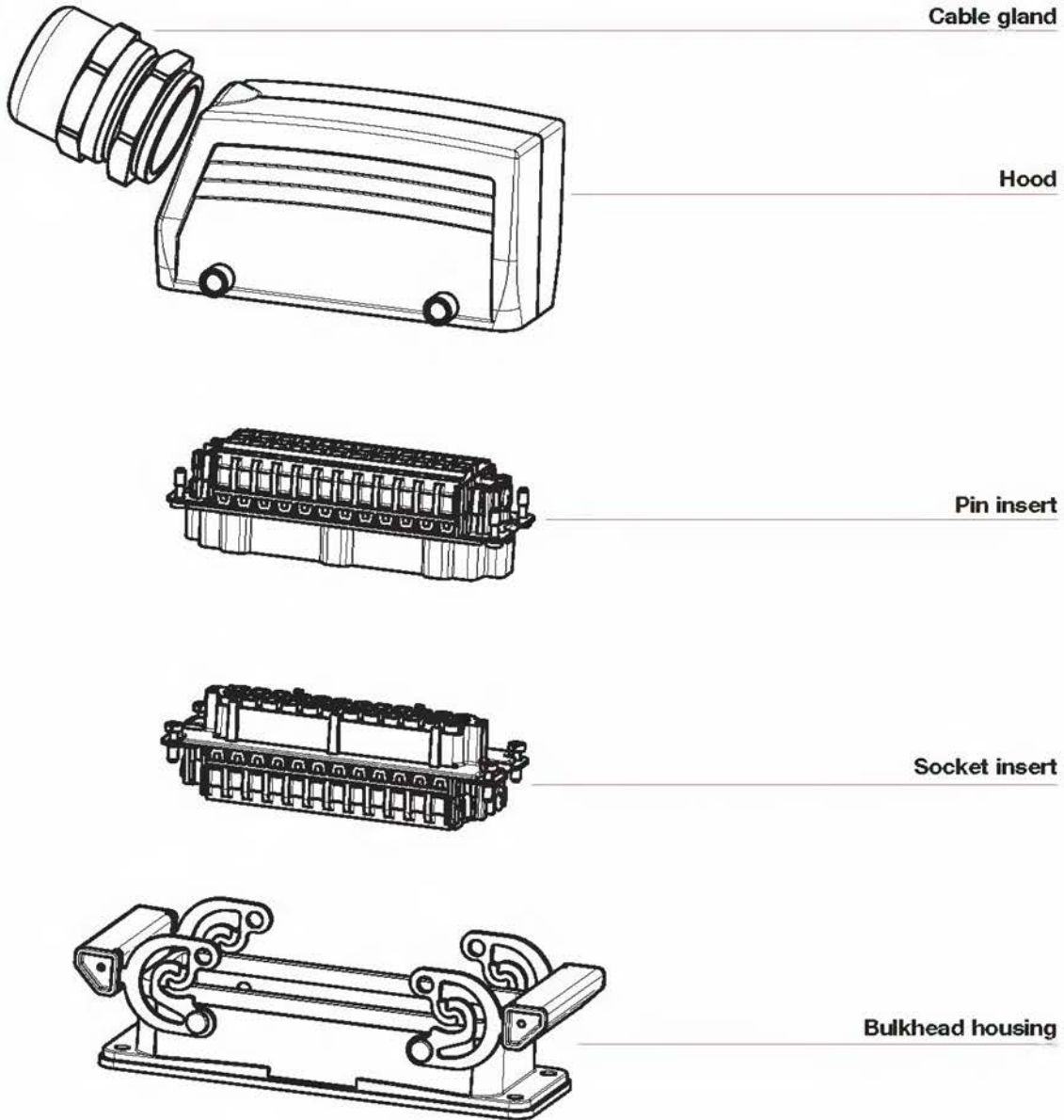


Overview HDC

Aid for selection	Construction of heavy-duty connectors – fixed pole	A.2	
	Overview of size 1 – fixed pole	A.3	
	Overview of sizes 2, 5, 7, 9 – fixed pole	A.4	
	Overview of sizes 3, 4, 6, 8, 10, 12 – fixed pole	A.5	
	Construction of heavy-duty connectors – modular	A.6	
	Overview of sizes 3, 4, 6, 8, 10, 12 – modular	A.7	
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	RockStar® Housing types	A.10	
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	Part codes for inserts and covers	A.12	
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	Technical data	Connection systems	A.14
		Electrical data	A.16
Chemical resistance		A.20	
Tightening torques and screwing tools		A.21	
Safety information / standards		A.22	

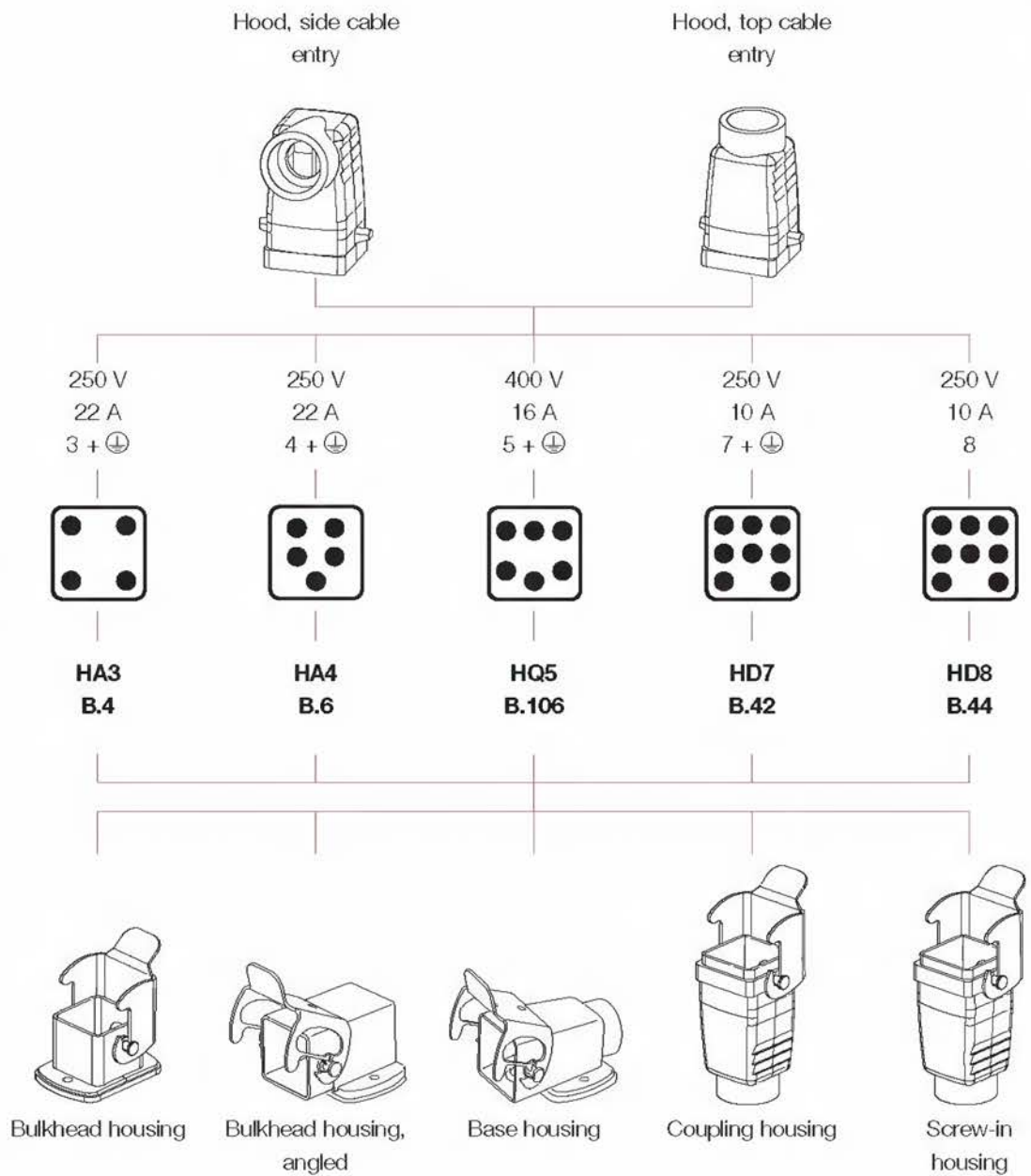
Construction of heavy-duty connectors – fixed pole



Overview of size 1 – fixed pole

Size

1



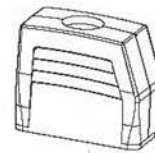
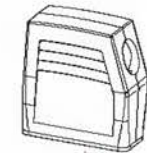
Overview of sizes 2, 5, 7, 9 – fixed pole

Size

Hood, side cable entry

Hood, top cable entry

2



250 V
22 A
10 + ⊕
HA10
B.8



250 V
10 A
15 + ⊕
HD15
B.46

5

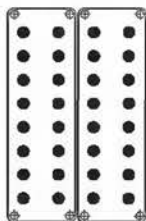


250 V
22 A
16 + ⊕
HA16
B.10

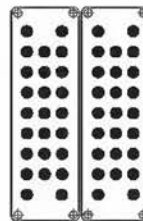


250 V
10 A
25 + ⊕
HD25
B.52

7

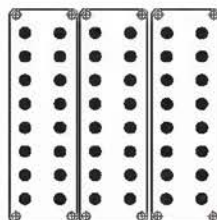


250 V
16 A
32 + ⊕
HA32
B.12

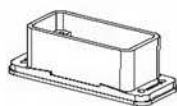


250 V
10 A
60 + ⊕
HD50
B.56

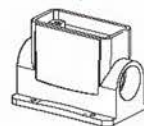
9



250 V
16 A
48 + ⊕
HA48
B.14



Bulkhead housing



Base housing



Coupling housing

Overview of sizes 3, 4, 6, 8, 10, 12 – fixed pole

Size

Hood, side cable entry

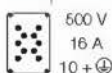
Hood, top cable entry

3



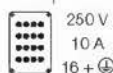
500 V
24 A
6 + ⊕

HE6
B.18



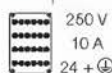
500 V
16 A
10 + ⊕

HEE10
B.32



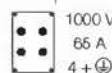
250 V
10 A
16 + ⊕

HD16
B.48



250 V
10 A
24 + ⊕

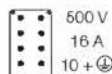
HDD24
B.66



1000 V
65 A
4 + ⊕

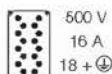
S4
B.96

4



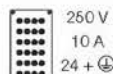
500 V
16 A
10 + ⊕

HE10
B.20



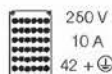
500 V
16 A
18 + ⊕

HEE18
B.34



250 V
10 A
24 + ⊕

HD24
B.50



250 V
10 A
42 + ⊕

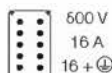
HDD42
B.68



830 V
24 A
3+2+⊕

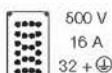
HVE3
B.80

6



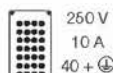
500 V
16 A
16 + ⊕

HE16
B.22



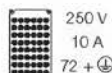
500 V
16 A
32 + ⊕

HEE32
B.36



250 V
10 A
40 + ⊕

HD40
B.54



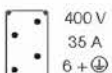
250 V
10 A
72 + ⊕

HDD72
B.70



830 V
23 A
6+2+⊕

HVE6
B.82



400 V
35 A
6 + ⊕

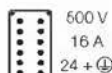
HSB6
B.88



630 V
80 A
4+0+⊕

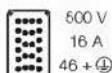
S4/0
B.98

8



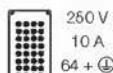
500 V
16 A
24 + ⊕

HE24
B.24



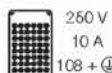
500 V
16 A
46 + ⊕

HEE46
B.38



250 V
10 A
64 + ⊕

HD64
B.58



250 V
10 A
108 + ⊕

HDD108
B.72



830 V
23 A
10+2+⊕

HVE10
B.84



630 V
100 A
6+6+⊕

S6/6
B.102



630 V
48 A
6+12+⊕

S6/12
B.100

10



500 V
16 A
32 + ⊕

HE32
B.26



250 V
10 A
80 + ⊕

HD80
B.60



250 V
10 A
144 + ⊕

HDD144
B.74



400 V
35 A
12 + ⊕

HSB12
B.90

12



500 V
16 A
48 + ⊕

HE48
B.28



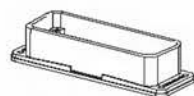
250 V
10 A
128 + ⊕

HD128
B.62

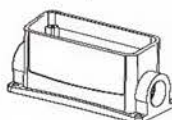


250 V
10 A
216 + ⊕

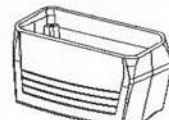
HDD216
B.76



Bulkhead housing

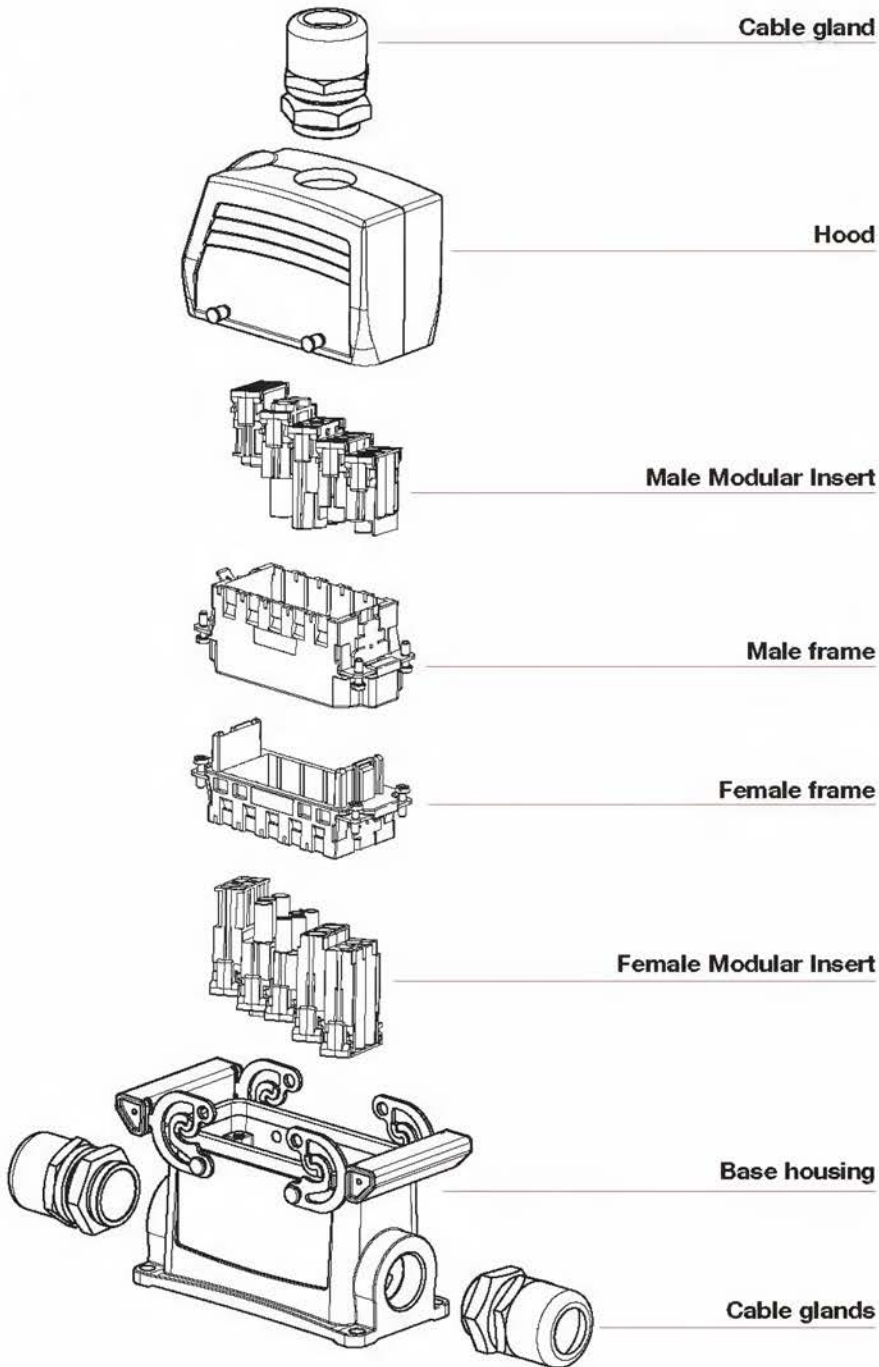


Base housing



Coupling housing

Construction of heavy-duty connectors – modular

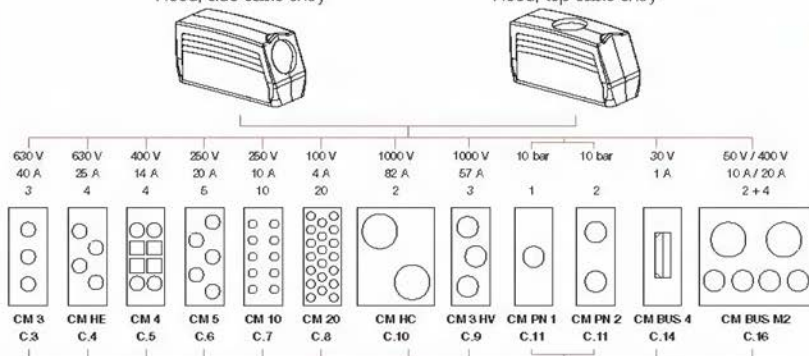


Overview of sizes 3, 4, 6, 8, 10, 12 – modular

Size

Hood, side cable entry

Hood, top cable entry



3



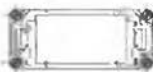
CF6 for 2 modules

4



CF10 for 3 modules

6



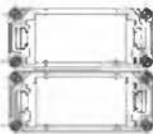
CF16 for 5 modules

8



CF24 for 7 modules

10



2 x CF16 for 10 modules

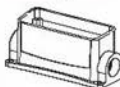
12



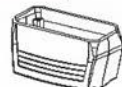
2 x CF24 for 14 modules



Bulkhead housing



Base housing

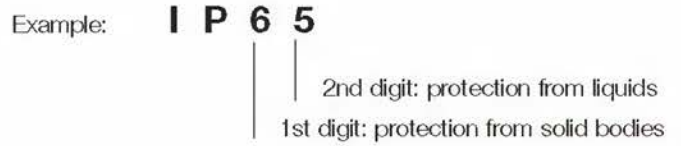


Coupling housing

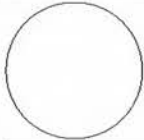




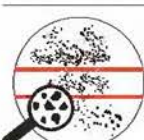

IP class of protection to DIN EN 60529

A

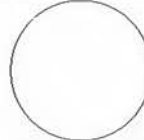






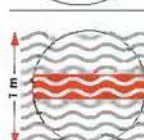
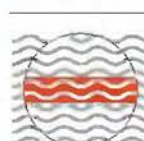
The class of protection is indicated by a code consisting of the two letters IP and two digits representing the class of protection.



