000	49	T2030001040-000	134	T2030001040-000	155
T2030001002-000	117	T2030001002-000	135	T2030001002-000	156
T2030001005-000	117	T2030001005-000	135	T2030001005-000	156
T2030001008-000	117	T2030001008-000	135	T2030001008-000	156
T2030001010-000	117	T2030001010-000	135	T2030001010-000	156
T2030001015-000	117	T2030001015-000	135	T2030001015-000	156
T2030001025-000	117	T2030001025-000	135	T2030001025-000	156
T2030001040-000	117	T2030001040-000	135	T2030001040-000	156
T2030001002-000	118	T2030001002-000	136	T2030001002-000	157
T2030001005-000	118	T2030001005-000	136	T2030001005-000	157
T2030001008-000	118	T2030001008-000	136	T2030001008-000	157
T2030001010-000	118	T2030001010-000	136	T2030001010-000	157
T2030001015-000	118	T2030001015-000	136	T2030001015-000	157
T2030001025-000	118	T2030001025-000	136	T2030001025-000	157
T2030001040-000	118	T2030001040-000	136	T2030001040-000	157
T2030001002-000	119	T2030001002-000	143	T2030001002-000	160
T2030001005-000	119	T2030001005-000	143	T2030001005-000	160
T2030001008-000	119	T2030001008-000	143	T2030001008-000	160
T2030001010-000	119	T2030001010-000	143	T2030001010-000	160
T2030001015-000	119	T2030001015-000	143	T2030001015-000	160
T2030001025-000	119	T2030001025-000	143	T2030001025-000	160
T2030001040-000	119	T2030001040-000	143	T2030001040-000	160
T2030001002-000	124	T2030001002-000	144	T2030001002-000	161
T2030001005-000	124	T2030001005-000	144	T2030001005-000	161
T2030001008-000	124	T2030001008-000	144	T2030001008-000	161
T2030001010-000	124	T2030001010-000	144	T2030001010-000	161
T2030001015-000	124	T2030001015-000	144	T2030001015-000	161
T2030001025-000	124	T2030001025-000	144	T2030001025-000	161
T2030001040-000	124	T2030001040-000	144	T2030001040-000	161
T2030001002-000	125	T2030001002-000	145	T2030001002-000	162
T2030001005-000	125	T2030001005-000	145	T2030001005-000	162
T2030001008-000	125	T2030001008-000	145	T2030001008-000	162
T2030001010-000	125	T2030001010-000	145	T2030001010-000	162
T2030001015-000	125	T2030001015-000	145	T2030001015-000	162

Part Number	Page	Part Number	Page	Part Number	Page
T2030001025-000	162	T2030001025-000	237	T2030002015-000	125
T2030001040-000	162	T2030001040-000	237	T2030002025-000	125
T2030001002-000	163	T2030001002-000	303	T2030002040-000	125
T2030001005-000	163	T2030001005-000	303	T2030002002-000	126
T2030001008-000	163	T2030001008-000	303	T2030002005-000	126
T2030001010-000	163	T2030001010-000	303	T2030002008-000	126
T2030001015-000	163	T2030001015-000	303	T2030002010-000	126
T2030001025-000	163	T2030001025-000	303	T2030002015-000	126
T2030001040-000	163	T2030001040-000	303	T2030002025-000	126
T2030001002-000	165	T2030002000-000	305	T2030002040-000	126
T2030001005-000	165	T2030002002-000	32	T2030002002-000	133
T2030001008-000	165	T2030002005-000	32	T2030002005-000	133
T2030001010-000	165	T2030002008-000	32	T2030002008-000	133
T2030001015-000	165	T2030002010-000	32	T2030002010-000	133
T2030001025-000	165	T2030002015-000	32	T2030002015-000	133
T2030001040-000	165	T2030002025-000	32	T2030002025-000	133
T2030001002-000	183	T2030002040-000	32	T2030002040-000	133
T2030001005-000	183	T2030002002-000	49	T2030002002-000	134
T2030001008-000	183	T2030002005-000	49	T2030002005-000	134
T2030001010-000	183	T2030002008-000	49	T2030002008-000	134
T2030001015-000	183	T2030002010-000	49	T2030002010-000	134
T2030001025-000	183	T2030002015-000	49	T2030002015-000	134
T2030001040-000	183	T2030002025-000	49	T2030002025-000	134
T2030001002-000	191	T2030002040-000	49	T2030002040-000	134
T2030001005-000	191	T2030002002-000	117	T2030002002-000	135
T2030001008-000	191	T2030002005-000	117	T2030002005-000	135
T2030001010-000	191	T2030002008-000	117	T2030002008-000	135
T2030001015-000	191	T2030002010-000	117	T2030002010-000	135
T2030001025-000	191	T2030002015-000	117	T2030002015-000	135
T2030001040-000	191	T2030002025-000	117	T2030002025-000	135
T2030001002-000	217	T2030002040-000	117	T2030002040-000	135
T2030001005-000	217	T2030002002-000	118	T2030002002-000	136
T2030001008-000	217	T2030002005-000	118	T2030002005-000	136
T2030001010-000	217	T2030002008-000	118	T2030002008-000	136
T2030001015-000	217	T2030002010-000	118	T2030002010-000	136
T2030001025-000	217	T2030002015-000	118	T2030002015-000	136
T2030001040-000	217	T2030002025-000	118	T2030002025-000	136
T2030001002-000	219	T2030002040-000	118	T2030002040-000	136
T2030001005-000	219	T2030002002-000	119	T2030002002-000	143
T2030001008-000	219	T2030002005-000	119	T2030002005-000	143
T2030001010-000	219	T2030002008-000	119	T2030002008-000	143
T2030001015-000	219	T2030002010-000	119	T2030002010-000	143
T2030001025-000	219	T2030002015-000	119	T2030002015-000	143
T2030001040-000	219	T2030002025-000	119	T2030002025-000	143
T2030001002-000	225	T2030002040-000	119	T2030002040-000	143
T2030001005-000	225	T2030002002-000	124	T2030002002-000	144
T2030001008-000	225	T2030002005-000	124	T2030002005-000	144
T2030001010-000	225	T2030002008-000	124	T2030002008-000	144
T2030001015-000	225	T2030002010-000	124	T2030002010-000	144
T2030001025-000	225	T2030002015-000	124	T2030002015-000	144
T2030001040-000	225	T2030002025-000	124	T2030002025-000	144
T2030001002-000	237	T2030002040-000	124	T2030002040-000	144
T2030001005-000	237	T2030002002-000	125	T2030002002-000	145
T2030001008-000	237	T2030002005-000	125	T2030002005-000	145
T2030001010-000	237	T2030002008-000	125	T2030002008-000	145
T2030001015-000	237	T2030002010-000	125	T2030002010-000	145