Protection against intrusion of external particle matter (1st digit)

Digit		
0		No protection
1		Protection against ingress of large solid bodies with diameter > 50 mm. (Protection to prevent dangerous parts being touched with the back of the hand.)
2		Protection against ingress of large solid bodies with diameter > 12.5 mm. (Protection to prevent dangerous parts being touched with the fingers.)
3		Protection against ingress of large solid bodies with diameter > 2.5 mm. (Protection to prevent dangerous parts being touched with a tool)
4		Protection against ingress of large solid bodies with diameter > 1 mm. (Protection to prevent dangerous parts being touched with a piece of wire.)
5		Protection against harmful deposits of dust, which cannot enter in an amount sufficient to interfere with satisfactory operation.
6		Complete protection against ingress of dust.

Protection against penetration of liquids (2nd digit)

Digit		
0		No protection
1		Protection against drops of condensed water falling vertically.
2		Protection against drops of liquid falling at an angle of 15° with respect to the vertical.
3		Protection against drops of liquid falling at an angle of 60° with respect to the vertical.
4		Protection against liquids splashed from any direction.
5		Protection against water jets projected by a nozzle from any direction.
6		Protection against water from heavy sea on ships' decks.
7		Protection against immersion in water under defined conditions of pressure and time.
8		Protection against indefinite immersion in water under defined conditions of pressure (which must be agreed between manufacturer and user and must be more adverse than number 7).

Class of protection to NEMA

National Electrical Manufacturers Association NEMA 250-1991

Digit	
Type 1	Housing primarily for use in inside rooms. Protects from penetration of solid bodies.
Type 2	Housing primarily for use in inside rooms. Protects from penetration of solid bodies and water.
Type 3	Housing primarily for use in inside rooms. Protects from penetration of rain and snow, dust and damage through ice formation.
Type 3R	Housing primarily for use in inside rooms. Protects from rain and snow as well as damage through ice formation.
Type 3S	Housing primarily for use in inside rooms. Protects from rain, snow and foreign bodies. External mechanisms can be operated despite ice formation.
Type 4	Housing for inside and outside rooms. Protects from rain, foreign bodies, water spray and water jets as well as damage through ice formation on the outside of the housing.
Type 4X	Housing for inside and outside rooms. Protects from corrosion, rain, foreign bodies, water spray and water jets as well as damage through ice formation on the outside of the housing.
Type 6	Housing for inside and outside rooms. Protects from water jets as well as penetration of water when submerged; protects from damage through ice formation on the outside of the housing.

Digit	
Type 12	Housing for use in inside rooms. Protects from dust deposits and non-corrosive dripping liquids.
Type 13	Housing for use in inside rooms. Protects from dust deposits, water spray, oil and non-corrosive coolants.

RockStar® Housing types

Housing IP65 / NEMA 4X



Weidmüller has further developed its IP65 housing. The result is an industrial housing of a new design that also has the properties corrosion resistance and long service life. These new HDC industrial housings even surpass our previous stainless steel housings in all respects. All operation elements are made of stainless steel. A high-quality, multistage surface sealing provides safety for years. Good isn't good enough for us. That's why Weidmüller discontinued the stainless series and why you should use our new IP65 housing.

Applications:

- General mechanical engineering
- Conveying equipment and plant engineering
- Packaging machines
- Lighting and stage equipment
- Fairground rides
- Process engineering
- Transport and traffic engineering

Features:

- Tightness at least IP65 to EN 60529:1991 + A1:2000
- Tightness NEMA 4X
- Scratch-resistant, corrosion-proof, long-lasting

Design:

- Cast aluminium alloy
- 2 versions, standard and high
- Multistage surface coating
- Colour: grey

Fastening systems:

- Clamp lock in different versions of rustproof stainless steel

Housing IP69K – the highest degree of sealing



The IP69K housings have been developed for use under extreme environmental conditions. The high class of protection guarantees trouble-free operation in use on vehicles and under tough climatic conditions. If you want to protect your delicate interfaces from EMC emissions, these connectors are the right choice for you.

Applications:

- Transport and traffic engineering
- Extreme requirements on the class of protection
- Military and communications engineering

Features:

- Tightness IP69K to DIN 40050, part 9 (1993): water sprayed at the housing from any direction under strong pressure must not have any harmful effect.
- Tightness IP68 / 5 bar to EN 60529 (1991) + part A1 (2000)
- Scratch-resistant, corrosion-proof, long-lasting

Design:

- Cast aluminium alloy
- 2 versions, standard and high
- Surrounding metal collar on housing
- Shielded versions for EMC protection
- Robust powder coating of polyester resin
- Colour: black

Fastening systems:

- Screw fastening (see diagram below)

Fastening systems

One longitudinal locking clamp on housing bottom



- Manual operation – no tools required
- 2 locking points – along the longitudinal axis
- Easily accessible with side cable entry
- Particularly suitable for row connection
- Fastening system of rustproof stainless steel

One central locking clamp on housing top



- Manual operation – no tools required
- 2 locking points along the transverse axis
- Easily accessible from above where space is limited
- Easily accessible with side cable entry
- Fastening system of rustproof stainless steel

Two transverse locking clamps on housing bottom



- Manual operation – no tools required
- 4 locking points – good sealing effect
- Easily accessible with cable entry pointing upwards
- Particularly suitable for row connection
- Fastening system of rustproof stainless steel

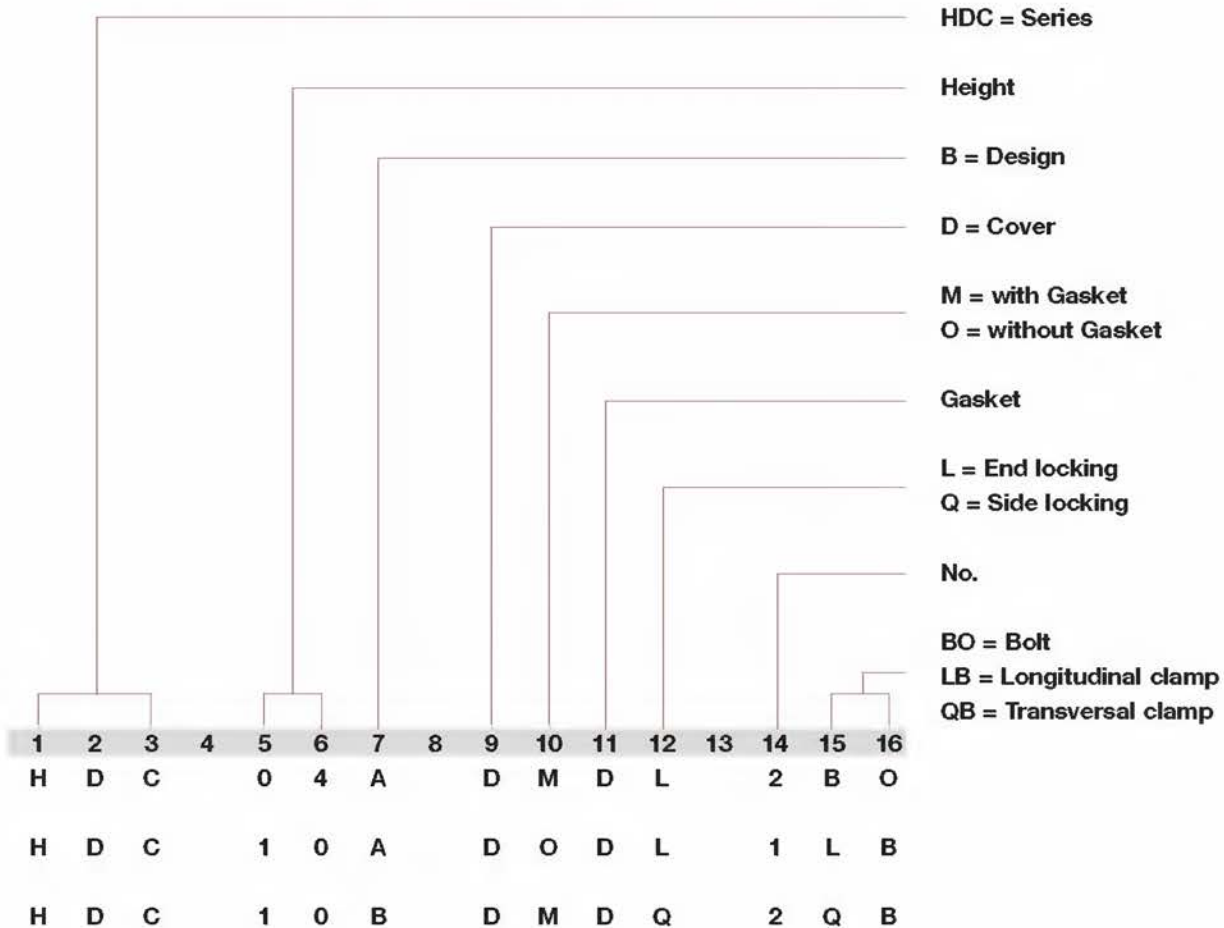
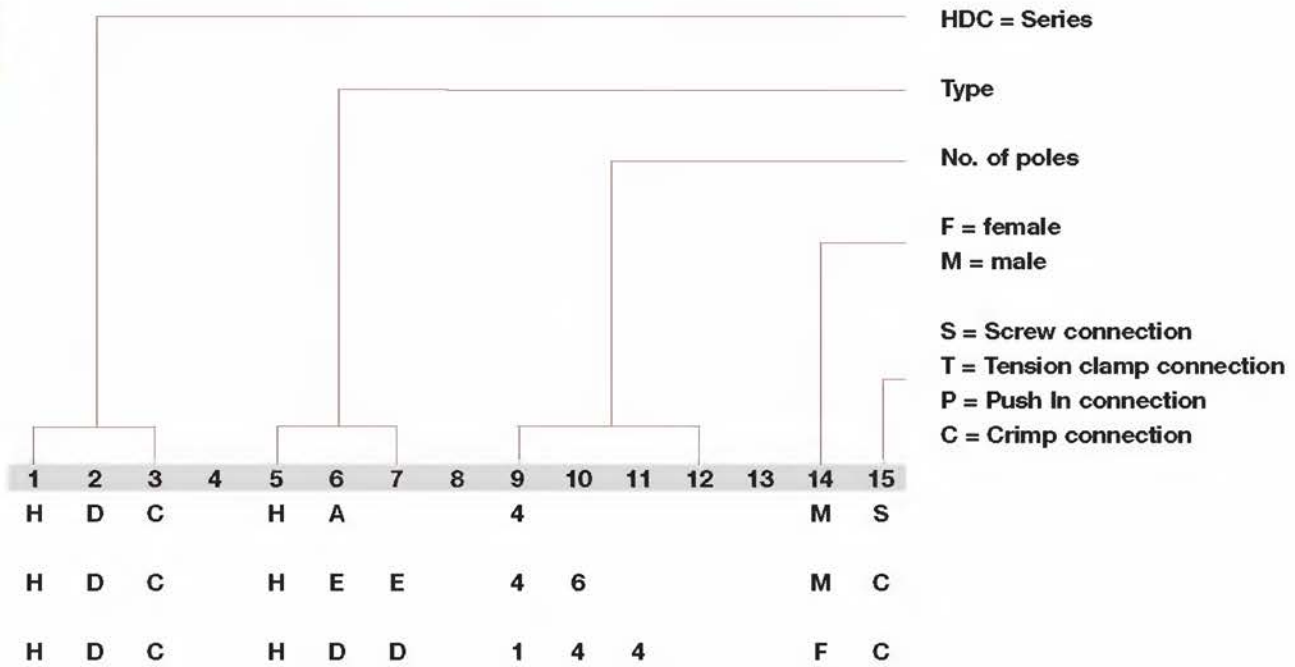
Screw fastening



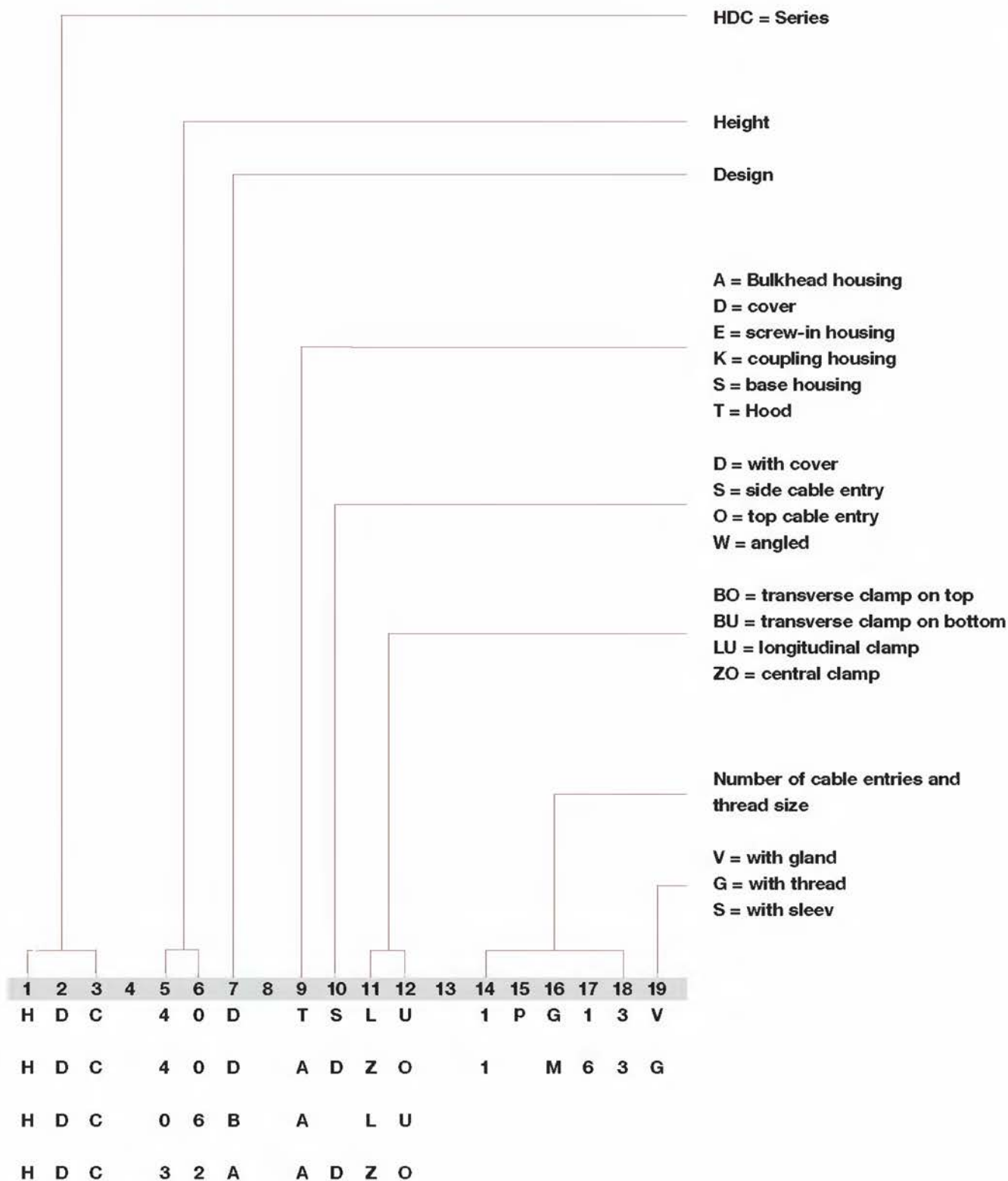
- Operation with screwdriver
- Highly effective sealing
- 2 locking points along the longitudinal axis
- Easily accessible from above where space is limited
- Particularly suitable for row connection on all sides
- Stainless steel screws

Part codes for inserts and covers

A



Part codes for housings



Connection systems

Weidmüller offers RockStar connectors with five different connection systems

There are five common types of connection: tension clamp connection, screw connection, crimping, axial screw connection and push-in technology.