Part Number	Page	Part Number	Page	Part Number	Page
T2030002015-000	145	T2030002015-000	162	T2030002015-000	237
T2030002025-000	145	T2030002025-000	162	T2030002025-000	237
T2030002040-000	145	T2030002040-000	162	T2030002040-000	237
T2030002002-000	146	T2030002002-000	163	T2030002002-000	303
T2030002005-000	146	T2030002005-000	163	T2030002005-000	303
T2030002008-000	146	T2030002008-000	163	T2030002008-000	303
T2030002010-000	146	T2030002010-000	163	T2030002010-000	303
T2030002015-000	146	T2030002015-000	163	T2030002015-000	303
T2030002025-000	146	T2030002025-000	163	T2030002025-000	303
T2030002040-000	146	T2030002040-000	163	T2030002040-000	303
T2030002002-000	154	T2030002002-000	165	T2030011002-000	32
T2030002005-000	154	T2030002005-000	165	T2030011005-000	32
T2030002008-000	154	T2030002008-000	165	T2030011008-000	32
T2030002010-000	154	T2030002010-000	165	T2030011010-000	32
T2030002015-000	154	T2030002015-000	165	T2030011015-000	32
T2030002025-000	154	T2030002025-000	165	T2030011025-000	32
T2030002040-000	154	T2030002040-000	165	T2030011040-000	32
T2030002002-000	155	T2030002002-000	183	T2030011002-000	49
T2030002005-000	155	T2030002005-000	183	T2030011005-000	49
T2030002008-000	155	T2030002008-000	183	T2030011008-000	49
T2030002010-000	155	T2030002010-000	183	T2030011010-000	49
T2030002015-000	155	T2030002015-000	183	T2030011015-000	49
T2030002025-000	155	T2030002025-000	183	T2030011025-000	49
T2030002040-000	155	T2030002040-000	183	T2030011040-000	49
T2030002002-000	156	T2030002002-000	191	T2030011002-000	117
T2030002005-000	156	T2030002005-000	191	T2030011005-000	117
T2030002008-000	156	T2030002008-000	191	T2030011008-000	117
T2030002010-000	156	T2030002010-000	191	T2030011010-000	117
T2030002015-000	156	T2030002015-000	191	T2030011015-000	117
T2030002025-000	156	T2030002025-000	191	T2030011025-000	117
T2030002040-000	156	T2030002040-000	191	T2030011040-000	117
T2030002002-000	157	T2030002002-000	217	T2030011002-000	118
T2030002005-000	157	T2030002005-000	217	T2030011005-000	118
T2030002008-000	157	T2030002008-000	217	T2030011008-000	118
T2030002010-000	157	T2030002010-000	217	T2030011010-000	118
T2030002015-000	157	T2030002015-000	217	T2030011015-000	118
T2030002025-000	157	T2030002025-000	217	T2030011025-000	118
T2030002040-000	157	T2030002040-000	217	T2030011040-000	118
T2030002002-000	160	T2030002002-000	219	T2030011002-000	119
T2030002005-000	160	T2030002005-000	219	T2030011005-000	119
T2030002008-000	160	T2030002008-000	219	T2030011008-000	119
T2030002010-000	160	T2030002010-000	219	T2030011010-000	119
T2030002015-000	160	T2030002015-000	219	T2030011015-000	119
T2030002025-000	160	T2030002025-000	219	T2030011025-000	119
T2030002040-000	160	T2030002040-000	219	T2030011040-000	119
T2030002002-000	161	T2030002002-000	225	T2030011002-000	124
T2030002005-000	161	T2030002005-000	225	T2030011005-000	124
T2030002008-000	161	T2030002008-000	225	T2030011008-000	124
T2030002010-000	161	T2030002010-000	225	T2030011010-000	124
T2030002015-000	161	T2030002015-000	225	T2030011015-000	124
T2030002025-000	161	T2030002025-000	225	T2030011025-000	124
T2030002040-000	161	T2030002040-000	225	T2030011040-000	124
T2030002002-000	162	T2030002002-000	237	T2030011002-000	125
T2030002005-000	162	T2030002005-000	237	T2030011005-000	125
T2030002008-000	162	T2030002008-000	237	T2030011008-000	125
T2030002010-000	162	T2030002010-000	237	T2030011010-000	125