Tension clamp connection

The **Weidmüller tension clamp system** functions similarly to the tried-and-tested clamping yoke. Here again, the mechanical and electrical functions are kept separate. The tension spring made from high-quality rustproof and acid-proof steel pulls

the conductor against the tin-plated copper current bar.

Treating the copper in this way ensures low contact resistance and high corrosion resistance. The compensating effect of the tension spring ensures a secure contact for the lifetime of the terminal.



Clamp body with female thread in the Weidmüller screw terminal system consist of non-ferrous CuZn material. They are protected against corrosion with a passivated silver or gold surface with wire guard of stainless

steel against impermissible deformation of solid conductors and splaying of flexible leads as well as nicking by the clamping screw. With this clamping system, a gas-tight, vibration-proof connection between conductor and clamping yoke is established. This clamping system has proven itself millions of times over in Weidmüller products.



In the **crimping** method, the wires are fed into a metal sleeve, which is then squeezed together with a special

tool. The connection is now corrosion and vibration proof. The contacts can be attached to the conductor away from the connector and then inserted into it.



The advantage of the **axial screw connection**

is the small space taken up by the contact. This increases creepage distances and improves

current transfer. The axial screw connection is also extremely easy to use. To make up the connection, the tool and conductor are held in a line. Just three steps are needed for a secure connection: strip the conductor, insert the wire into the contact chamber, screw in the contact – that's all!

PUSH IN



Push In system

In the **Push In system** the stripped solid conductor is simply inserted into the clamping point as far as it will go. And that completes the connection! No tool is required and the result is a reliable, vibration-

resistant and gas-tight connection. Even flexible conductors with crimped wire end ferrules or ultrasonic-welded conductors can be connected without any problems. A stainless steel compression spring, which is fitted in a separate housing, guarantees a high contact force between the conductor and the current bar (tin-plates copper). The pull-out force for this system is even higher than that for the tension clamp system. Spring and conductor stops in a steel housing ensure optimum connection conditions and a guide for the screwdriver needed to detach the conductor.

Crimp contacts

Whereas the contacts for screw, axial screw, tension clamp and Push In connections are already built in, the customer can choose the appropriate contact for a crimp connection.



The contacts are the heart of a plug-in connector. They represent the actual connection between two conductors. Two kinds of contact are necessary: pins and sockets (male and female).

The pin conducts the electrical current on its outer surface and is introduced into the socket, which conducts the electrical current on its inner surface. Heavy-duty connectors have copper alloy contacts and the contact surfaces are plated with gold or silver: silver improves conductivity, gold is corrosion-proof.

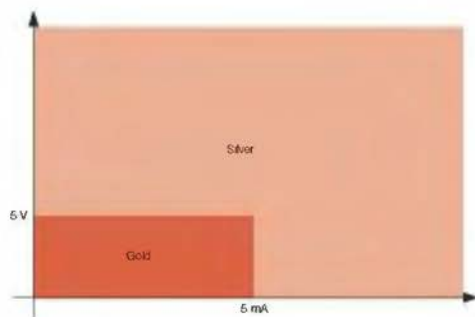
Crimp contacts are available in turned, solid form.

Selection of silver or gold-plated contacts

When using plug-in connectors under standard conditions, the resistance between the contacts has little effect. Even heavily corroded silver-coated contact pins and sockets rarely show contact problems.

The situation is different where there are very small currents in extreme applications such as those in electroplating shops, tunnels or in cellulose processing. The silver oxide layer on the surface of the contacts forms an electrical resistance with capacitive, inductive and ohmic components. As a result, the original signal is distorted so much that the recipient is unable to detect it properly and interprets it incorrectly. This results in faults and, indirectly, to damage to machines and processes. Gold-plated contacts should be used in such cases.

The rule of thumb is: use gold-coated contacts for currents < 5 mA and voltages of up to 5 V.



Electrical data

A

Design of clearances and creepage distances in electrical equipment

General

Since April 1997 the sizing of clearances and creepage distances has been covered by DIN VDE 0110, part 1 "Insulation coordination for electrical equipment in low-voltage systems". DIN VDE 0110, part 1 contains the modified edition of IEC Report 664-1 (see also IEC 664-1/Oct 1992). Since April 2003, the rules of DIN EN 60664-1 / 11.03 in conjunction with DIN 61984 / 09.02 apply to the dimensioning of clearances and creepage distances.

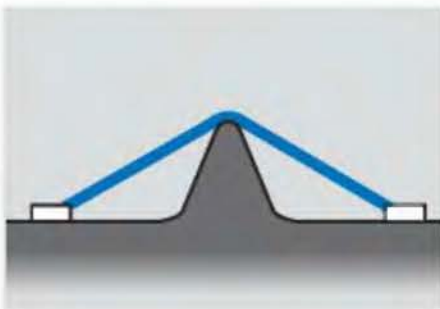
The design data resulting from these provisions is – if applicable – specified in this catalogue for each product.

For the design of clearances and creepage distances, application of the regulations for insulation coordination produces the following interrelationships:

Clearances

Clearances are rated in accordance with the following factors:

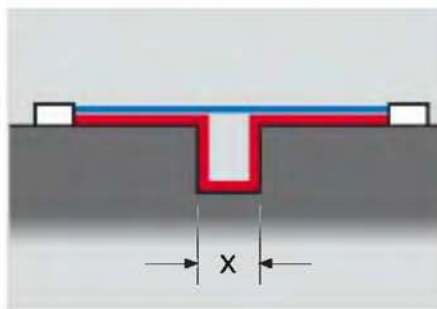
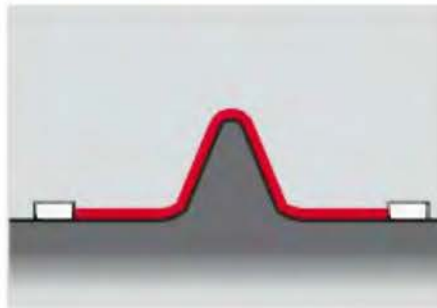
- Anticipated overvoltage
rated impulse withstand voltage
- Used
overvoltage protection precaution
- Measures to prevent pollution
pollution severity



Creepage distances

Creepage distances are rated in accordance with the following factors:

- Planned
rated voltage
- Insulation materials used
insulation group
- Measures to prevent pollution
pollution severity



Slots are taken into account when measuring creepage distances if their minimum width X is dimensioned according to the following table:

Pollution severity	Minimum width X in mm
1	0.25
2	1.0
3	1.5
4	2.5

If the associated clearance in air is less than 3 mm, the minimum slot width can be reduced to 1/3 of the clearance.

Influencing factors:

Rated impulse withstand voltage

The rated impulse withstand voltage is derived from:

- **Phase-to-earth voltage** (the nominal voltage of the network, taking all networks into account)
- **Overvoltage category**

The overvoltage categories are defined

in accordance with international standard DIN EN 60664-1 (for electrical equipment fed directly from the low voltage network).

Overvoltage category I

- Equipment that is intended to be connected to the permanent electrical installation of a building. Measures to limit transient overvoltages to the specific level are taken outside the equipment, either in the permanent installation or between the permanent installation and the equipment.

Overvoltage category II

- equipment to be connected to the permanent electrical installation of a building e.g. household appliances, portable tools and similar loads.

Overvoltage category III

- equipment that is part of the permanent electrical installation and other equipment where a higher degree of availability is expected e.g. distribution boards, circuit-breakers, wiring systems (IEV 826-06-01, including cables, busbars, junction boxes, switches, power sockets) in the permanent installation, and equipment for industrial use and some other equipment, e.g. stationary motors with permanent connections to the permanent installation.

Overvoltage category IV

- Equipment for use at or in the proximity of the incoming supply point of the electrical installations of buildings upstream of the main distribution board e.g. electricity meters, circuit-breakers and ripple control units.

Pollution severity categories:

Pollution severity category 1

- No pollution, or only dry, non-conductive pollution that has no influence.

Pollution severity category 2

- Non-conductive pollution only; occasional condensation may cause temporary conductivity.

Pollution severity category 3

- Conductive pollution, or dry, non-conductive pollution that is liable to be rendered conductive through condensation.

Pollution severity category 4

- Contamination results in constant conductivity, e.g. caused by conductive dust, rain or snow.

The dimensioning of clearances and creepage distances, and hence the rating data for electromechanical products (terminals, terminal strips, PCB terminals and plug-in connectors) is based on pollution severity 3 and overvoltage category III, taking account of all network types.

Table 1: Three-phase 4 or 3-conductor a.c. systems

Nominal voltage of power supply systems [V]	for conductor-earth insulation		
	for conductor-cond. insulat. all Systems [V]	3-phase 4-conductor systems with earthed neutral cond. [V]	3-phase 4-conductor systems unearthed or cond. earthed [V]
60	63	32	63
110			
120	125	80	125
127			
150	160	-	160
208	200	125	200
220			
230	250	160	250
240			
300	320	-	320
380			
400	400	250	400
415			
440	600	250	500
480			
500	600	320	500
575	630	400	630
600	630	-	630
660			
690	630	400	630
720			
830	800	500	800
960	1000	630	1000
1000	1000	-	1000

Electrical data

A

Design of clearances and creepage distances in electrical equipment, influencing factors:

Rated voltage

The rated voltage is derived from the nominal voltage of the power supply and the corresponding network type.

Single-phase 2- or 3-wire AC or DC systems

Rated voltage of the power supply (mains) ¹⁾	Voltages for table 4	
	For insulation phase-to-phase ¹⁾	For insulation phase-to-earth ¹⁾
	All systems	3-wire systems, neutr. point earthing
V	V	V
12.5	12.5	-
24 / 25 30	25 32	-
42 / 48 / 50 ^{**} 60	50 63	-
30-60	63	32
100 ^{**}	100	-
110 / 120 150 ^{**}	125 160	-
220	250	-
110-220 120-240	250	125
300 ^{**}	320	-
220-440	500	250
600 ^{**}	630	-
480-960	1000	500
1000 ^{**}	1000	-

3-phase 3- or 4-wire AC systems

Rated voltage of the power supply (mains) ¹⁾	Voltages for table 4		
	For insulation phase-to-phase	For insulation phase-to-earth	
	All systems	3-phase 4-wire systems with earthed neutral wire ²⁾	3-phase 3-wire systems unearthed ¹⁾ or phase-earthed
V	V	V	V
60	63	32	63
110/120/127	125	80	125
150 ^{**}	160	-	160
208	200	125	200
220/230/240	250	160	250
300 ^{**}	320	-	320
380/400/415	400	250	400
440	500	250	500
480/500	500	320	500
575	630	400	630
600 ^{**}	630	-	630
660/690	630	400	630
720/830	800	500	800
960	1000	630	1000
1000 ^{**}	1000	-	1000

1) Phase-to-earth insulation levels for unearthed or impedance-earthed systems are equal to those of phase-to-phase because the operating voltage to earth of any phase can, in practice, reach full phase-to-phase voltage. This is because the actual voltage to earth is determined by the insulation resistance and capacitive reactance of each phase to earth, thus, a low (but acceptable) insulation resistance of one phase can earth it and raise the other two to full phase-to-phase voltage to earth.

2) For electrical equipment for use in both 3-phase 4-wire and 3-phase 3-wire supplies, earthed and unearthed, use the values for 3-wire systems only.

^{*)} It is assumed that the rated voltage of the electrical equipment is not lower than the nominal voltage of the power supply.

^{**}) Because of the common changes, the meaning of the ^{**} symbol has not been used in table 1, i.e. the / symbol indicates a 4-wire 3-phase distribution system. The lower value is the phase-to-neutral voltage, while the higher value is the phase-to-phase voltage. Where only one value is indicated, it refers to 3-wire 3-phase systems and specifies the value phase-to-phase. The values given in table 1 are still taken into account in tables 3a and 3b by the ^{**} symbol.

Insulating material

The insulating materials are subdivided into four groups according to their CTI (Comparative Tracking Index):

Insulating material

I	600 ≤ CTI
II	400 ≤ CTI < 600
III a	175 ≤ CTI < 400
III b	100 ≤ CTI < 175

The comparative tracking index must be determined according to DIN IEC 112/VDE 0303 part 1 on the basis of specially prepared samples with test solution A.

The **derating curve** shows which currents may flow continuously and simultaneously via all possible connections when the component is subjected to various ambient temperatures below its upper limit temperature.

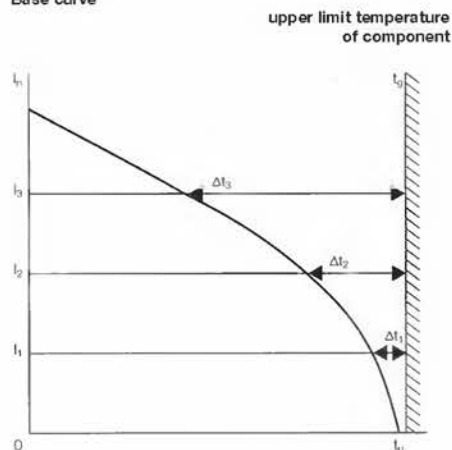
The **upper limit temperature** of a component is the rated value determined by the materials used. The total of the ambient temperature plus the temperature rise caused by the current load (power loss at contact resistance) may not exceed the upper limit temperature of the component, otherwise it will be damaged or even completely ruined. The current-carrying capacity is hence not a constant value, but rather de-creases as the component ambient temperature increases. Furthermore, the current-carrying capacity is influenced by the geometry of the component, the number of poles and the conductor(s) connected to it.

The current-carrying capacity is determined empirically according to DIN IEC 60512-3. To do this, the resulting component temperatures t_{b1} , t_{b2} ... and the ambient temperatures t_{u1} , t_{u2} are measured for three different currents I_1 , I_2 , I_3 The values are entered on a graph with a system of linear coordinates to illustrate the relationships between the currents, the ambient temperatures and the temperature rise in the component.

The **loading currents** are plotted on the y-axis, the **component ambient temperatures** on the x-axis. A line drawn perpendicular to the x-axis at the upper limit temperature t_g of the component completes the system of coordinates. The associated average values of the temperature rise in the component, $\Delta t_1 = t_{b1} - t_{u1}$, $\Delta t_2 = t_{b2} - t_{u2}$, ... are plotted for every current I_1 , I_2 , ... to the left of the perpendicular line. The points generated in this way are joined to form a roughly parabolic curve.

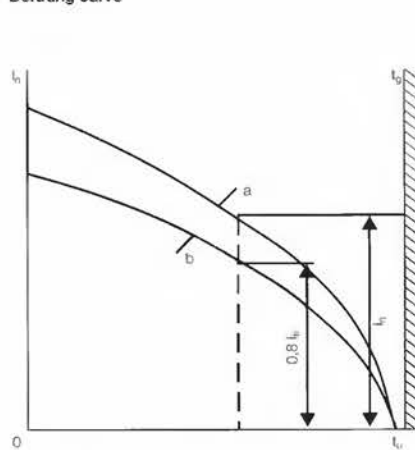
As it is practically impossible to choose components with the maximum permissible contact resistances for the measurements, the base curve must be reduced. Reducing the currents to 80% results in the **“derating curve”** in which the maximum permissible contact resistances and the measuring uncertainties in the temperature measurements are taken into account in such a way that they are suitable for practical applications, as experience has shown. If the derating curve exceeds the currents in the low ambient temperature zone, which is given by the current-carrying capacity of the conductor cross-sections to be connected, then the derating curve should be limited to the smaller current in this zone.

Base curve



t_g = upper limit temperature of component
 t_u = ambient temperature
 I_n = current

Derating curve



t_g = upper limit temperature of component
 t_u = ambient temperature
 I_n = current
 a = Base curve
 b = Reduced base curve (derating curve)

Chemical resistance

Chemical resistance of inserts (material PC, 20 % GF)

Acetone	+
Ammonia, aqueous	-
Petrol	+
Benzine	+
Diesel oil	-
Acetic acid, concentrated	+
Aqueous potassium hydroxide	-
Methanol	-
Engine oil	-
Alkaline solution, diluted	+
Chlorinated hydrocarbons	-
Use in open air	-

Chemical resistance of standard housing seal (material NBR)

Acetone	-
Drilling oil	+
Diesel	+
Ethyl alcohol	+
Gear oil	+
Hydraulic oil	+
Cooling lubricant	+
Petrol	+
Sweat	+
High-octane petrol	-
Water	+

+ resistant

- partially resistant

o not resistant

Tightening torques and screwing tool

Screw size	Connector type	Dia. tightening torque in Nm	Recommended blade inserts and AF size for hexagon socket
M 2.5	S 6/6 and S 6/12 Clamping point Signal contact	0.5 – 0.55	0.6 x 3.5 mm ± Gr. PZ0
M 3	Screw insert HA 3; HA 4; HQ 5	0.5 – 0.55	0.6 x 3.5 mm ± Gr. PZ0
M 3	Screw insert HA 10 - HA 48	0.5 – 0.55	0.6 x 3.5 mm ± Gr. PZ0
M 3	Screw insert HE series HVE series Fastening screws Guide pin Guide bush Coding pins	0.5 – 0.55 0.5 – 0.55 0.5 – 0.55 0.4 - 0.5	0.6 x 3.5 mm ± Gr. PZ0 0.6 x 3.5 mm ± Gr. PZ0 0.6 x 3.5 mm ± Gr. PZ0 0.6 x 3.5 mm ± Gr. PZ0
M 4	PE terminal HA series HE series HVE series HD series HDD series	1.2 - 1.5 1.2 - 1.5 1.2 - 1.5 1.2 - 1.5 1.2 - 1.5	0.6 x 3.5 or 0.8 x 4 mm ± Gr PZ1 0.6 x 3.5 or 0.8 x 4 mm ± Gr PZ1 0.6 x 3.5 or 0.8 x 4 mm ± Gr PZ1 0.6 x 3.5 or 0.8 x 4 mm ± Gr PZ1 0.6 x 3.5 or 0.8 x 4 mm ± Gr PZ1
M 4	Screw insert HSB series	1.2 - 1.5	0.6 x 3.5 or 0.8 x 4 mm ± Gr PZ1
M 5	PE terminal HSB series	2 - 2.5	1 x 5.5 mm ± Gr. PZ2
M 7 x 0.75 S 4	Axial connection of power contacts	1.1 – 1.7	SW 2
M 4	S 4 PE screw via male contact	1.2 – 1.5	SD 0.6 x 3.5 mm
M 3	S 4 PE Schraub via female contact	0.5 – 0.55	SD 0.6 x 3.5 mm
M 7 x 0.75	S 6/6 Axial connection of power contacts	6 – 8	SW 4
M 8 x 0.75	S 6/12 Axial connection of power contacts	1.1 – 1.7	SW 2
M 10 x 1	S 4/0 Axial connection of power contacts	2 – 3	SW 3

Increasing the tightening torque does not improve the contact resistance. The stated torque settings offer optimal mechanical, thermal and electrical conditions. Exceeding the recommended values may even damage the conductor and terminal.

Safety information / standards

A**Pay attention to the following safety advice:**

- Never plug or unplug connectors under load or in operation.
- We can only guarantee the technical and electro-technical characteristics promised in this catalogue if all the components were supplied by Weidmüller.
- Not needed clamping points must be closed.

The following standards apply in the vicinity of heady-duty connectors:

- DIN EN 60664-1 or IEC 60664-1:
Insulation coordination for equipment within low-voltage systems; principles, requirements and tests (replaces DIN VDE 0110-1)
- DIN EN 61984 or IEC 61984:
Plug-in connectors – safety requirements and tests
- DIN EN 175301-801:
Detail Specification: High-density rectangular plug-in connectors, round removable crimp contacts; (replaces DIN 43652)
- DIN EN 60352 or IEC 60352:
Solderless connections
- DIN EN 60529 or IEC 60529:
Classes of protection provided by enclosures (IP code)
- DIN VDE 0870:
Electromagnetic influence
- DIN EN 60999-1:
Connecting devices, safety requirements for screw terminal connections and screwless terminal connections for electrical copper conductors ...
- DIN 40050-9:
Road vehicles; classes of protection (IP-code); ...
- DIN EN 60664-1:
Plug-in connectors – safety requirements and tests

RockStar® inserts

RockStar® inserts	
HA series – the slim connectors	B.2
250 V	
22 A	
3 – 48 poles	
HE series – the universal connectors	B.16
500 V	
24 A	
6 – 48 poles	
HEE series – high contact density	B.30
500 V	
16 A	
10 – 46 poles	
HD series – the flexible connectors	B.40
250 V	
10 A	
7 – 128 poles	
HDD series – the compact connectors	B.64
250 V	
10 A	
24 – 216 poles	
HVE series – exciting voltage	B.78
830 V	
23 A	
3 + 2; 6 + 2; 10 + 2 poles	
HSB series – the heavy-duty connectors	B.86
400 V	
35 A	
6 – 12 poles	
MixMate series – the high-capacity connectors	B.92
1000 V / 630 V	
100 A	
4; 4/0; 6/6 and 6/12 poles	
HQ series – the powerful little connectors	B.104
400 V	
16 A	
5 – 8 poles	
CabinetMate DSTV-HE series – connector at front, terminal at rear	B.110
500 V	
16 A	
6 – 24 poles	
CabinetMate DSTV-HD series – connector at front, terminal at rear	B.120
250 V	
10 A	
16 – 64 poles	

HA series – the slim connectors

When space is tight, the small and narrow HA series comes into its own.

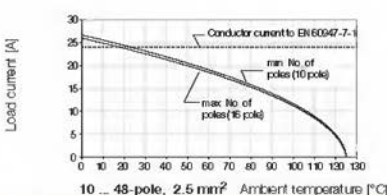
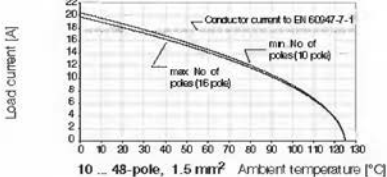
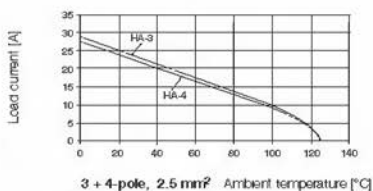
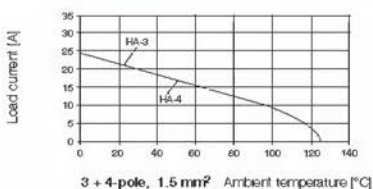


Technical data

Standards / approvals	
Standards	DIN EN 61984 DIN EN 60664-1
Approvals	ULCISA
Inserts	
No. of poles	3, 4, 10, 16, 24, 32, 48
Rated voltage	250 V
Rated voltage to ULCISA	600 V
Rated current	22 A (≥ 24 Poles 16 A)
Rated impulse withstand voltage	4 kV
Pollution severity	3
Insulation resistance	≥ 10 ⁹ Ω
Material	
	Glass-fibre reinforced PC (in UL list and approved for railway applications)
Temperature range	-40 °C ... +125 °C
Flammability to UL 94	V-0
Mechanical service life	
- Plugging cycles Ag - Surface	≥ 500
- Plugging cycles Au - Surface	≥ 500
Contact resistance	
- Crimp connection	≤ 4 mΩ
- Screw tension clamp	≤ 2 mΩ
Contacts / Material	
Sockets and plug-in contact	Copper alloy
Surface	Passivated silver, or 0.8 µm gold on 2 µm nickel
Clamping unit / Screw connection	Copper alloy / Passivated silver
Clamping range / Stripping length	
- Crimp connection*	0.5 - 4 mm ² (AWG 20 ... 12) / 8 mm
- Screw connection	0.5 - 2.5 mm ² (AWG 20 ... 14) / 9 mm
- Tension clamp connection	0.5 - 2.5 mm ² (AWG 20 ... 14) / 8 mm
* The crimp is with flexible conductors	
Clamping torque	
- Screw connection	0.5 - 0.55 Nm
SD blades	
- Screw connection	0.6 x 3.6 or PZ 0
- Push in	0.4 x 2.5
- Tension clamp connection	0.5 x 3 or 0.6 x 3.5
PE connection	
- Clamping range	0.5 ... 4 mm ²
- sold / stranded	0.5 ... 4 mm ² / 0.5 ... 4 mm ²
- flexible / flexible with weld end ferrule, DIN 46228 pt 1	0.5 ... 4 mm ² / 0.5 ... 4 mm ²
- AWG conductor	AWG 20 ... 12
- Stripping length	10 mm
- Clamping torque	1.2 ... 1.5 Nm
- Blade dimensions	SD 0.8 x 4 mm or PZ 1

Note: HA 3 and HA 4 PE terminal max. 2.5 mm² via socket and pin. Thread M3, torque range 0.5-0.55 Nm, * Crimp connection 2.5 mm² = 24 A - 4 mm² = 29 A, Switch off power supply before handling plug-in connectors.

Derating curves



Overview

		Rated voltage	Rated current	No. of poles	Tension clamp connection	Screw conn. with wire guard drilling	Crimp connection	Push In	Axial screw connection	Page
		250 V	22 A	3 + ⚡		•				B.4
		250 V	22 A	4 + ⚡		•				B.6
		250 V	22 A	10 + ⚡	•	•	•			B.8
		250 V	22 A	16 + ⚡	•	•	•			B.10
		250 V	16 A	32 + ⚡	•	•	•			B.12
		250 V	16 A	48 + ⚡	•	•	•			B.14

HA series - the slim connectors

250 V, 22 A, Size 1

3 + 

Inserts

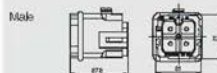
Screw connection



Insert	Designation	Order No.
Male	HDC HA3 MS	1498100000
Female	HDC HA3 FS	1498200000



Dimensions



Arrangement of contacts



Selection of Housings RockStar® IP65 Size 1



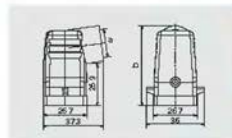
Hood

material: Diecast aluminum

Hood, Cable Entry sideways



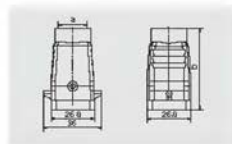
a	Version	Cover	b (mm)	Designation	Order No.
M 20		with thread	49.2	HDC 04A TWLU 1M20G	1788310000



Hood, Cable Entry at top



a	Version	Cover	b (mm)	Designation	Order No.
M 20		with thread	50	HDC 04A TCLU 1M20G	1788320000

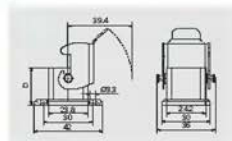


Base

Bulthead housing



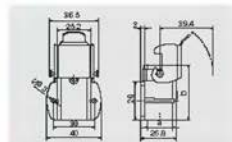
a	Version	Cover	b (mm)	Designation	Order No.
M 20		with thread	23	HDC 04A ALU	1497600000



Base housing



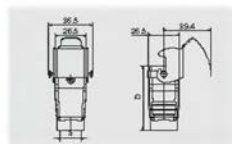
a	Version	Cover	b (mm)	Designation	Order No.
M 20		with thread	25.8	HDC 04A SLU 1M20G	1788330000



Coupling hood



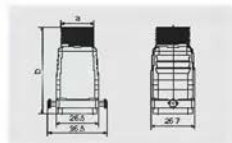
a	Version	Cover	b (mm)	Designation	Order No.
M 20		with thread	53.5	HDC 04A KCLU 1M20G	1788340000



Screw Mounting Housing



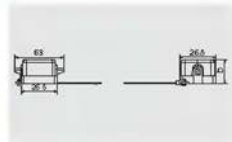
a	Version	Cover	b (mm)	Designation	Order No.
M 20		with thread	54	HDC 04A ELU 1M20G	1900320000
PG 13,5		with thread	54	HDC 04A ELU 1PG13G	1900330000
PG 13,5		with thread	54	HDC 04A ELU 1PG13G EXT	1900350000



Cover



a	Version	Designation	Order No.
	for female insert	HDC 04A DM(L) 2B0	1665750000
	for male insert	HDC 04A DDDL 2B0	1665740000



HA series - the slim connectors

250 V, 22 A, Size 1

4 + 

Inserts

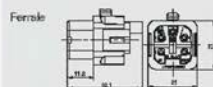
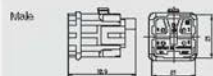
Screw connection



Insert	Designation	Order No.
Male	HDC HA 4 MS	1498300000
Female	HDC HA 4 FS	1498400000



Dimensions



Arrangement of contacts



Selection of Housings RockStar® IP65 Size 1



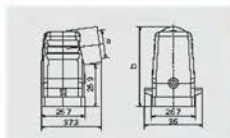
Hood

material: Diecast aluminum

Hood, Cable Entry sideways



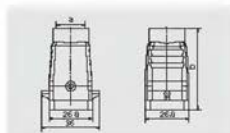
a	Version	Cover	b (mm)	Designation	Order No.
M 20		with thread	49.2	HDC 04A TWLU 1M20G	1788310000



Hood, Cable Entry at top



a	Version	Cover	b (mm)	Designation	Order No.
M 20		with thread	50	HDC 04A TCLU 1M20G	1788320000

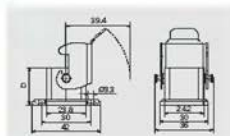


Base

Bulkhead housing



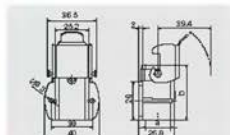
a	Version	Cover	b (mm)	Designation	Order No.
			23	HDC 04A ALU	1497600000



Base housing



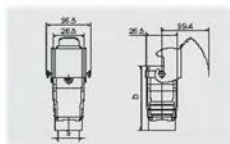
a	Version	Cover	b (mm)	Designation	Order No.
M 20		with thread	25.8	HDC 04A SLU 1M20G	1788330000



Coupling hood



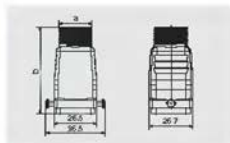
a	Version	Cover	b (mm)	Designation	Order No.
M 20		with thread	53.5	HDC 04A KCLU 1M20G	1788340000



Screw Mounting Housing



a	Version	Cover	b (mm)	Designation	Order No.
M 20		with thread	54	HDC 04A ELU 1M20G	1900320000
PG 13,5		with thread	54	HDC 04A ELU 1PG13G	1900330000
PG 13,5		with thread	54	HDC 04A ELU 1PG13G EXI	1900350000



Cover



a	Version	Designation	Order No.
	for female insert	HDC 04A DM(L) 2BO	1665750000
	for male insert	HDC 04A DODL 2BO	1665740000



HA series - the slim connectors

250 V, 22 A, Size 2

10 + 

Inserts

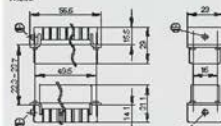
Tension clamp connection



Insert	Designation	Order No.
Male	HDC HA 10 MT	1896790000
Female	HDC HA 10 FT	1896780000

Dimensions

Male



Female

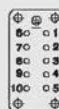
Screw connection



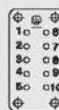
Insert	Designation	Order No.
Male	HDC HA 10 MS	1650810000
Female	HDC HA 10 FS	1650820000

Arrangement of contacts

Male



Female

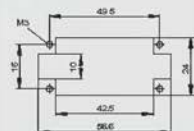


Crimp connection



Insert	Designation	Order No.
Female	HDC HA 10 FC	1873860000
Male	HDC HA 10 MC	1873870000

Mounting cut-out



Accessories

Crimp contacts

Surface silver



Surface gold



Qty.	Male	Order No.	Female	Order No.
100	HDC-C-HE-SM0 5AG	1200600000	HDC-C-HE-EM0 5AG	1201100000
100	HDC-C-HE-SM0 75-1AG	1200600000	HDC-C-HE-EM0 75-1AG	1201200000
100	HDC-C-HE-SM1 5AG	1200700000	HDC-C-HE-EM1 5AG	1201300000
100	HDC-C-HE-SM2 5AG	1200800000	HDC-C-HE-EM2 5AG	1201400000
100	HDC-C-HE-SM4 0AG	1200900000	HDC-C-HE-EM4 0AG	1201500000

100	HDC-C-HE-SM0 5AU	1651420000	HDC-C-HE-EM0 5AU	1651470000
100	HDC-C-HE-SM0 75-1AU	1651430000	HDC-C-HE-EM0 75-1AU	1651480000
100	HDC-C-HE-SM1 5AU	1651440000	HDC-C-HE-EM1 5AU	1651490000
100	HDC-C-HE-SM2 5AU	1651450000	HDC-C-HE-EM2 5AU	1651500000
100	HDC-C-HE-SM4 0AU	1651460000	HDC-C-HE-EM4 0AU	1651510000

Single contacts
Conductor mm² AWG No.