Part Number	Page	Part Number	Page	Part Number	Page
T2030011015-000	125	T2030011015-000	145	T2030011015-000	162
T2030011025-000	125	T2030011025-000	145	T2030011025-000	162
T2030011040-000	125	T2030011040-000	145	T2030011040-000	162
T2030011002-000	126	T2030011002-000	146	T2030011002-000	163
T2030011005-000	126	T2030011005-000	146	T2030011005-000	163
T2030011008-000	126	T2030011008-000	146	T2030011008-000	163
T2030011010-000	126	T2030011010-000	146	T2030011010-000	163
T2030011015-000	126	T2030011015-000	146	T2030011015-000	163
T2030011025-000	126	T2030011025-000	146	T2030011025-000	163
T2030011040-000	126	T2030011040-000	146	T2030011040-000	163
T2030011002-000	133	T2030011002-000	154	T2030011002-000	165
T2030011005-000	133	T2030011005-000	154	T2030011005-000	165
T2030011008-000	133	T2030011008-000	154	T2030011008-000	165
T2030011010-000	133	T2030011010-000	154	T2030011010-000	165
T2030011015-000	133	T2030011015-000	154	T2030011015-000	165
T2030011025-000	133	T2030011025-000	154	T2030011025-000	165
T2030011040-000	133	T2030011040-000	154	T2030011040-000	165
T2030011002-000	134	T2030011002-000	155	T2030011002-000	183
T2030011005-000	134	T2030011005-000	155	T2030011005-000	183
T2030011008-000	134	T2030011008-000	155	T2030011008-000	183
T2030011010-000	134	T2030011010-000	155	T2030011010-000	183
T2030011015-000	134	T2030011015-000	155	T2030011015-000	183
T2030011025-000	134	T2030011025-000	155	T2030011025-000	183
T2030011040-000	134	T2030011040-000	155	T2030011040-000	183
T2030011002-000	135	T2030011002-000	156	T2030011002-000	191
T2030011005-000	135	T2030011005-000	156	T2030011005-000	191
T2030011008-000	135	T2030011008-000	156	T2030011008-000	191
T2030011010-000	135	T2030011010-000	156	T2030011010-000	191
T2030011015-000	135	T2030011015-000	156	T2030011015-000	191
T2030011025-000	135	T2030011025-000	156	T2030011025-000	191
T2030011040-000	135	T2030011040-000	156	T2030011040-000	191
T2030011002-000	136	T2030011002-000	157	T2030011002-000	217
T2030011005-000	136	T2030011005-000	157	T2030011005-000	217
T2030011008-000	136	T2030011008-000	157	T2030011008-000	217
T2030011010-000	136	T2030011010-000	157	T2030011010-000	217
T2030011015-000	136	T2030011015-000	157	T2030011015-000	217
T2030011025-000	136	T2030011025-000	157	T2030011025-000	217
T2030011040-000	136	T2030011040-000	157	T2030011040-000	217
T2030011002-000	143	T2030011002-000	160	T2030011002-000	219
T2030011005-000	143	T2030011005-000	160	T2030011005-000	219
T2030011008-000	143	T2030011008-000	160	T2030011008-000	219
T2030011010-000	143	T2030011010-000	160	T2030011010-000	219
T2030011015-000	143	T2030011015-000	160	T2030011015-000	219
T2030011025-000	143	T2030011025-000	160	T2030011025-000	219
T2030011040-000	143	T2030011040-000	160	T2030011040-000	219
T2030011002-000	144	T2030011002-000	161	T2030011002-000	225
T2030011005-000	144	T2030011005-000	161	T2030011005-000	225
T2030011008-000	144	T2030011008-000	161	T2030011008-000	225
T2030011010-000	144	T2030011010-000	161	T2030011010-000	225
T2030011015-000	144	T2030011015-000	161	T2030011015-000	225
T2030011025-000	144	T2030011025-000	161	T2030011025-000	225
T2030011040-000	144	T2030011040-000	161	T2030011040-000	225
T2030011002-000	145	T2030011002-000	162	T2030011002-000	237
T2030011005-000	145	T2030011005-000	162	T2030011005-000	237
T2030011008-000	145	T2030011008-000	162	T2030011008-000	237
T2030011010-000	145	T2030011010-000	162	T2030011010-000	237

Part Number	Page	Part Number	Page	Part Number	Page
T2030011015-000	237	T2030012015-000	125	T2030012015-000	145
T2030011025-000	237	T2030012025-000	125	T2030012025-000	145
T2030011040-000	237	T2030012040-000	125	T2030012040-000	145
T2030011002-000	303	T2030012002-000	126	T2030012002-000	146
T2030011005-000	303	T2030012005-000	126	T2030012005-000	146
T2030011008-000	303	T2030012008-000	126	T2030012008-000	146
T2030011010-000	303	T2030012010-000	126	T2030012010-000	146
T2030011015-000	303	T2030012015-000	126	T2030012015-000	146
T2030011025-000	303	T2030012025-000	126	T2030012025-000	146
T2030011040-000	303	T2030012040-000	126	T2030012040-000	146
T2030012002-000	32	T2030012002-000	133	T2030012002-000	154
T2030012005-000	32	T2030012005-000	133	T2030012005-000	154
T2030012008-000	32	T2030012008-000	133	T2030012008-000	154
T2030012010-000	32	T2030012010-000	133	T2030012010-000	154
T2030012015-000	32	T2030012015-000	133	T2030012015-000	154
T2030012025-000	32	T2030012025-000	133	T2030012025-000	154
T2030012040-000	32	T2030012040-000	133	T2030012040-000	154
T2030012002-000	49	T2030012002-000	134	T2030012002-000	155
T2030012005-000	49	T2030012005-000	134	T2030012005-000	155
T2030012008-000	49	T2030012008-000	134	T2030012008-000	155
T2030012010-000	49	T2030012010-000	134	T2030012010-000	155
T2030012015-000	49	T2030012015-000	134	T2030012015-000	155
T2030012025-000	49	T2030012025-000	134	T2030012025-000	155
T2030012040-000	49	T2030012040-000	134	T2030012040-000	155
T2030012002-000	117	T2030012002-000	135	T2030012002-000	156
T2030012005-000	117	T2030012005-000	135	T2030012005-000	156
T2030012008-000	117	T2030012008-000	135	T2030012008-000	156
T2030012010-000	117	T2030012010-000	135	T2030012010-000	156
T2030012015-000	117	T2030012015-000	135	T2030012015-000	156
T2030012025-000	117	T2030012025-000	135	T2030012025-000	156
T2030012040-000	117	T2030012040-000	135	T2030012040-000	156
T2030012002-000	118	T2030012002-000	136	T2030012002-000	157
T2030012005-000	118	T2030012005-000	136	T2030012005-000	157
T2030012008-000	118	T2030012008-000	136	T2030012008-000	157
T2030012010-000	118	T2030012010-000	136	T2030012010-000	157
T2030012015-000	118	T2030012015-000	136	T2030012015-000	157
T2030012025-000	118	T2030012025-000	136	T2030012025-000	157
T2030012040-000	118	T2030012040-000	136	T2030012040-000	157
T2030012002-000	119	T2030012002-000	143	T2030012002-000	160
T2030012005-000	119	T2030012005-000	143	T2030012005-000	160
T2030012008-000	119	T2030012008-000	143	T2030012008-000	160
T2030012010-000	119	T2030012010-000	143	T2030012010-000	160
T2030012015-000	119	T2030012015-000	143	T2030012015-000	160
T2030012025-000	119	T2030012025-000	143	T2030012025-000	160
T2030012040-000	119	T2030012040-000	143	T2030012040-000	160
T2030012002-000	124	T2030012002-000	144	T2030012002-000	161
T2030012005-000	124	T2030012005-000	144	T2030012005-000	161
T2030012008-000	124	T2030012008-000	144	T2030012008-000	161
T2030012010-000	124	T2030012010-000	144	T2030012010-000	161
T2030012015-000	124	T2030012015-000	144	T2030012015-000	161
T2030012025-000	124	T2030012025-000	144	T2030012025-000	161
T2030012040-000	124	T2030012040-000	144	T2030012040-000	161
T2030012002-000	125	T2030012002-000	145	T2030012002-000	162
T2030012005-000	125	T2030012005-000	145	T2030012005-000	162
T2030012008-000	125	T2030012008-000	145	T2030012008-000	162
T2030012010-000	125	T2030012010-000	145	T2030012010-000	162