0.50	20
0.75-1.00	18
1.50	16
2.50	14
4.00	12

Tools



Crimping tool	Order No.
CTX Gm 1 6/2 5	9018490000
Contact removal tool	Order No.
Removal Tool HE	1866750000

Selection of Housings RockStar® IP65 Size 2

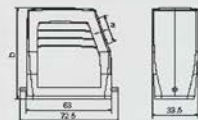


Hood

Hood, Cable Entry sideways



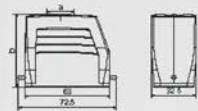
a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread		68	HDC 16A TSLU 1M20G	1788960000
M 25	with thread		68	HDC 16A TSLU 1M25G	1788950000



Hood, Cable Entry at top



a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread		64	HDC 10A TCLU 1M20G	1788920000
M 25	with thread		64	HDC 10A TCLU 1M25G	1788910000



Cover



Version	Designation	Order No.
for hoods	HDC 10A DDDL 1LB	166590000

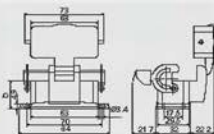


Base

Bulkhead housing



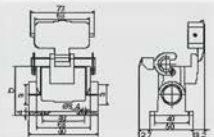
Version	Cover	b (mm)	Designation	Order No.
	with cover	37.5	HDC 10A ADLU	1664060000
		25	HDC 10A ALU	1664040000



Base housing



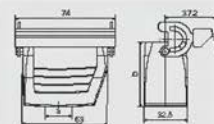
a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread	with cover	69.5	HDC 10A SDLU 2M20G	1788980000
M 25	with thread	with cover	69.5	HDC 10A SDLU 2M25G	1788950000
M 20	with thread		57	HDC 10A SLU 2M20G	1788940000
M 25	with thread		57	HDC 10A SLU 2M25G	1788930000



Coupling hood



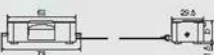
a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		48	HDC 10A KLU 1M25G	1788970000



Cover



Version	Designation	Order No.
for bases	HDC 10A DMDL 2B0	1665880000



HA series - the slim connectors

250 V, 22 A, Size 5

16 + 

Inserts

Tension clamp connection



Insert	Designation	Order No.
Male	HDC HA 16 MT	t896830000
Female	HDC HA 16 FT	t896830000

Screw connection



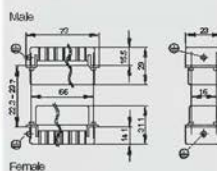
Insert	Designation	Order No.
Male	HDC HA 16 MS	t650770000
Female	HDC HA 16 FS	t650780000

Crimp connection

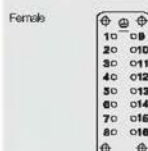
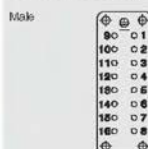


Insert	Designation	Order No.
Male	HDC HA 16 MC	t873890000
Female	HDC HA 16 FC	t873880000

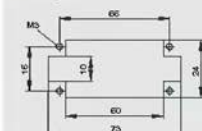
Dimensions



Arrangement of contacts



Mounting cut-out



Accessories

Crimp contacts

Surface silver



Qty.	Male	Order No.	Female	Order No.
100	HDC-C-HE-SM0 5AG	t200600000	HDC-C-HE-BM0 5AG	t201100000
100	HDC-C-HE-SM0 75-1AG	t200600000	HDC-C-HE-BM0 75-1AG	t201200000
100	HDC-C-HE-SM1 5AG	t200700000	HDC-C-HE-BM1 5AG	t201300000
100	HDC-C-HE-SM2 5AG	t200800000	HDC-C-HE-BM2 5AG	t201400000
100	HDC-C-HE-SM4 0AG	t200900000	HDC-C-HE-BM4 0AG	t201500000

Surface gold



100	HDC-C-HE-SM0 5AU	t651420000	HDC-C-HE-BM0 5AU	t651470000
100	HDC-C-HE-SM0 75-1AU	t651430000	HDC-C-HE-BM0 75-1AU	t651480000
100	HDC-C-HE-SM1 5AU	t651440000	HDC-C-HE-BM1 5AU	t651490000
100	HDC-C-HE-SM2 5AU	t651450000	HDC-C-HE-BM2 5AU	t651500000
100	HDC-C-HE-SM4 0AU	t651460000	HDC-C-HE-BM4 0AU	t651510000

Tools



Tool	Order No.
Crimping tool CTX Crt 1 6/2 5	9018490000
Contact removal tool Removal Tool HE	t866750000



Single contacts

Conductor mm² AWG No.

0.50	20
0.75-1.00	18
1.50	16
2.50	14
4.00	12

Selection of Housings RockStar® IP65 Size 5

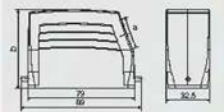


Hood

Hood, Cable Entry sideways



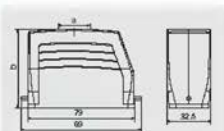
a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		58	HDC 16A TSLU 1M25G	1788740000
M 20	with thread		72	HDC 25A TSLU 1M20G	1788980000
M 25	with thread		72	HDC 25A TSLU 1M25G	1788990000



Hood, Cable Entry at top



a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		58	HDC 16A TCLU 1M25G	1788750000
M 20	with thread		72	HDC 25A TCLU 1M20G	1788710000
M 25	with thread		72	HDC 25A TCLU 1M25G	1788700000



Cover



Version	Designation	Order No.
for hoods	HDC 16A DDDL 1LB	1665900000

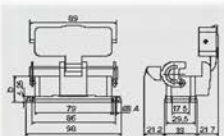


Base

Bulkhead housing



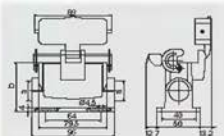
Version	Cover	b (mm)	Designation	Order No.
	with cover	44.5	HDC 16A ADLU	1664940000
		25	HDC 16A ALU	1664920000



Base housing



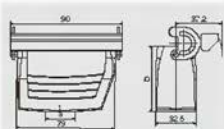
a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread	with cover	76.5	HDC 16A SDLU 2M20G	1788790000
M 25	with thread	with cover	76.5	HDC 16A SDLU 2M25G	1788780000
M 20	with thread		57	HDC 16A SLU 2M20G	1788770000
M 25	with thread		57	HDC 16A SLU 2M25G	1788760000



Coupling hood



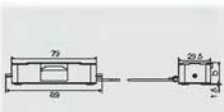
a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		53	HDC 16A KLU 1M25G	1788800000



Cover



Version	Designation	Order No.
for bases	HDC 16A DMDL 2BO	1665910000



HA series - the slim connectors

250 V, 16 A, Size 7

32 + 

Inserts

Tension clamp connection



Insert	Designation	Order No.
Male	HDC HA 16 MT	1896830000
Female	HDC HA 16 FT	1896800000
Male	HDC HA 16 MT 17-32	1896840000
Female	HDC HA 16 FT 17-32	1896810000

Screw connection



Insert	Designation	Order No.
Male	HDC HA 16 MS	1850770000
Female	HDC HA 16 FS	1850780000
Male	HDC HA 16 MS 17-32	1850830000
Female	HDC HA 16 FS 17-32	1850900000

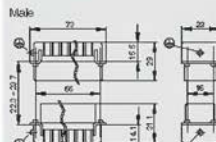
Crimp connection



Insert	Designation	Order No.
Male	HDC HA 16 MC	1873890000
Female	HDC HA 16 FC	1873880000
Male	HDC HA 16 MC 17-32	1875620000
Female	HDC HA 16 FC 17-32	1876040000



Dimensions



Male

Female

Arrangement of contacts

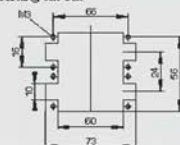
Male	Female
250 \varnothing 17	80 \varnothing 1
260 \varnothing 18	100 \varnothing 2
270 \varnothing 18	110 \varnothing 3
280 \varnothing 20	120 \varnothing 4
290 \varnothing 21	130 \varnothing 5
300 \varnothing 22	140 \varnothing 6
310 \varnothing 22	150 \varnothing 7
320 \varnothing 24	160 \varnothing 8

Male

Female

10 \varnothing 8	170 \varnothing 25
80 \varnothing 10	180 \varnothing 26
50 \varnothing 11	190 \varnothing 27
40 \varnothing 12	200 \varnothing 28
50 \varnothing 13	210 \varnothing 29
80 \varnothing 14	220 \varnothing 30
70 \varnothing 18	230 \varnothing 31
60 \varnothing 18	240 \varnothing 32

Mounting cut-out



Accessories

Crimp contacts

Surface silver



Qty.	Male	Order No.	Female	Order No.
100	HDC-C-HE-SM0 5AG	1200500000	HDC-C-HE-EM0 5AG	1201100000
100	HDC-C-HE-SM0 75-1AG	1200600000	HDC-C-HE-EM0 75-1AG	1201200000
100	HDC-C-HE-SM1 5AG	1200700000	HDC-C-HE-EM1 5AG	1201300000
100	HDC-C-HE-SM2 5AG	1200800000	HDC-C-HE-EM2 5AG	1201400000
100	HDC-C-HE-SM4 0AG	1200900000	HDC-C-HE-EM4 0AG	1201500000

Surface gold



100	HDC-C-HE-SM0 5AU	1651420000	HDC-C-HE-EM0 5AU	1651470000
100	HDC-C-HE-SM0 75-1AU	1651430000	HDC-C-HE-EM0 75-1AU	1651480000
100	HDC-C-HE-SM1 5AU	1651440000	HDC-C-HE-EM1 5AU	1651490000
100	HDC-C-HE-SM2 5AU	1651450000	HDC-C-HE-EM2 5AU	1651500000
100	HDC-C-HE-SM4 0AU	1651460000	HDC-C-HE-EM4 0AU	1651510000

Tools



Tool	Order No.
Crimping tool CTX Cm 1 6/2 5	9018490000
Contact removal tool Removal Tool HE	1896750000



Single contacts

Conductor mm ²	AWG No.
0.50	20
0.75-1.00	18
1.50	16
2.50	14
4.00	12

Selection of Housings RockStar® IP65 Size 7

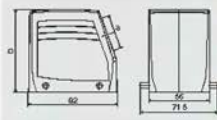


Hood

Hood, Cable Entry sideways



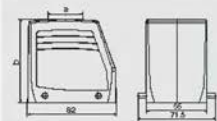
a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		75	HDC 32A TSEBU 1M25G	1787960000
M 32	with thread		75	HDC 32A TSEBU 1M32G	1787960000



Hood, Cable Entry at top



a	Version	Cover	b (mm)	Designation	Order No.
M 32	with thread		75	HDC 32A TCBU 1M32G	1787990000

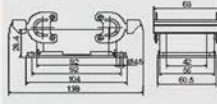


Base

Bulkhead housing



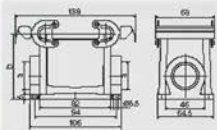
a	Version	Cover	b (mm)	Designation	Order No.
			25	HDC 32A ABU	1685860000



Base housing



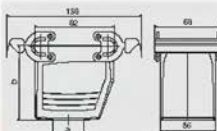
a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		75	HDC 32A SBU 2M25G	1788040000



Coupling hood



a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		76.5	HDC 32A KBU 1M25G	1788080000
M 32	with thread		76.5	HDC 32A KBU 1M32G	1788070000



HA series - the slim connectors

250 V, 16 A, Size 9

48 + 

Inserts

Tension clamp connection



Insert	Designation	Order No.
Male	HDC HA 16 MT	1896330000
Female	HDC HA 16 FT	1896340000
Male	HDC HA 16 MT 17-32	1896340000
Female	HDC HA 16 FT 17-32	1896310000
Male	HDC HA 16 MT 33-48	1896350000
Female	HDC HA 16 FT 33-48	1896320000

Screw connection



Insert	Designation	Order No.
Male	HDC HA 16 MS	1650770000
Female	HDC HA 16 FS	1650780000
Male	HDC HA 16 MS 17-32	1650830000
Female	HDC HA 16 FS 17-32	1650900000
Male	HDC HA 16 MS 33-48	1650990000
Female	HDC HA 16 FS 33-48	1651020000

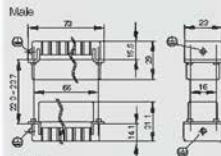
Crimp connection



Insert	Designation	Order No.
Male	HDC HA 16 MC	1873890000
Female	HDC HA 16 FC	1873880000
Male	HDC HA 16 MC 17-32	1875620000
Female	HDC HA 16 FC 17-32	1876040000
Male	HDC HA 16 MC 33-48	1875630000
Female	HDC HA 16 FC 33-48	1875640000

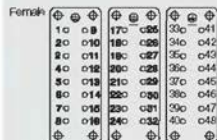
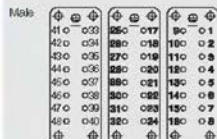


Dimensions

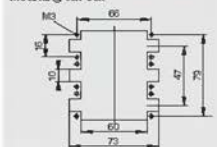


Female

Arrangement of contacts



Mounting cut-out



Accessories

Crimp contacts

Surface silver



Surface gold



Qty.	Male	Order No.	Female	Order No.
100	HDC-C-HE-SM0 5AG	1200500000	HDC-C-HE-BM0 5AG	1201100000
100	HDC-C-HE-SM0 75-1AG	1200600000	HDC-C-HE-BM0 75-1AG	1201200000
100	HDC-C-HE-SM1 5AG	1200700000	HDC-C-HE-BM1 5AG	1201300000
100	HDC-C-HE-SM2 5AG	1200800000	HDC-C-HE-BM2 5AG	1201400000
100	HDC-C-HE-SM4 0AG	1200900000	HDC-C-HE-BM4 0AG	1201500000

100	HDC-C-HE-SM0 5AU	1651420000	HDC-C-HE-BM0 5AU	1651470000
100	HDC-C-HE-SM0 75-1AU	1651430000	HDC-C-HE-BM0 75-1AU	1651480000
100	HDC-C-HE-SM1 5AU	1651440000	HDC-C-HE-BM1 5AU	1651490000
100	HDC-C-HE-SM2 5AU	1651450000	HDC-C-HE-BM2 5AU	1651500000
100	HDC-C-HE-SM4 0AU	1651460000	HDC-C-HE-BM4 0AU	1651510000



Single contacts

Conductor mm ²	AWG No.
0.50	20
0.75-1.00	18
1.50	16
2.50	14
4.00	12

Tools



Tool	Order No.
Crimping tool CTX Crt 1 6/2 5	9018490000
Contact removal tool Removal Tool HE	1896750000

Selection of Housings RockStar® IP65 Size 9

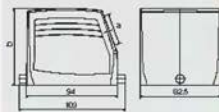


Hood

Hood, Cable Entry sideways



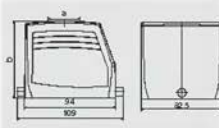
a	Version	Cover	b (mm)	Designation	Order No.
M 32		with thread	79	HDC 48A TSLU 1M32G	1783560000



Hood, Cable Entry at top



a	Version	Cover	b (mm)	Designation	Order No.
M 32		with thread	79	HDC 48A TCLU 1M32G	1783560000

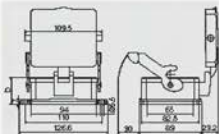


Base

Bulkhead housing



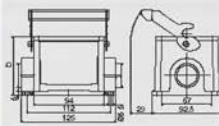
Version	Cover	b (mm)	Designation	Order No.
	with cover	53	HDC 48A ADLU	1666750000
		36	HDC 48A ALLU	1666740000



Base housing



a	Version	Cover	b (mm)	Designation	Order No.
M 32		with thread	79	HDC 48A SLU 2M32G	1783570000



HE series – the universal connectors

With the HE series, users are free to choose the connection system for the conductor. In addition to the proven tension clamp connection, screw and crimp connections are available.

Furthermore, Weidmüller is the first manufacturer to offer this series in push-in design.

Simply choose the connection system you need.

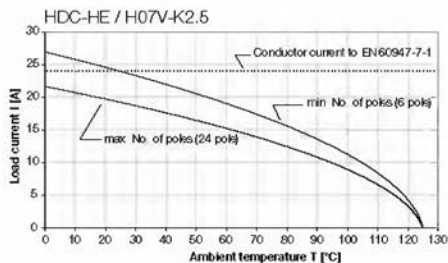
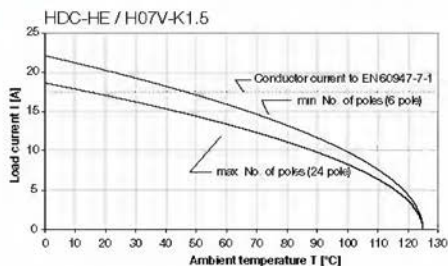


Technical data




Standards / approvals	
Standards	DIN EN 61984 DIN EN 60664-1
Approvals	UL/CSA
Inserts	
No. of poles	6, 10, 16, 24, 32, 48
Rated voltage	500 V
Rated voltage to UL/CSA	600 V
Rated current	16 A (6 poles 24 A)
Rated impulse withstand voltage	6 kV
Pollution severity	3
Insulation resistance	$\geq 10^9 \Omega$
Material	Glass-fibre reinforced PC (in UL list and approved for railway applications)
Temperature range	-40 °C ... +125 °C
Flammability to UL 94	V-0
Mechanical service life	
- Plugging cycles Ag - Surface	≥ 500
- Plugging cycles Au - Surface	≥ 500
Contact resistance	
Crimp connection	$\leq 4 \text{ m}\Omega$
Screw tension clamp + Push In	$\leq 2 \text{ m}\Omega$
Contacts / Material	
Sockets and plug-in contact	Copper alloy
Surface	Passivated silver, or 0.8 μm gold on 2 μm nickel
Clamping unit / Screw connection	Copper alloy / Passivated silver
Clamping range / Stripping length	
- Crimp connection	
- Flexible conductor connection	0.5 ... 4 mm ² (AWG 20 ... 12)
- Stripping length	7.5 mm
- Screw connection	0.5 - 2.5 mm ² (AWG 20 ... 14) / 9 mm
- Push In	0.5 - 2.5 mm ² (AWG 20 ... 14) / 8 mm
- Tension clamp connection	0.5 - 2.5 mm ² (AWG 20 ... 14) / 8 mm
Clamping torque	
- Screw connection	0.5 - 0.55 Nm
SD blades	
- Screw connection	0.6 x 3.6 or PZ 0
- Push In	0.4 x 2.5
- Tension clamp connection	0.5 x 3 or 0.6 x 3.5
PE connection	
- Clamping range	0.5 ... 4 mm ²
- solid / stranded with	0.5 ... 4 mm ² / 0.5 ... 4 mm ²
- flexible / flexible with	
- wire end ferrule, DIN 46228 pt 1	0.5 ... 4 mm ² / 0.5 ... 4 mm ²
- AWG conductor	AWG 20 ... 12
- Stripping length	10 mm
- Clamping torque	1.2 ... 1.5 Nm
- Blade dimensions	SD 0.8 x 4 mm or PZ 1

Note: Switch off power supply before handling plug-in connectors
Inserts with push-in connection can be connected to the H07V-U4 conductor