Part Number	Page	Part Number	Page	Part Number	Page
T2030012015-000	162	T2030012015-000	237	T2040002025-000	304
T2030012025-000	162	T2030012025-000	237	T2040002040-000	211
T2030012040-000	162	T2030012040-000	237	T2040002040-000	213
T2030012002-000	163	T2030012002-000	303	T2040002040-000	249
T2030012005-000	163	T2030012005-000	303	T2040002040-000	251
T2030012008-000	163	T2030012008-000	303	T2040002040-000	304
T2030012010-000	163	T2030012010-000	303	T2040002060-000	211
T2030012015-000	163	T2030012015-000	303	T2040002060-000	213
T2030012025-000	163	T2030012025-000	303	T2040002060-000	249
T2030012040-000	163	T2030012040-000	303	T2040002060-000	251
T2030012002-000	165	T2030162101-000	69	T2040002060-000	304
T2030012005-000	165	T2030162201-000	69	T2040002100-000	211
T2030012008-000	165	T2030422101-000	74	T2040002100-000	213
T2030012010-000	165	T2030422201-000	74	T2040002100-000	249
T2030012015-000	165	T2030722101-000	84	T2040002100-000	251
T2030012025-000	165	T2030722101-000	103	T2040002100-000	304
T2030012040-000	165	T2030722201-000	84	T2040062101-000	117
T2030012002-000	183	T2030722201-000	103	T2040062201-000	117
T2030012005-000	183	T2031082101-000	93	T2040063101-000	117
T2030012008-000	183	T2031082101-000	108	T2040063201-000	117
T2030012010-000	183	T2031082201-000	93	T2040064101-000	117
T2030012015-000	183	T2031082201-000	108	T2040064201-000	117
T2030012025-000	183	T2031442101-000	103	T2040065101-000	117
T2030012040-000	183	T2031442201-000	103	T2040065201-000	117
T2030012002-000	191	T2032162101-000	108	T2040102101-000	124
T2030012005-000	191	T2032162201-000	108	T2040102201-000	124
T2030012008-000	191	T2040000000-000	305	T2040103101-000	124
T2030012010-000	191	T2040000105-000	211	T2040103201-000	124
T2030012015-000	191	T2040000105-000	213	T2040104101-000	124
T2030012025-000	191	T2040000105-000	249	T2040104201-000	124
T2030012040-000	191	T2040000105-000	251	T2040105101-000	124
T2030012002-000	217	T2040000105-000	304	T2040105201-000	124
T2030012005-000	217	T20400001025-000	211	T2040162101-000	133
T2030012008-000	217	T20400001025-000	213	T2040162101-000	154
T2030012010-000	217	T20400001025-000	249	T2040162201-000	133
T2030012015-000	217	T20400001025-000	251	T2040162201-000	154
T2030012025-000	217	T20400001025-000	304	T2040163101-000	133
T2030012040-000	217	T20400001040-000	211	T2040163101-000	154
T2030012002-000	219	T20400001040-000	213	T2040163201-000	133
T2030012005-000	219	T20400001040-000	249	T2040163201-000	154
T2030012008-000	219	T20400001040-000	251	T2040164101-000	133
T2030012010-000	219	T20400001040-000	304	T2040164101-000	154
T2030012015-000	219	T20400001060-000	211	T2040164201-000	133
T2030012025-000	219	T20400001060-000	213	T2040164201-000	154
T2030012040-000	219	T20400001060-000	249	T2040165101-000	133
T2030012002-000	225	T20400001060-000	251	T2040165101-000	154
T2030012005-000	225	T20400001060-000	304	T2040165201-000	133
T2030012008-000	225	T20400002015-000	211	T2040165201-000	154
T2030012010-000	225	T20400002015-000	213	T2040242101-000	143
T2030012015-000	225	T20400002015-000	249	T2040242101-000	160
T2030012025-000	225	T20400002015-000	251	T2040242201-000	143
T2030012040-000	225	T20400002015-000	304	T2040242201-000	160
T2030012002-000	237	T20400002025-000	211	T2040243101-000	143
T2030012005-000	237	T20400002025-000	213	T2040243101-000	160
T2030012008-000	237	T20400002025-000	249	T2040243201-000	143
T2030012010-000	237	T20400002025-000	251	T2040243201-000	160

Part Number	Page	Part Number	Page	Part Number	Page
T2040244101-000	143	T2050462101-000	144	T2070012008-000	227
T2040244101-000	160	T2050462101-000	161	T2070012013-000	227
T2040244201-000	143	T2050462201-000	144	T2070012033-000	227
T2040244201-000	160	T2050462201-000	161	T2070064101-000	202
T2040245101-000	143	T2050482101-000	136	T2070064201-000	202
T2040245101-000	160	T2050482101-000	157	T2070104101-000	202
T2040245201-000	143	T2050482201-000	136	T2070104201-000	202
T2040245201-000	160	T2050482201-000	157	T2070164101-000	202
T2040322101-000	154	T2050642101-000	155	T2070164201-000	202
T2040322201-000	154	T2050642201-000	155	T2070244101-000	202
T2040323101-000	154	T2050643101-000	145	T2070244201-000	202
T2040323201-000	154	T2050643101-000	162	T2079104101-000	202
T2040324101-000	154	T2050643201-000	145	T2079104201-000	202
T2040324201-000	154	T2050643201-000	162	T2070001008-000	227
T2040325101-000	154	T2050722101-000	146	T2070001013-000	227
T2040325201-000	154	T2050722101-000	163	T2070001033-000	227
T2040482101-000	160	T2050722201-000	146	T2080052101-000	32
T2040482201-000	160	T2050722201-000	163	T2080052101-000	183
T2040483101-000	160	T2050802101-000	156	T2080052201-000	32
T2040483201-000	160	T2050802201-000	156	T2080052201-000	183
T2040484101-000	160	T2050922101-000	161	T2080062101-100	189
T2040484201-000	160	T2050922201-000	161	T2080062201-100	189
T2040485101-000	160	T2050962101-000	157	T2080072101-000	31
T2040485201-000	160	T2050962201-000	157	T2080072101-000	184
T2050001010-000	207	T2051283101-000	162	T2080072201-000	31
T2050001010-000	304	T2051283201-000	162	T2080072201-000	184
T2050001016-000	207	T2051442101-000	163	T2080122101-000	31
T2050001016-000	304	T2051442201-000	163	T2080122101-000	184
T2050001025-000	207	T2060001025-000	205	T2080122201-000	31
T2050001025-000	304	T2060001025-000	305	T2080122201-000	184
T2050001035-000	207	T2060001035-000	205	T2800152101-000	308
T2050001035-000	304	T2060001035-000	305	T2800152201-000	308
T2050002010-000	207	T2060001050-000	205	T2080172101-000	189
T2050002010-000	304	T2060001050-000	305	T2080172201-000	189
T2050002016-000	207	T2060001070-000	205	T2090002101-001	233
T2050002016-000	304	T2060001070-000	305	T2090002101-002	233
T2050002025-000	207	T2060002025-000	205	T2090002101-003	233
T2050002025-000	304	T2060002025-000	305	T2090002101-004	233
T2050002035-000	207	T2060002035-000	205	T2090002201-001	233
T2050002035-000	304	T2060002035-000	305	T2090002201-002	233
T2050102101-000	118	T2060002050-000	205	T2090002201-003	233
T2050102201-000	118	T2060002050-000	305	T2090002201-004	233
T2050182101-000	125	T2060002070-000	205	T2090012201-001	233
T2050182201-000	125	T2060002070-000	305	T2090012201-002	233
T2050202101-000	119	T2060062101-000	171	T2090012201-003	233
T2050202201-000	119	T2060062101-000	178	T2090012201-004	233
T2050322101-000	134	T2060062201-000	171	T2090062101-000	199
T2050322101-000	155	T2060062201-000	178	T2090062201-000	199
T2050322201-000	134	T2060122101-000	178	T2090102101-000	199
T2050322201-000	155	T2060122201-000	178	T2090102201-000	199
T2050323101-000	126	T2070002008-000	227	T2090162101-000	199
T2050323201-000	126	T2070002013-000	227	T2090162201-000	199
T2050402101-000	135	T2070002033-000	227	T2090242101-000	199
T2050402101-000	156	T2070011008-000	227	T2090242201-000	199
T2050402201-000	135	T2070011013-000	227	T2093362101-000	261
T2050402201-000	156	T2070011033-000	227	T2093362201-000	261

Part Number	Page	Part Number	Page	Part Number	Page
T2100032101-000	309	T2113000101-100	229	T3033070901-000	325
T2100032201-000	309	T2113000201-000	229	T3033091101-000	325
T2100042101-000	247	T2114000101-000	229	T3033111301-000	325
T2100042201-000	247	T2114000201-000	229	T3033111601-000	325
T2100062101-000	247	T2120142101-000	249	T3033131601-000	325
T2100062201-000	247	T2120142201-000	249	T3033132101-000	325
T2100063101-000	200	T2120422101-000	251	T3033162050-000	325
T2100122101-000	259	T2120422201-000	251	T3033162101-000	325
T2100122201-000	259	T2300033101-000	168	T3033202550-000	325
T2100322101-000	237	T2300033201-000	168	T3033212901-000	325
T2100322201-000	237	T2300063101-000	168	T3033253250-000	325
T2100063201-000	200	T2300063201-000	168	T3033293601-000	325
T2100103101-000	200	T2300103101-000	168	T3033324050-000	325
T2100103201-000	200	T2300103201-000	168	T3033364201-000	325
T2100163101-000	200	T24000001100-000	209	T3033405050-000	325
T2100163201-000	200	T24000001160-000	209	T3033506350-000	325
T2100243101-000	200	T24000001250-000	209	T3403121000-000	310
T2100243201-000	200	T24000002100-000	209	T3403121350-000	310
T2106062101-000	245	T24000002160-000	209	T3403122000-000	310
T2106062201-000	245	T24000002250-000	209	T3071090701-000	325
T2110052101-000	215	T2580011154-000	231	T307110701-000	325
T2110052201-000	215	T2580012154-000	231	T3071130901-000	325
T2111013101-000	205	T2580031154-000	231	T3071131101-000	325
T2111013201-000	205	T2580032154-000	231	T3071160901-000	325
T2111020101-000	209	T2580081154-000	231	T3071161101-000	325
T2111020201-000	209	T2580082154-000	231	T3071161250-000	325
T2111022301-000	233	T3100000001-000	48	T3071161301-000	325
T2111027101-000	231	T3100000001-000	49	T3071201250-000	325
T2111027101-001	231	T3100000001-000	110	T3071201650-000	325
T2111027101-002	231	T3100000001-000	165	T3071211101-000	325
T2111027201-000	231	T3100000001-000	190	T3071211301-000	325
T2111027201-001	231	T3100000001-000	191	T3071211601-000	325
T2111027201-002	231	T3100000001-000	302	T3071252050-000	325
T2111028101-000	207	T3100000002-000	49	T3071291601-000	325
T2111028201-000	207	T3100000002-000	165	T3071292101-000	325
T2111032101-000	211	T3100000002-000	191	T3071322050-000	325
T2111032201-000	211	T3100000003-000	48	T3071322550-000	325
T2111032301-000	233	T3100000003-000	110	T3071362101-000	325
T2111042101-000	213	T3100000003-000	190	T3071362901-000	325
T2111042201-000	213	T3100000003-000	302	T3071402550-000	325
T2111062101-000	217	T3100000009-000	48	T3071403250-000	325
T2111062201-000	217	T3100000009-000	49	T3071422901-000	325
T2111063101-000	217	T3100000009-000	110	T3071423601-000	325
T2111063201-000	217	T3100000009-000	165	T3071483601-000	325
T2111082101-000	219	T3100000009-000	190	T3071484201-000	325
T2111082201-000	219	T3100000009-000	191	T3071503250-000	325
T2111092101-000	229	T3100000009-000	302	T3071504050-000	325
T2111092201-000	229	T3100000010-000	302	T3071634050-000	325
T2111122101-000	221	T3100000012-000	302	T3071635050-000	325
T2111122201-000	221	T3100000013-000	302	T3100090001-000	318
T2111172101-000	223	T3100000015-000	302	T3100110101-000	318
T2111172201-000	223	T3100000016-000	302	T3100120002-000	318
T2111202101-000	225	T3100000017-000	302	T3100130001-000	318
T2111202201-000	225	T3100000018-000	302	T3100160001-000	318
T2111252101-000	227	T3100001001-000	302	T3100160002-000	318
T2111252201-000	227	T3110009902-000	232	T3100200002-000	318