Derating curves



Overview

	Rated voltage	Rated current	No. of poles	Tension clamp connection	Screw conn. with wire guard spring	Crimp connection	Push In	Axial screw connection	Page
	500 V	24 A	6 + ⊕	•	•	•	•		B.18
	500 V	16 A	10 + ⊕	•	•	•	•		B.20
	500 V	16 A	16 + ⊕	•	•	•	•		B.22
	500 V	16 A	24 + ⊕	•	•	•	•		B.24
	500 V	16 A	32 + ⊕	•	•	•	•		B.26
	500 V	16 A	48 + ⊕	•	•	•	•		B.28

HE series - the universal connectors

500 V, 24 A, Size 3

6 + 

Inserts

Tension clamp connection



Insert	Designation	Order No.
Male	HDC HE 6 MT	1745220000
Female	HDC HE 6 FT	1745160000

Screw connection



Insert	Designation	Order No.
Male	HDC HE 6 MS	1200000000
Female	HDC HE 6 FS	1200200000

Push In connection



Insert	Designation	Order No.
Male	HDC HE 6 MP	1873630000
Female	HDC HE 6 FP	1873520000

Crimp connection



Insert	Designation	Order No.
Male	HDC HE 6 MC	1200400000
Female	HDC HE 6 FC	1201000000

Accessories

Crimp contacts

Surface silver



Surface gold



Qty.	Male	Order No.	Female	Order No.
100	HDC-C-HE-SM0 5AG	1200500000	HDC-C-HE-EM0 5AG	1201100000
100	HDC-C-HE-SM0 75-1AG	1200900000	HDC-C-HE-EM0 75-1AG	1201200000
100	HDC-C-HE-SM1 5AG	1200700000	HDC-C-HE-EM1 5AG	1201300000
100	HDC-C-HE-SM2 5AG	1200800000	HDC-C-HE-EM2 5AG	1201400000
100	HDC-C-HE-SM4 0AG	1200900000	HDC-C-HE-EM4 0AG	1201500000

100	HDC-C-HE-SM0 5AU	1651420000	HDC-C-HE-EM0 5AU	1651470000
100	HDC-C-HE-SM0 75-1AU	1651430000	HDC-C-HE-EM0 75-1AU	1651480000
100	HDC-C-HE-SM1 5AU	1651440000	HDC-C-HE-EM1 5AU	1651490000
100	HDC-C-HE-SM2 5AU	1651450000	HDC-C-HE-EM2 5AU	1651500000
100	HDC-C-HE-SM4 0AU	1651460000	HDC-C-HE-EM4 0AU	1651510000

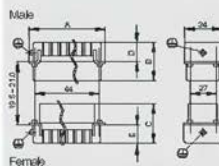
Tools



Crimping tool	Order No.
CTX CM 1 6/2 5	9018490000
Contact removal tool	Order No.
Removal Tool HE	1868750000

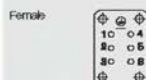


Dimensions

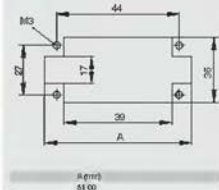


A (mm) B (mm) C (mm) D (mm) E (mm)
 40 30 33 20 19 10 11 50

Arrangement of contacts



Mounting cut-out



R (mm)
 51.00



Single contacts

Conductor mm ²	AWG No.
0.50	20
0.75-1.00	18
1.50	16
2.50	14
4.00	12

Selection of Housings RockStar® IP65 Size 3

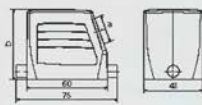


Hood

Hood, Cable Entry sideways



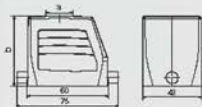
a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread		52	HDC 06B TSLU 1M20G	t782100000
M 20	with thread		52	HDC 06B TSLU 1M20G	t805930000
M 25	with thread		52	HDC 06B TSLU 1M25G	t783090000
M 25	with thread		72	HDC 16D TSLU 1M25G	t787430000



Hood, Cable Entry at top



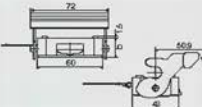
a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread		52	HDC 06B TOLU 1M20G	t782120000
M 25	with thread		52	HDC 06B TOLU 1M25G	t782110000
M 25	with thread		72	HDC 16D TOLU 1M25G	t787500000
M 32	with thread		72	HDC 16D TOLU 1M32G	t787490000



Cover



Version	Designation	Order No.
for hoods	HDC 06B DMCL 1LB	t665210000



Base

Bulkhead housing



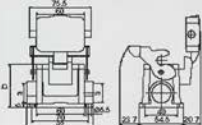
Version	Cover	b (mm)	Designation	Order No.
		29	HDC 06B ALLU	t202100000
	with cover	47	HDC 06B ADLU	t202500000



Base housing



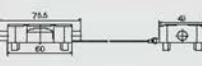
a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread		54	HDC 06B SLU 2M20G	t782140000
M 20	with thread	with cover	72	HDC 06B SCLU 2M20G	t782170000
M 25	with thread		54	HDC 06B SLU 2M25G	t782130000
M 25	with thread	with cover	72	HDC 06B SCLU 2M25G	t782160000



Cover



Version	Designation	Order No.
for bases	HDC 06B DCDL 2B0	t665200000



HE series - the universal connectors

500 V, 16 A, Size 4

10 + 

Inserts

Tension clamp connection



Insert	Designation	Order No.
Male	HDC HE 10 MT	t745830000
Female	HDC HE 10 FT	t745770000

Screw connection



Insert	Designation	Order No.
Female	HDC HE 10 FS	t204100000
Male	HDC HE 10 MS	t203900000

Push In connection



Insert	Designation	Order No.
Male	HDC HE 10 MP	t873560000
Female	HDC HE 10 FP	t873540000

Crimp connection



Insert	Designation	Order No.
Male	HDC HE 10 MC	t204300000
Female	HDC HE 10 FC	t204400000

Accessories

Crimp contacts

Surface silver



Surface gold



Qty.	Male	Order No.	Female	Order No.
100	HDC-C-HE-SM0 5AG	t200500000	HDC-C-HE-EM0 5AG	t201100000
100	HDC-C-HE-SM0 75-1AG	t200600000	HDC-C-HE-EM0 75-1AG	t201200000
100	HDC-C-HE-SM1 5AG	t200700000	HDC-C-HE-EM1 5AG	t201300000
100	HDC-C-HE-SM2 5AG	t200800000	HDC-C-HE-EM2 5AG	t201400000
100	HDC-C-HE-SM4 0AG	t200900000	HDC-C-HE-EM4 0AG	t201500000

100	HDC-C-HE-SM0 5AU	t651420000	HDC-C-HE-EM0 5AU	t651470000
100	HDC-C-HE-SM0 75-1AU	t651430000	HDC-C-HE-EM0 75-1AU	t651480000
100	HDC-C-HE-SM1 5AU	t651440000	HDC-C-HE-EM1 5AU	t651490000
100	HDC-C-HE-SM2 5AU	t651450000	HDC-C-HE-EM2 5AU	t651500000
100	HDC-C-HE-SM4 0AU	t651460000	HDC-C-HE-EM4 0AU	t651510000

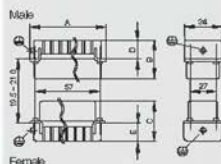
Tools



Crimping tool	Order No.
CTX CM 1 6/2 5	9018490000
Contact removal tool	Order No.
Removal Tool HE	t866750000



Dimensions

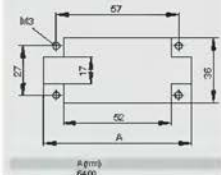


A (mm) B (mm) C (mm) D (mm) E (mm)
G (mm) H (mm) I (mm) J (mm) K (mm)

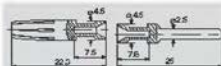
Arrangement of contacts



Mounting cut-out



A (mm) 64.00



Single contacts

Conductor mm ²	AWG No.
0.50	20
0.75-1.00	18
1.50	16
2.50	14
4.00	12

Selection of Housings RockStar® IP65 Size 4

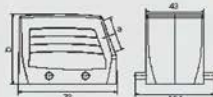


Hood

Hood, Cable Entry sideways



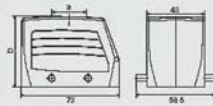
a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread		52	HDC 10B TSBU 1M20G	1787560000
M 25	with thread		52	HDC 10B TSBU 1M25G	1787560000
M 25	with thread		72	HDC 24D TSBU 1M25G	1787240000
M 32	with thread		72	HDC 24D TSBU 1M32G	1787230000



Hood, Cable Entry at top



a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread		52	HDC 10B TCBU 1M20G	1787990000
M 25	with thread		52	HDC 10B TCBU 1M25G	1787990000
M 25	with thread		72	HDC 24D TCBU 1M25G	1787930000
M 32	with thread		72	HDC 24D TCBU 1M32G	1787920000



Cover



Version	Designation	Order No.
for hoods	HDC 10B DMDQ 2QB	1665240000

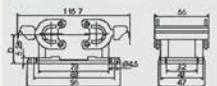


Base

Bulkhead housing



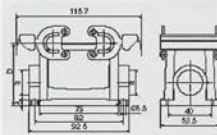
Version	Cover	b (mm)	Designation	Order No.
		29.3	HDC 10B ABU	1206000000



Base housing



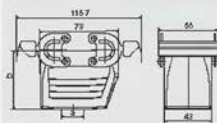
a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread		57	HDC 10B SBU 2M20G	1787640000
M 25	with thread		57	HDC 10B SBU 2M25G	1787630000
M 25	with thread		74	HDC 24D SBU 2M25G	1787350000
M 32	with thread		74	HDC 24D SBU 2M32G	1787360000



Coupling hood



a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread		56	HDC 10B KBU 1M20G	1787720000



Cover



Version	Designation	Order No.
for bases	HDC 10B DCDQ 4BO	1665230000



HE series - the universal connectors

500 V, 16 A, Size 6

16 + 

Inserts

Tension clamp connection



Insert	Designation	Order No.
Male	HDC HE 16 MT	1745840000
Female	HDC HE 16 FT	1745780000

Screw connection



Insert	Designation	Order No.
Male	HDC HE 16 MS	1207500000
Female	HDC HE 16 FS	1207700000

Push In connection



Insert	Designation	Order No.
Male	HDC HE 16 MP	1873570000
Female	HDC HE 16 FP	1873560000

Crimp connection



Insert	Designation	Order No.
Male	HDC HE 16 MC	1207900000
Female	HDC HE 16 FC	1208000000

Accessories

Crimp contacts

Surface silver



Surface gold



Qty.	Male	Order No.	Female	Order No.
100	HDC-C-HE-SM0 5AG	1200500000	HDC-C-HE-EM0 5AG	1201100000
100	HDC-C-HE-SM0 75-1AG	1200600000	HDC-C-HE-EM0 75-1AG	1201200000
100	HDC-C-HE-SM1 5AG	1200700000	HDC-C-HE-EM1 5AG	1201300000
100	HDC-C-HE-SM2 5AG	1200800000	HDC-C-HE-EM2 5AG	1201400000
100	HDC-C-HE-SM4 0AG	1200900000	HDC-C-HE-EM4 0AG	1201500000

100	HDC-C-HE-SM0 5AU	1651420000	HDC-C-HE-EM0 5AU	1651470000
100	HDC-C-HE-SM0 75-1AU	1651430000	HDC-C-HE-EM0 75-1AU	1651480000
100	HDC-C-HE-SM1 5AU	1651440000	HDC-C-HE-EM1 5AU	1651490000
100	HDC-C-HE-SM2 5AU	1651450000	HDC-C-HE-EM2 5AU	1651500000
100	HDC-C-HE-SM4 0AU	1651460000	HDC-C-HE-EM4 0AU	1651510000

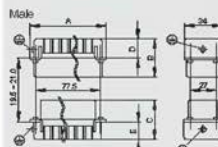
Tools



Tool	Order No.
Crimping tool CTX CM 1 6/2 5	9018490000
Contact removal tool Removal Tool HE	1866750000

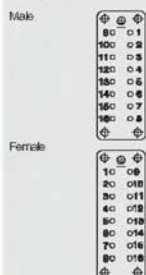


Dimensions

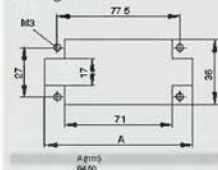


Male
Female

Arrangement of contacts



Mounting cut-out



Single contacts

Conductor mm ²	AWG No.
0.50	20
0.75-1.00	18
1.50	16
2.50	14
4.00	12

Selection of Housings RockStar® IP65 Size 6

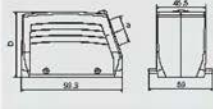


Hood

Hood, Cable Entry sideways



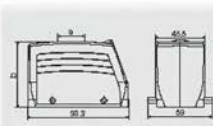
a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		61	HDC 16B TSBU 1M25G	1782180000
M 25	with thread		76	HDC 40D TSBU 1M25G	1787010000
M 32	with thread		76	HDC 40D TSBU 1M32G	1787000000



Hood, Cable Entry at top



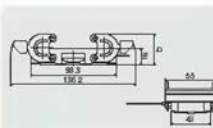
a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		61	HDC 16B TCBU 1M25G	1782210000
M 25	with thread		76	HDC 40D TCBU 1M25G	1787070000
M 32	with thread		76	HDC 40D TCBU 1M32G	1787060000



Cover



Version	Designation	Order No.
for hoods	HDC 16B DMDQ 2QB	1665270000

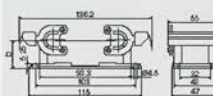


Base

Bulkhead housing



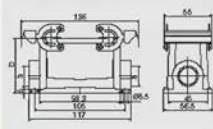
Version	Cover	b (mm)	Designation	Order No.
		29	HDC 16B ABU	1209600000



Base housing



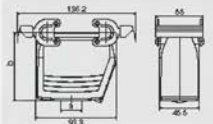
a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		64	HDC 16B SBU 2M25G	1782240000
M 25	with thread		84	HDC 40D SBU 2M25G	1787120000
M 32	with thread		84	HDC 40D SBU 2M32G	1787110000



Coupling hood



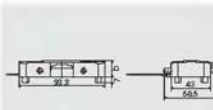
a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		79	HDC 40D RBU 1M25G	1787200000
M 32	with thread		79	HDC 40D RBU 1M32G	1787190000



Cover



Version	Designation	Order No.
for bases	HDC 16B DCDQ 4BO	1665260000



HE series - the universal connectors

500 V, 16 A, Size 8

24 + 

Inserts

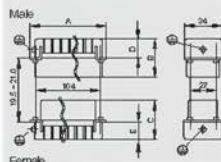
Tension clamp connection



Insert	Designation	Order No.
Male	HDC HE 24 MT	1745650000
Female	HDC HE 24 FT	1745790000



Dimensions



Female

AWG No. 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50

Screw connection



Insert	Designation	Order No.
Male	HDC HE 24 MS	1211100000
Female	HDC HE 24 FS	1211300000

Push In connection

**PUSH IN**

Insert	Designation	Order No.
Male	HDC HE 24 MP	1873690000
Female	HDC HE 24 FP	1873580000

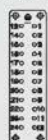
Crimp connection



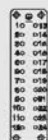
Insert	Designation	Order No.
Male	HDC HE 24 MC	1211500000
Female	HDC HE 24 FC	1211600000

Arrangement of contacts

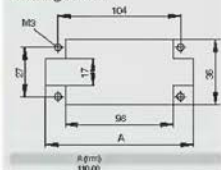
Male



Female



Mounting cut-out



Accessories

Crimp contacts

Surface silver



Qty.	Male	Order No.	Female	Order No.
100	HDC-C-HE-SM0 5AG	1200500000	HDC-C-HE-EM0 5AG	1201100000
100	HDC-C-HE-SM0 75-1AG	1200600000	HDC-C-HE-EM0 75-1AG	1201200000
100	HDC-C-HE-SM1 5AG	1200700000	HDC-C-HE-EM1 5AG	1201300000
100	HDC-C-HE-SM2 5AG	1200800000	HDC-C-HE-EM2 5AG	1201400000
100	HDC-C-HE-SM4 0AG	1200900000	HDC-C-HE-EM4 0AG	1201500000

Surface gold



100	HDC-C-HE-SM0 5AU	1651420000	HDC-C-HE-EM0 5AU	1651470000
100	HDC-C-HE-SM0 75-1AU	1651430000	HDC-C-HE-EM0 75-1AU	1651480000
100	HDC-C-HE-SM1 5AU	1651440000	HDC-C-HE-EM1 5AU	1651490000
100	HDC-C-HE-SM2 5AU	1651450000	HDC-C-HE-EM2 5AU	1651500000
100	HDC-C-HE-SM4 0AU	1651460000	HDC-C-HE-EM4 0AU	1651510000

Tools



Tool	Order No.
Crimping tool CTX CM 1 6/2 5	9018490000
Contact removal tool Removal Tool HE	1866750000



Single contacts

Conductor mm² AWG No.