Part Number	Page	Part Number	Page	Part Number	Page
T3100210001-000	318	T3105420101-000	320	T3135320121-000	319
T3100250002-000	318	T3105420101-000	328	T3135360101-000	319
T3100290001-000	318	T3105480101-000	320	T3135400121-000	319
T3100320002-000	318	T3105480101-000	328	T3135420101-000	319
T3100360001-000	318	T3105500021-000	328	T3135480101-000	319
T3100400002-000	318	T3105500121-000	320	T3135500121-000	319
T3100420001-000	318	T3105500121-000	328	T3135630121-000	319
T3100480001-000	318	T3105630021-000	328	T3161070001-000	324
T3100500002-000	318	T3105630121-000	320	T3161090001-000	324
T3100630002-000	318	T3111090101-000	317	T3161110001-000	324
T3101090101-000	317	T3111110101-000	317	T3161120050-000	324
T3101110101-000	317	T3111120102-000	317	T3161130001-000	324
T3101120102-000	317	T3111130101-000	317	T3161160001-000	324
T3101130101-000	317	T3111160101-000	317	T3161160050-000	324
T3101160101-000	317	T3111160102-000	317	T3161200050-000	324
T3101160102-000	317	T3111200102-000	317	T3161210001-000	324
T3101200102-000	317	T3111210101-000	317	T3161250050-000	324
T3101210101-000	317	T3111250102-000	317	T3161290001-000	324
T3101250102-000	317	T3111290101-000	317	T3161320050-000	324
T3101290101-000	317	T3111320102-000	317	T3161360001-000	324
T3101320102-000	317	T3111360101-000	317	T3161400050-000	324
T3101360101-000	317	T3111400102-000	317	T3161420001-000	324
T3101400102-000	317	T3111420101-000	317	T3161480001-000	324
T3101420101-000	317	T3111480101-000	317	T3161500050-000	324
T3101480101-000	317	T3111500102-000	317	T3161630050-000	324
T3101500102-000	317	T3111630102-000	317	T3165070101-000	322
T3101630102-000	317	T3115070101-000	319	T3165070201-000	323
T3105070101-000	320	T3115090101-000	319	T3165090101-000	322
T3105070101-000	328	T3115110101-000	319	T3165090201-000	323
T3105090101-000	320	T3115120121-000	319	T3165110101-000	322
T3105090101-000	328	T3115130101-000	319	T3165110201-000	323
T3105110101-000	320	T3115160101-000	319	T3165120111-000	322
T3105110101-000	328	T3115160121-000	319	T3165120211-000	323
T3105120021-000	328	T3115200121-000	319	T3165130101-000	322
T3105120121-000	320	T3115210101-000	319	T3165130201-000	323
T3105130101-000	320	T3115250121-000	319	T3165160101-000	322
T3105160021-000	328	T3115290101-000	319	T3165160111-000	322
T3105160101-000	320	T3115320121-000	319	T3165160201-000	323
T3105160101-000	328	T3115360101-000	319	T3165160211-000	323
T3105160121-000	320	T3115400121-000	319	T3165200111-000	322
T3105200021-000	328	T3115420101-000	319	T3165200211-000	323
T3105200121-000	320	T3115480101-000	319	T3165210101-000	322
T3105200121-000	328	T3115500121-000	319	T3165210201-000	323
T3105210101-000	320	T3115630121-000	319	T3165250111-000	322
T3105210101-000	328	T3125160111-000	329	T3165250211-000	323
T3105250021-000	328	T3125210111-000	329	T3165290101-000	322
T3105250121-000	320	T3125320001-000	329	T3165290201-000	323
T3105250121-000	328	T3135090101-000	319	T3165320111-000	322
T3105290101-000	320	T3135110101-000	319	T3165320211-000	323
T3105290101-000	328	T3135130101-000	319	T3165360101-000	322
T3105320021-000	328	T3135160101-000	319	T3165360201-000	323
T3105320121-000	320	T3135160121-000	319	T3165400111-000	322
T3105360101-000	320	T3135200121-000	319	T3165400211-000	323
T3105360101-000	328	T3135210101-000	319	T3165420101-000	322
T3105400021-000	328	T3135250121-000	319	T3165420201-000	323
T3105400121-000	320	T3135290101-000	319	T3165480101-000	322