0.50	20
0.75-1.00	18
1.50	16
2.50	14
4.00	12

Selection of Housings RockStar® IP65 Size 8

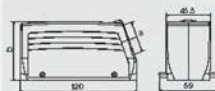


Hood

Hood, Cable Entry sideways



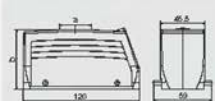
a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		61	HDC 24B TSBU 1M25G	1787760000
M 32	with thread		61	HDC 24B TSBU 1M32G	1787760000
M 25	with thread		76	HDC 64D TSBU 1M25G	1786780000
M 32	with thread		76	HDC 64D TSBU 1M32G	1786770000



Hood, Cable Entry at top



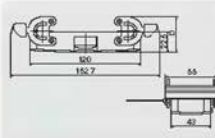
a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		61	HDC 24B TCBU 1M25G	1787820000
M 32	with thread		61	HDC 24B TCBU 1M32G	1787810000
M 32	with thread		76	HDC 64D TCBU 1M32G	1786830000



Cover



Version	Designation	Order No.
for hoods	HDC 24B DMDQ 2QB	1665640000

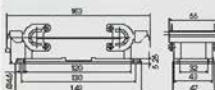


Base

Bulkhead housing



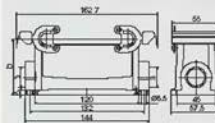
Version	Cover	b (mm)	Designation	Order No.
		29.3	HDC 24B ABU	1212400000



Base housing



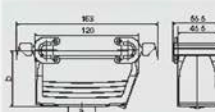
a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		64	HDC 24B SBU 2M25G	1787870000
M 25	with thread		84	HDC 64D SBU 2M25G	1786890000
M 32	with thread		84	HDC 64D SBU 2M32G	1786830000



Coupling hood



a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		65	HDC 24B KBU 1M25G	1787920000
M 32	with thread		79	HDC 64D KBU 1M32G	1786960000



Cover



Version	Designation	Order No.
for bases	HDC 24B DCDQ 4BO	1665630000



HE series - the universal connectors

500 V, 16 A, Size 10

32 + 

Inserts

Tension clamp connection



Insert	Designation	Order No.
Male	HDC HE 16 MT	1745840000
Female	HDC HE 16 FT	1745780000
Male	HDC HE 16 MT 17-32	1745860000
Female	HDC HE 16 FT 17-32	1745800000

Screw connection



Insert	Designation	Order No.
Male	HDC HE 16 MS	1207500000
Female	HDC HE 16 FS	1207700000
Male	HDC HE 16 MS 17-32	1215700000
Female	HDC HE 16 FS 17-32	1216100000

Push In connection



Insert	Designation	Order No.
Male	HDC HE 16 MP	1873670000
Female	HDC HE 16 FP	1873660000
Male	HDC HE 16 MP 17-32	1875800000
Female	HDC HE 16 FP 17-32	1875740000

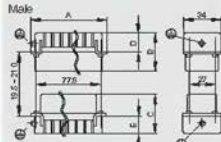
Crimp connection



Insert	Designation	Order No.
Male	HDC HE 16 MC	1207900000
Female	HDC HE 16 FC	1208000000
Male	HDC HE 16 MC 17-32	1216500000
Female	HDC HE 16 FC 17-32	1216700000



Dimensions



Female

A mm B mm C mm D mm E mm F mm G mm H mm I mm J mm K mm L mm M mm N mm O mm P mm Q mm R mm S mm T mm U mm V mm W mm X mm Y mm Z mm

Arrangement of contacts

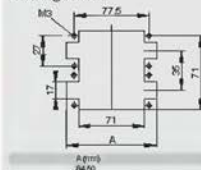
Male

23C	017	8C	01
25C	018	10C	02
27C	019	11C	03
28C	020	13C	04
28C	021	13C	05
30C	022	14C	06
31C	023	16C	07
32C	024	18C	08

Female

10	09	17C	025
12	010	18C	026
13	011	18C	027
14	012	20C	028
16	013	21C	029
18	014	22C	030
19	015	23C	031
20	016	24C	032

Mounting cut-out



Accessories

Crimp contacts

Surface silver

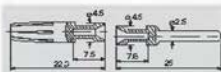


Qty.	Male	Order No.	Female	Order No.
100	HDC-C-HE-SM0 5AG	1200500000	HDC-C-HE-EM0 5AG	1201100000
100	HDC-C-HE-SM0 75-1AG	1200600000	HDC-C-HE-EM0 75-1AG	1201200000
100	HDC-C-HE-SM1 5AG	1200700000	HDC-C-HE-EM1 5AG	1201300000
100	HDC-C-HE-SM2 5AG	1200800000	HDC-C-HE-EM2 5AG	1201400000
100	HDC-C-HE-SM4 0AG	1200900000	HDC-C-HE-EM4 0AG	1201500000

Surface gold



100	HDC-C-HE-SM0 5AU	1651420000	HDC-C-HE-EM0 5AU	1651470000
100	HDC-C-HE-SM0 75-1AU	1651430000	HDC-C-HE-EM0 75-1AU	1651480000
100	HDC-C-HE-SM1 5AU	1651440000	HDC-C-HE-EM1 5AU	1651490000
100	HDC-C-HE-SM2 5AU	1651450000	HDC-C-HE-EM2 5AU	1651500000
100	HDC-C-HE-SM4 0AU	1651460000	HDC-C-HE-EM4 0AU	1651510000



Single contacts

Conductor mm ²	AWG No.
0.50	20
0.75-1.00	18
1.50	16
2.50	14
4.00	12

Tools

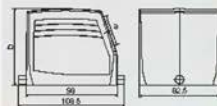


Crimping tool	Order No.
CTX CM 1 6/2 5	9018490000
Contact removal tool	Order No.
Removal Tool HE	1866750000

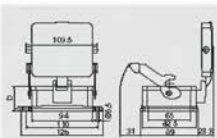
**Selection of Housings RockStar® IP65
Size 10**

Hood
Hood, Cable Entry sideways

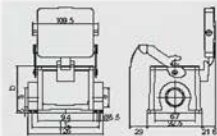

a	Version	Cover	b (mm)	Designation	Order No.
M 32	with thread		79	HDC 32B TSLU 1M32G	1788420000


Base
Bulkhead housing

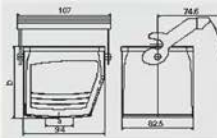

	Version	Cover	b (mm)	Designation	Order No.
		w/ cover	55	HDC 32B ADLU	1219800000
			38	HDC 32B ALU	1219500000


Base housing


a	Version	Cover	b (mm)	Designation	Order No.
M 32	with thread	w/ cover	96	HDC 32B SLLU 2M32G	1788490000
M 32	with thread		79	HDC 32B SLU 2M32G	1788470000


Coupling hood


a	Version	Cover	b (mm)	Designation	Order No.
M 32	with thread		83	HDC 32B KLU 1M32G	1788500000



HE series - the universal connectors

500 V, 16 A, Size 12

48 + 

Inserts

Tension clamp connection



Insert	Designation	Order No.
Male	HDC HE 24 MT	1745850000
Female	HDC HE 24 FT	1745790000
Male	HDC HE 24 MT 25-48	1745870000
Female	HDC HE 24 FT 25-48	1745810000

Screw connection



Insert	Designation	Order No.
Male	HDC HE 24 MS	1211100000
Female	HDC HE 24 FS	1211300000
Male	HDC HE 24 MS 25-48	1220800000
Female	HDC HE 24 FS 25-48	1221200000

Push In connection



Insert	Designation	Order No.
Male	HDC HE 24 MP	1873690000
Female	HDC HE 24 FP	1873580000
Male	HDC HE 24 MP 25-48	1875890000
Female	HDC HE 24 FP 25-48	1875850000

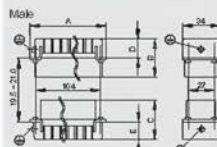
Crimp connection



Insert	Designation	Order No.
Male	HDC HE 24 MC	1211500000
Female	HDC HE 24 FC	1211600000
Male	HDC HE 24 MC 25-48	1225400000
Female	HDC HE 24 FC 25-48	1226600000



Dimensions



AWG No. 18-20 22-24 26-28 30-32 34-36 38-40

Arrangement of contacts

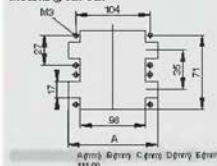
Male

870	028	180	01
880	028	180	02
890	027	180	03
900	028	180	04
910	028	170	05
920	028	180	06
930	027	180	07
940	028	200	08
950	028	180	09
960	024	220	10
970	028	180	11
980	028	180	12

Female

10	018	280	01
20	016	280	02
30	018	270	03
40	018	280	04
50	017	280	05
60	018	280	06
70	019	310	07
80	020	280	08
90	021	300	09
100	022	340	10
110	023	280	11
120	024	280	12

Mounting cut-out



Accessories

Crimp contacts

Surface silver



Qty.	Male	Order No.	Female	Order No.
100	HDC-C-HE-SM0 5AG	1200500000	HDC-C-HE-EM0 5AG	1201100000
100	HDC-C-HE-SM0 75-1AG	1200600000	HDC-C-HE-EM0 75-1AG	1201200000
100	HDC-C-HE-SM1 5AG	1200700000	HDC-C-HE-EM1 5AG	1201300000
100	HDC-C-HE-SM2 5AG	1200800000	HDC-C-HE-EM2 5AG	1201400000
100	HDC-C-HE-SM4 0AG	1200900000	HDC-C-HE-EM4 0AG	1201500000

Surface gold



100	HDC-C-HE-SM0 5AU	1651420000	HDC-C-HE-EM0 5AU	1651470000
100	HDC-C-HE-SM0 75-1AU	1651430000	HDC-C-HE-EM0 75-1AU	1651480000
100	HDC-C-HE-SM1 5AU	1651440000	HDC-C-HE-EM1 5AU	1651490000
100	HDC-C-HE-SM2 5AU	1651450000	HDC-C-HE-EM2 5AU	1651500000
100	HDC-C-HE-SM4 0AU	1651460000	HDC-C-HE-EM4 0AU	1651510000

Tools



Tool	Order No.
Crimping tool CTX CM 1 6/2 5	9018490000
Contact removal tool Removal Tool HE	1866750000



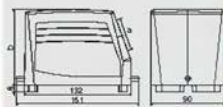
Single contacts

Conductor mm ²	AWG No.
0.50	20
0.75-1.00	18
1.50	16
2.50	14
4.00	12

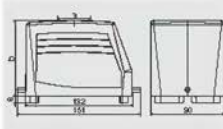
**Selection of Housings RockStar® IP65
Size 12**

Hood
Hood, Cable Entry sideways

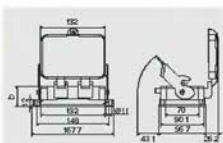

a	Version	Cover	b (mm)	Designation	Order No.
M 32	with thread		94	HDC 48B TSLU 1M32G	T782320000
M 40	with thread		94	HDC 48B TSLU 1M40G	T782310000
M 50	with thread		94	HDC 48B TSLU 1M50G	T782300000


Hood, Cable Entry at top

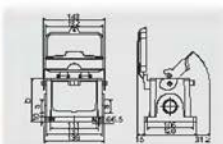

a	Version	Cover	b (mm)	Designation	Order No.
M 32	with thread		94	HDC 48B TCLU 1M32G	T782350000
M 50	with thread		94	HDC 48B TCLU 1M50G	T782330000


Base
Bulkhead housing


Version	Cover	b (mm)	Designation	Order No.
	with cover	62	HDC 48B ADLU	T222900000


Base housing

a	Version	Cover	b (mm)	Designation	Order No.
M 32	with thread	with cover	120	HDC 48B SDLU 2M32G	T782390000
M 32	with thread		100	HDC 48B SLU 2M32G	T782370000
M 40	with thread		100	HDC 48B SLU 2M40G	T782360000



HEE series – high contact density

The HEE series has a high contact density and its design is based on the proven HE inserts.



Technical data

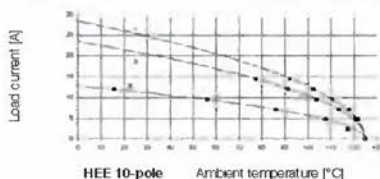
Standards / approvals	
Standards	DIN EN 61984 DIN EN 60664-1
Approvals	ULCSA
Inserts	
No. of poles	10, 18, 32, 46 (HPE)
Rated voltage	600 V
Rated voltage to ULCSA	600 V
Rated current	16 A
Rated impulse withstand voltage	6 kV
Pollution severity	3
Insulation resistance	$\geq 10^9 \Omega$
Material	Glass-fibre reinforced PC (in UL list and approved for railway applications)
Temperature range	-40 °C ... +125 °C
Flammability to UL 94	V-0
Mechanical service life	
- Plugging cycles Ag - Surface	≥ 500
- Plugging cycles Au - Surface	≥ 500
Contact resistance	
Cramp connection	$\leq 4 \text{ m}\Omega$
Contacts / Material	
Sockets and plug-in contact	Copper alloy
Surface	Passivated silver, or 0.8 μm gold on 2 μm nickel
Cramp connection	
- Flexible conductor connection	0.5 - 4 mm ² (AWG 20 ... 12)
- Stripping length	7.5 mm
Clamping torque	
- Screw connection	
SD blades	
- Screw connection	
- Push in	
- Tension clamp connection	
PE connection	
- Clamping range	0.5 ... 4 mm ²
- Solid / stranded	0.5 ... 4 mm ² / 0.5 ... 4 mm ²
- flexible / flexible with wire end ferrule, DIN 46228 pt 1	0.5 ... 4 mm ² / 0.5 ... 4 mm ²
- AWG conductor	AWG 20 ... 12
- Stripping length	10 mm
- Clamping torque	1.2 ... 1.5 Nm
- Blade dimensions	SD 0.8 x 4 mm or PZ 1

Note: Switch off power supply before handling plug-in connectors.

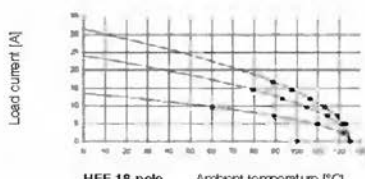
If cramped with a 4 mm² conductor, the current rating is:

For HEE 10 = 31 A, for HEE 18 = 28 A, for HEE 32 for 46 poles = 26 A

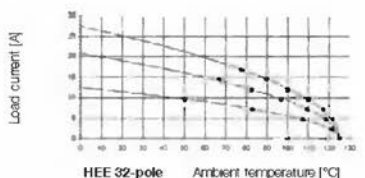
Rating curves



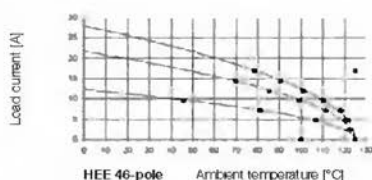
HEE 10-pole Ambient temperature [°C]



HEE 18-pole Ambient temperature [°C]















HEE 32-pole Ambient temperature [°C]



HEE 46-pole Ambient temperature [°C]

Curve a: 0.5 mm² conductor
Curve b: 2.5 mm² conductor
Curve c: 4.0 mm² conductor

Overview

		Rated voltage	Rated current	No. of poles	Tension clamp connection	Screw conn. with wire guard spring	Crimp connection	Push In	Axial screw connection	Page
		500 V	16 A	10 + 			•			B.32
		500 V	16 A	18 + 			•			B.34
		500 V	16 A	32 + 			•			B.36
		500 V	16 A	46 + 			•			B.38

HEE series - high contact density

500 V, 16 A, Size 3

10 + 

Inserts

Crimp connection



Insert	Designation	Order No.
Male	HDC HEE 10 SCM	1826830000
Female	HDC HEE 10 BCM	1826840000



Dimensions

Male



Female

Arrangement of contacts

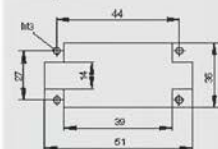
Male



Female



Mounting cut-out



Accessories

Crimp contacts

Surface silver



Surface gold



Qty.	Male	Order No.	Female	Order No.
100	HDC-C-HE-SM0 5AG	1200500000	HDC-C-HE-BM0 5AG	1201100000
100	HDC-C-HE-SM0 75-1AG	1200600000	HDC-C-HE-BM0 75-1AG	1201200000
100	HDC-C-HE-SM1 5AG	1200700000	HDC-C-HE-BM1 5AG	1201300000
100	HDC-C-HE-SM2 5AG	1200800000	HDC-C-HE-BM2 5AG	1201400000
100	HDC-C-HE-SM4 0AG	1200900000	HDC-C-HE-BM4 0AG	1201500000

Qty.	Male	Order No.	Female	Order No.
100	HDC-C-HE-SM0 5AU	1651420000	HDC-C-HE-BM0 5AU	1651470000
100	HDC-C-HE-SM0 75-1AU	1651430000	HDC-C-HE-BM0 75-1AU	1651480000
100	HDC-C-HE-SM1 5AU	1651440000	HDC-C-HE-BM1 5AU	1651490000
100	HDC-C-HE-SM2 5AU	1651450000	HDC-C-HE-BM2 5AU	1651500000
100	HDC-C-HE-SM4 0AU	1651460000	HDC-C-HE-BM4 0AU	1651510000



Single contacts

Conductor mm ²	AWG No.
0.50	20
0.75-1.00	18
1.50	16
2.50	14
4.00	12

Tools



Tool	Order No.
Crimping tool CTX Gm 1 6/2 5	9018490000
Contact removal tool Removal Tool HE	1866750000

Selection of Housings RockStar® IP65 Size 3

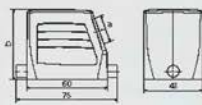


Hood

Hood, Cable Entry sideways



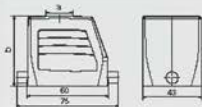
a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread		52	HDC 06B TSLU 1M20G	1788100000
M 20	with thread		52	HDC 06B TSLU 1M20G	1805930000
M 25	with thread		52	HDC 06B TSLU 1M25G	1783090000
M 25	with thread		72	HDC 16D TSLU 1M25G	1787480000