Part Number	Page	Part Number	Page	Part Number	Page
T3165480201-000	323	T3201630102-000	316	T3229160102-000	314
T3165500111-000	322	T3209070160-000	313	T3229160201-000	314
T3165500211-000	323	T3209070161-000	313	T3229200102-000	314
T3165630111-000	322	T3209090160-000	313	T3229200202-000	314
T3165630211-000	323	T3209090161-000	313	T3229210101-000	314
T3166070101-000	322	T3209110160-000	313	T3229210201-000	314
T3166090101-000	322	T3209110161-000	313	T3229210301-000	314
T3166110101-000	322	T3209120102-000	313	T3229210401-000	314
T3166120111-000	322	T3209120112-000	313	T3229250102-000	314
T3166130101-000	322	T3209130160-000	313	T3229250202-000	314
T3166160101-000	322	T3209130161-000	313	T3229250302-000	314
T3166160111-000	322	T3209160102-000	313	T3229250402-000	314
T3166200111-000	322	T3209160112-000	313	T3229290101-000	314
T3166210101-000	322	T3209160160-000	313	T3229290201-000	314
T3166250111-000	322	T3209160161-000	313	T3229290301-000	314
T3166290101-000	322	T3209200102-000	313	T3229320102-000	314
T3166320111-000	322	T3209200112-000	313	T3229320202-000	314
T3166360101-000	322	T3209210160-000	313	T3229320302-000	314
T3166400111-000	322	T3209210161-000	313	T3229360101-000	314
T3166420101-000	322	T3209250102-000	313	T3229360201-000	314
T3166480101-000	322	T3209250112-000	313	T3229400102-000	314
T3166500111-000	322	T3209290160-000	313	T3229400202-000	314
T3166630111-000	322	T3209290161-000	313	T3229420101-000	314
T3169090101-000	321	T3209320102-000	313	T3229420201-000	314
T3169110101-000	321	T3209320112-000	313	T3229480101-000	314
T3169120121-000	321	T3209360160-000	313	T3229480201-000	314
T3169130101-000	321	T3209360161-000	313	T3229500102-000	314
T3169160101-000	321	T3209400102-000	313	T3229500202-000	314
T3169160111-000	321	T3209400112-000	313	T3229630102-000	314
T3169200111-000	321	T3209420160-000	313	T3229630202-000	314
T3169210101-000	321	T3209420161-000	313	T3262070001-000	324
T3169250111-000	321	T3209480160-000	313	T3262090001-000	324
T3169290101-000	321	T3209480161-000	313	T3262110001-000	324
T3169320111-000	321	T3209500102-000	313	T3262120050-000	324
T3169360101-000	321	T3209500112-000	313	T3262130001-000	324
T3169400111-000	321	T3209630102-000	313	T3262160001-000	324
T3169420101-000	321	T3209630112-000	313	T3262160050-000	324
T3169480101-000	321	T3211090101-000	316	T3262200050-000	324
T3169500111-000	321	T3211110101-000	316	T3262210001-000	324
T3169630111-000	321	T3211120102-000	316	T3262250050-000	324
T3201090101-000	316	T3211130101-000	316	T3262290001-000	324
T3201110101-000	316	T3211160101-000	316	T3262320050-000	324
T3201120102-000	316	T3211160102-000	316	T3262360001-000	324
T3201130101-000	316	T3211200102-000	316	T3262400050-000	324
T3201160101-000	316	T3211210101-000	316	T3262420001-000	324
T3201160102-000	316	T3211250102-000	316	T3262480001-000	324
T3201200102-000	316	T3211290101-000	316	T3262500050-000	324
T3201210101-000	316	T3211320102-000	316	T3262630050-000	324
T3201250102-000	316	T3211360101-000	316	T3300120002-000	318
T3201290101-000	316	T3211400102-000	316	T3300160002-000	318
T3201320102-000	316	T3211420101-000	316	T3300200002-000	318
T3201360101-000	316	T3211480101-000	316	T3300250002-000	318
T3201400102-000	316	T3211500102-000	316	T3300320102-000	318
T3201420101-000	316	T3211630102-000	316	T3300400002-000	318
T3201480101-000	316	T3229130101-000	314	T3300500002-000	318
T3201500102-000	316	T3229160101-000	314	T3300630002-000	318

Part Number	Page	Part Number	Page	Part Number	Page
T3310010000-000	326	T3510292501-000	320	T3609200122-000	312
T3310013000-000	326	T3510290124-000	320	T3609210101-000	312
T3310015000-000	326	T3510322002-000	320	T3609210111-000	312
T3310022000-000	326	T3510320112-000	320	T3609250102-000	312
T3310028000-000	326	T3510363201-000	320	T3609250112-000	312
T3310034000-000	326	T3510403202-000	320	T3609290101-000	312
T3310040000-000	326	T3510420114-000	320	T3609290111-000	312
T3310054000-000	326	T3510480114-000	320	T3609320102-000	312
T3310079000-000	326	T3510500102-000	320	T3609320112-000	312
T3310105000-000	326	T3510635102-000	320	T3609360101-000	312
T3333111102-000	329	T3511070701-000	321	T3609360111-000	312
T3333111112-000	328	T3511091001-000	321	T3609400102-000	312
T3333121201-000	329	T3511100602-000	321	T3609400112-000	312
T3333121211-000	328	T3511111201-000	321	T3609420101-000	312
T3333131302-000	329	T3511120702-000	321	T3609420111-000	312
T3333131312-000	328	T3511120702-001	321	T3609480101-000	312
T3333161601-000	329	T3511131401-000	321	T3609480111-000	312
T3333161602-000	329	T3511131401-001	321	T3609500102-000	312
T3333161611-000	328	T3511161002-000	321	T3609500112-000	312
T3333161612-000	328	T3511161202-000	321	T3609630102-000	312
T3333202001-000	329	T3511161701-000	321	T3609630112-000	312
T3333202011-000	328	T3511201402-000	321	T3629070101-000	327
T3333212102-000	329	T3511201702-000	321	T3629070111-000	327
T3333212112-000	328	T3511212301-000	321	T3629090101-000	327
T3333252501-000	329	T3511251702-000	321	T3629090111-000	327
T3333252511-000	328	T3511252002-000	321	T3629110101-000	327
T3333292902-000	329	T3511252302-000	321	T3629110111-000	327
T3333292912-000	328	T3511292901-000	321	T3629120102-000	327
T3333323201-000	329	T3511322302-000	321	T3629120112-000	327
T3333323211-000	328	T3511322602-000	321	T3629130101-000	327
T3333363602-000	329	T3511322902-000	321	T3629130111-000	327
T3333363612-000	328	T3511363601-000	321	T3629160101-000	327
T3333404001-000	329	T3511402802-000	321	T3629160102-000	327
T3333404011-000	328	T3511403602-000	321	T3629160111-000	327
T3333505001-000	329	T3511424301-000	321	T3629160112-000	327
T3333505011-000	328	T3511484801-000	321	T3629200102-000	327
T3333636301-000	329	T3511503502-000	321	T3629200112-000	327
T3333636311-000	328	T3511504802-000	321	T3629210101-000	327
T3510111201-000	320	T3511634802-000	321	T3629210111-000	327
T3510120124-000	320	T3609070101-000	312	T3629250102-000	327
T3510130114-000	320	T3609070111-000	312	T3629250112-000	327
T3510130124-000	320	T3609090101-000	312	T3629290101-000	327
T3510130134-000	320	T3609090111-000	312	T3629290111-000	327
T3510160102-000	320	T3609110101-000	312	T3629320102-000	327
T3510161002-000	320	T3609110111-000	312	T3629320112-000	327
T3510160114-000	320	T3609120102-000	312	T3629360101-000	327
T3510160122-000	320	T3609120112-000	312	T3629360111-000	327
T3510160124-000	320	T3609130101-000	312	T3629400102-000	327
T3510161501-000	320	T3609130111-000	312	T3629400112-000	327
T3510201202-000	320	T3609160101-000	312	T3629420101-000	327
T3510201602-000	320	T3609160102-000	312	T3629420111-000	327
T3510201502-000	320	T3609160111-000	312	T3629480101-000	327
T3510212001-000	320	T3609160112-000	312	T3629480111-000	327
T3510210124-000	320	T3609160122-000	312	T3629500102-000	327
T3510252002-000	320	T3609200102-000	312	T3629500112-000	327
T3510251502-000	320	T3609200112-000	312	T3629630102-000	327

Part Number	Page	Part Number	Page	Part Number	Page
T3629630112-000	327	T3709360111-000	315	T3920153201-000	326
T3707090101-000	315	T3709360121-000	315	T3930010600-000	326
T3706110113-000	315	T3709400102-000	315	T3930030801-000	326
T3707130101-000	315	T3709400112-000	315	T3930041301-000	326
T3707160101-000	315	T3709400122-000	315	T3930051100-000	326
T3609160103-000	315	T3729130101-000	314	T3930101700-000	326
T3707160113-000	315	T3729160101-000	314	T3930102001-000	326
T3706200103-000	315	T3729160102-000	314	T3930153201-000	326
T3707200113-Z00	315	T3729160201-000	314	T3105130101-000	328
T3707210101-000	315	T3729200102-000	314	T3100000002-000	302
T3609250103-000	315	T3729200202-000	314		
T3707250113-000	315	T3729210101-000	314		
T3707290101-000	315	T3729210201-000	314		
T3609320103-000	315	T3729210301-000	314		
T3707320113-000	315	T3729210401-000	314		
T3707360101-000	315	T3729250102-000	314		
T3706400103-000	315	T3729250202-000	314		
T3707400113-000	315	T3729250302-000	314		
T3707420101-000	315	T3729250402-000	314		
T3707480101-000	315	T3729290101-000	314		
T3707500103-000	315	T3729290201-000	314		
T3707500113-000	315	T3729290301-000	314		
T3707630103-000	315	T3729320102-000	314		
T3707630113-000	315	T3729320202-000	314		
T3709090101-000	315	T3729320302-000	314		
T3709090111-000	315	T3729360101-000	314		
T3709090121-000	315	T3729360201-000	314		
T3709110101-000	315	T3729400102-000	314		
T3709110111-000	315	T3729400202-000	314		
T3709110121-000	315	T3729420101-000	314		
T3709130101-000	315	T3729420201-000	314		
T3709130111-000	315	T3729480101-000	314		
T3709130121-000	315	T3729480201-000	314		
T3709160101-000	315	T3729500102-000	314		
T3709160102-000	315	T3729500202-000	314		
T3709160111-000	315	T3729630102-000	314		
T3709160112-000	315	T3729630202-000	314		
T3709160121-000	315	T3265090901-000	327		
T3709160122-000	315	T3265111101-000	327		
T3709200102-000	315	T3265131301-000	327		
T3709200112-000	315	T3265160101-000	327		
T3709200122-000	315	T3265161611-000	327		
T3709210101-000	315	T3265202011-000	327		
T3709210111-000	315	T3265212101-000	327		
T3709210121-000	315	T3265252511-000	327		
T3709250102-000	315	T3265252511-000	327		
T3709250112-000	315	T3265292901-000	327		
T3709250122-000	315	T3265404011-000	327		
T3709250132-000	315	T3910020601-000	326		
T3709290101-000	315	T3910030801-000	326		
T3709290111-000	315	T3910041301-000	326		
T3709290121-000	315	T3910102001-000	326		
T3709320102-000	315	T3910153201-000	326		
T3709320112-000	315	T3920030801-000	326		
T3709320122-000	315	T3920041301-000	326		
T3709360101-000	315	T3920102001-000	326		

[illegible]

Notes

[illegible]

[illegible]

te.com

TE Connectivity, TE Connectivity (logo) and Every Connection Counts are trademarks. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

While TE has made every reasonable effort to ensure the accuracy of the information in this brochure, TE does not guarantee that it is error-free, nor does TE make any other representation, warranty, or guarantee that the information is accurate, correct, reliable, or current. TE reserves the right to make any adjustments to the information contained herein at any time without notice. TE expressly disclaims all implied warranties regarding the information contained herein, including, but not limited to, any implied warranties of merchantability or fitness for a particular purpose. The dimensions in this catalog are for reference purposes only and are subject to change without notice. Specifications are subject to change without notice. Consult TE for the latest dimensions and design specifications.

© 2017 TE Connectivity Ltd. family of companies All Rights Reserved.

1-1773869-8 05/2017 Original: WR

CATALOG

TE Connectivity Automation & Control

Pfnorstr. 1
D-64293 Darmstadt
Germany
+49 6151 607 1999

te.com

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



Тел: +7 (812) 336 43 04 (многоканальный)

Email: org@lifeelectronics.ru

www.lifeelectronics.ru