Hood, Cable Entry at top



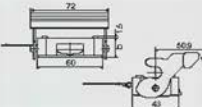
a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread		52	HDC 06B TOLU 1M20G	1788120000
M 25	with thread		52	HDC 06B TOLU 1M25G	1788110000
M 25	with thread		72	HDC 16D TOLU 1M25G	1787500000
M 32	with thread		72	HDC 16D TOLU 1M32G	1787490000



Cover



Version	Designation	Order No.
for hoods	HDC 06B DMCL 1LB	1665210000

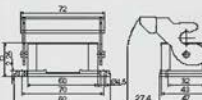


Base

Bulkhead housing



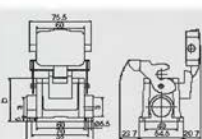
Version	Cover	b (mm)	Designation	Order No.
		29	HDC 06B ALLU	1202100000
	with cover	47	HDC 06B ADLU	1202500000



Base housing



a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread		54	HDC 06B SLU 2M20G	1788140000
M 20	with thread	with cover	72	HDC 06B SCLU 2M20G	1788170000
M 25	with thread		54	HDC 06B SLU 2M25G	1788150000
M 25	with thread	with cover	72	HDC 06B SCLU 2M25G	1788160000



Cover



Version	Designation	Order No.
for bases	HDC 06B DCDL 2B0	1665200000



HEE series - high contact density

500 V, 16 A, Size 4

18 + 

Inserts

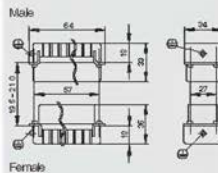
Crimp connection



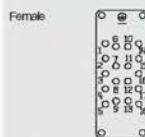
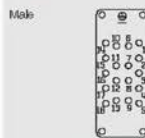
Insert	Designation	Order No.
Male	HDC HEE 18 SCM	1826810000
Female	HDC HEE 18 BCM	1826820000



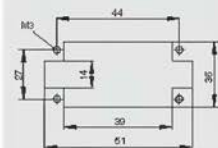
Dimensions



Arrangement of contacts



Mounting cut-out



Accessories

Crimp contacts

Surface silver



Qty.	Male	Order No.	Female	Order No.
100	HDC-C-HE-SM0 5AG	1200500000	HDC-C-HE-BM0 5AG	1201100000
100	HDC-C-HE-SM0 75-1AG	1200600000	HDC-C-HE-BM0 75-1AG	1201200000
100	HDC-C-HE-SM1 5AG	1200700000	HDC-C-HE-BM1 5AG	1201300000
100	HDC-C-HE-SM2 5AG	1200800000	HDC-C-HE-BM2 5AG	1201400000
100	HDC-C-HE-SM4 0AG	1200900000	HDC-C-HE-BM4 0AG	1201500000

Surface gold



100	HDC-C-HE-SM0 5AU	1651420000	HDC-C-HE-BM0 5AU	1651470000
100	HDC-C-HE-SM0 75-1AU	1651430000	HDC-C-HE-BM0 75-1AU	1651480000
100	HDC-C-HE-SM1 5AU	1651440000	HDC-C-HE-BM1 5AU	1651490000
100	HDC-C-HE-SM2 5AU	1651450000	HDC-C-HE-BM2 5AU	1651500000
100	HDC-C-HE-SM4 0AU	1651460000	HDC-C-HE-BM4 0AU	1651510000



Single contacts	AWG No.
Conductor mm ²	
0.50	20
0.75-1.00	18
1.50	16
2.50	14
4.00	12

Tools



Tool	Order No.
Crimping tool CTX Gm 1 6/2 5	9018490000
Contact removal tool Removal Tool HE	1866750000

Selection of Housings RockStar® IP65 Size 4

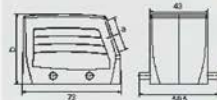


Hood

Hood, Cable Entry sideways



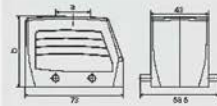
a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread		52	HDC 10B TSBU 1M20G	1787560000
M 25	with thread		52	HDC 10B TSBU 1M25G	1787560000
M 25	with thread		72	HDC 24D TSBU 1M25G	1787240000
M 32	with thread		72	HDC 24D TSBU 1M32G	1787230000



Hood, Cable Entry at top



a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread		52	HDC 10B TCBU 1M20G	1787590000
M 25	with thread		52	HDC 10B TCBU 1M25G	1787590000
M 25	with thread		72	HDC 24D TCBU 1M25G	1787390000
M 32	with thread		72	HDC 24D TCBU 1M32G	1787290000



Cover



Version	Designation	Order No.
for hoods	HDC 10B DMDQ 2QB	1665240000

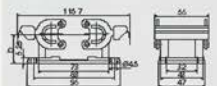


Base

Bulkhead housing



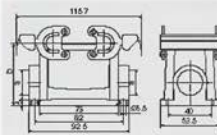
Version	Cover	b (mm)	Designation	Order No.
		29.3	HDC 10B ABU	1205000000



Base housing



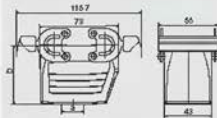
a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread		57	HDC 10B SBU 2M20G	1787640000
M 25	with thread		57	HDC 10B SBU 2M25G	1787630000
M 25	with thread		74	HDC 24D SBU 2M25G	1787350000
M 32	with thread		74	HDC 24D SBU 2M32G	1787360000



Coupling hood



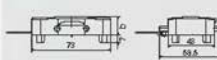
a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread		56	HDC 10B KBU 1M20G	1787720000



Cover



Version	Designation	Order No.
for bases	HDC 10B DCDQ 4BO	1665230000



HEE series - high contact density

500 V, 16 A, Size 6

32 + 

Inserts

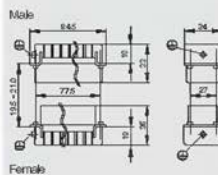
Crimp connection



Insert	Designation	Order No.
Male	HDC HEE 32 SCM	1826790000
Female	HDC HEE 32 BCM	1826800000



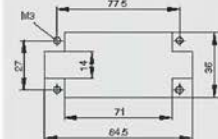
Dimensions



Arrangement of contacts



Mounting cut-out



Accessories

Crimp contacts

Surface silver



Qty.	Male	Order No.	Female	Order No.
100	HDC-C-HE-SM0 5AG	1200500000	HDC-C-HE-EM0 5AG	1201100000
100	HDC-C-HE-SM0 75-1AG	1200600000	HDC-C-HE-EM0 75-1AG	1201200000
100	HDC-C-HE-SM1 5AG	1200700000	HDC-C-HE-EM1 5AG	1201300000
100	HDC-C-HE-SM2 5AG	1200800000	HDC-C-HE-EM2 5AG	1201400000
100	HDC-C-HE-SM4 0AG	1200900000	HDC-C-HE-EM4 0AG	1201500000

Surface gold



100	HDC-C-HE-SM0 5AU	1651420000	HDC-C-HE-EM0 5AU	1651470000
100	HDC-C-HE-SM0 75-1AU	1651430000	HDC-C-HE-EM0 75-1AU	1651480000
100	HDC-C-HE-SM1 5AU	1651440000	HDC-C-HE-EM1 5AU	1651490000
100	HDC-C-HE-SM2 5AU	1651450000	HDC-C-HE-EM2 5AU	1651500000
100	HDC-C-HE-SM4 0AU	1651460000	HDC-C-HE-EM4 0AU	1651510000



Single contacts	AWG No.
Conductor mm ²	
0.50	20
0.75-1.00	18
1.50	16
2.50	14
4.00	12

Tools



Crimping tool	Order No.
CTX Gm 1 6/2 5	9018490000
Contact removal tool	Order No.
Removal Tool HE	1866750000

Selection of Housings RockStar® IP65 Size 6



Hood

Hood, Cable Entry sideways



a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		61	HDC 16B TSBU 1M25G	1782180000
M 25	with thread		76	HDC 40D TSBU 1M25G	1787010000
M 32	with thread		76	HDC 40D TSBU 1M32G	1787000000



Hood, Cable Entry at top



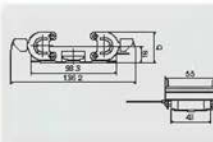
a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		61	HDC 16B TCBU 1M25G	1782210000
M 25	with thread		76	HDC 40D TCBU 1M25G	1787070000
M 32	with thread		76	HDC 40D TCBU 1M32G	1787060000



Cover



Version	Designation	Order No.
for hoods	HDC 16B DMDQ 2QB	1665270000

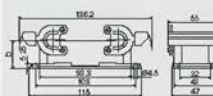


Base

Bulkhead housing



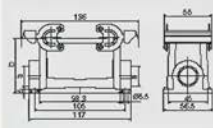
Version	Cover	b (mm)	Designation	Order No.
		29	HDC 16B ABU	1209600000



Base housing



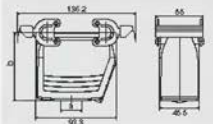
a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		64	HDC 16B SBU 2M25G	1782240000
M 25	with thread		84	HDC 40D SBU 2M25G	1787120000
M 32	with thread		84	HDC 40D SBU 2M32G	1787110000



Coupling hood



a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		79	HDC 40D RBU 1M25G	1787200000
M 32	with thread		79	HDC 40D RBU 1M32G	1787190000



Cover



Version	Designation	Order No.
for bases	HDC 16B DCDQ 4BO	1665260000



HEE series - high contact density

500 V, 16 A, Size 8

46 + 

Inserts

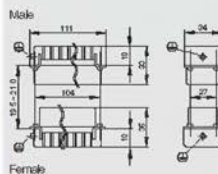
Crimp connection



Insert	Designation	Order No.
Male	HDC HEE 46 SCM	1826770000
Female	HDC HEE 46 BCM	1826780000



Dimensions



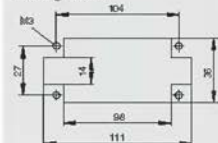
Male

Female

Arrangement of contacts



Mounting cut-out



Accessories

Crimp contacts

Surface silver



Surface gold



Qty.	Male	Order No.	Female	Order No.
100	HDC-C-HE-SM0 5AG	1200500000	HDC-C-HE-EM0 5AG	1201100000
100	HDC-C-HE-SM0 75-1AG	1200600000	HDC-C-HE-EM0 75-1AG	1201200000
100	HDC-C-HE-SM1 5AG	1200700000	HDC-C-HE-EM1 5AG	1201300000
100	HDC-C-HE-SM2 5AG	1200800000	HDC-C-HE-EM2 5AG	1201400000
100	HDC-C-HE-SM4 0AG	1200900000	HDC-C-HE-EM4 0AG	1201500000

Qty.	Male	Order No.	Female	Order No.
100	HDC-C-HE-SM0 5AU	1651420000	HDC-C-HE-EM0 5AU	1651470000
100	HDC-C-HE-SM0 75-1AU	1651430000	HDC-C-HE-EM0 75-1AU	1651480000
100	HDC-C-HE-SM1 5AU	1651440000	HDC-C-HE-EM1 5AU	1651490000
100	HDC-C-HE-SM2 5AU	1651450000	HDC-C-HE-EM2 5AU	1651500000
100	HDC-C-HE-SM4 0AU	1651460000	HDC-C-HE-EM4 0AU	1651510000



Single contacts	AWG No.
0.50	20
0.75-1.00	18
1.50	16
2.50	14
4.00	12

Tools

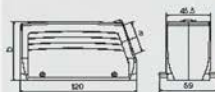


Crimping tool	Order No.
CTX Gm 1 6/2 5	9018490000
Contact removal tool	Order No.
Removal Tool HE	1866750000

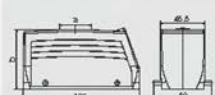
**Selection of Housings RockStar® IP65
Size 8**

Hood
Hood, Cable Entry sideways

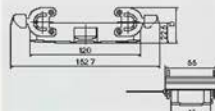

a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		61	HDC 24B TSBU 1M25G	1787760000
M 32	with thread		61	HDC 24B TSBU 1M32G	1787750000
M 25	with thread		76	HDC 64D TSBU 1M25G	1786780000
M 32	with thread		76	HDC 64D TSBU 1M32G	1786770000


Hood, Cable Entry at top

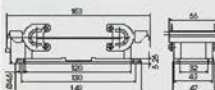

a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		61	HDC 24B TCBU 1M25G	1787820000
M 32	with thread		61	HDC 24B TCBU 1M32G	1787810000
M 32	with thread		76	HDC 64D TCBU 1M32G	1786830000


Cover

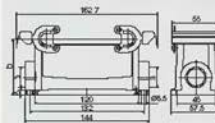

Version	Designation	Order No.
for hoods	HDC 24B DMDQ 2QB	1665640000


Base
Bulkhead housing

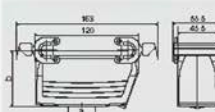

Version	Cover	b (mm)	Designation	Order No.
		29.3	HDC 24B ABU	t212400000


Base housing


a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		64	HDC 24B SBU 2M25G	1787870000
M 25	with thread		84	HDC 64D SBU 2M25G	1786890000
M 32	with thread		84	HDC 64D SBU 2M32G	1786830000


Coupling hood


a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		66	HDC 24B KBU 1M25G	1787920000
M 32	with thread		79	HDC 64D KBU 1M32G	1786960000


Cover


Version	Designation	Order No.
for bases	HDC 24B DCDQ 4BO	1665630000



HD series – the flexible connectors

The HD series has a high contact density and is therefore particularly suitable for signal processing. The HD insert can be fitted with turned crimp contacts or fibre optic contacts – impressive flexibility.

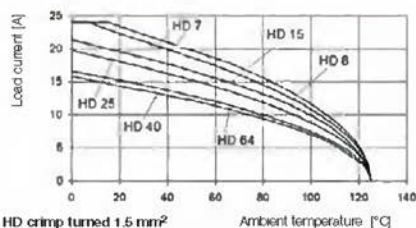


Technical data

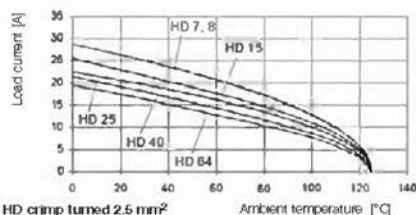
Standards / approvals	
Standards	DIN EN 61984 DIN EN 60664-1
Approvals	UL/CSA
Inserts	
No. of poles	7, 15, 16, 20, 25, 40, 50, 64, 80, 124 (+PE), 8
Rated voltage	250 V
Rated voltage to UL/CSA	600 V
Rated current	10 A
Rated impulse withstand voltage	4 kV
Pollution severity	3
Insulation resistance	$\geq 10^9 \Omega$
Material	Glass-fibre reinforced PC (in UL list and approved for railway applications)
Temperature range	-40 °C ... +125 °C
Flammability to UL 94	V-0
Mechanical service life	
- Plugging cycles Ag - Surface	≥ 500
- Plugging cycles Au - Surface	≥ 500
Contact resistance	
- Crimp connection	$\leq 4 \text{ m}\Omega$
Contacts / Material	
Sockets and plug-in contact	Copper alloy
Surface	Passivated silver, or 0.8 μm gold on 2 μm nickel
Crimp connection	
- Flexible conductor connection	0.14 - 2.5 mm ² (AWG 26 ... 14)
- Stripping length	8.0 mm
Clamping torque	
- Screw connection	
SD blades	
- Screw connection	
- Push in	
- Tension clamp connection	
FE connection	
- Clamping range	0.5 ... 2.5 mm ²
- solid / stranded	0.5 ... 2.5 mm ² / 0.5 ... 2.5 mm ²
- flexible / flexible with	
wire end ferrule, DIN 46228 pt. 1	0.5 ... 2.5 mm ² / 0.5 ... 2.5 mm ²
- AWG conductor	AWG 20 ... 14
- Stripping length	10 mm
- Clamping torque	1.2 ... 1.6 Nm
- Blade dimensions	SD 0.8 x 4 mm or PZ 1

Note: Technical data: Earthing via screw connection for inserts with ≥ 15 poles. Switch off power supply before handling plug-in connectors.
When using metal housings together with the HD 7 and HD 8 inserts, the voltage rating must be limited to 42 V. The HD 8 has no earthing terminal.

Derating curves

























HD crimp turned 1.5 mm²



HD crimp turned 2.5 mm²

Overview

		Rated voltage	Rated current	No. of poles	Tension clamp connection	Screw conn. with wire guard spring	Crimp connection	Push In	Axial screw connection	Page
		250 V	10 A	7 + ⊕			•			B.42
		250 V	10 A	8			•			B.44
		250 V	10 A	15 + ⊕			•			B.46
		250 V	10 A	16 + ⊕			•			B.48
		250 V	10 A	24 + ⊕			•			B.50
		250 V	10 A	25 + ⊕			•			B.52
		250 V	10 A	40 + ⊕			•			B.54
		250 V	10 A	50 + ⊕			•			B.56
		250 V	10 A	64 + ⊕			•			B.58
		250 V	10 A	80 + ⊕			•			B.60
		250 V	10 A	128 + ⊕			•			B.62

HD series - the flexible connectors

250 V, 10 A, Size 1

7 + 

Inserts

Crimp connection

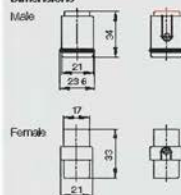


Insert	Designation	Order No.
Male	HDC HD 7 MC	1650570000
Female	HDC HD 7 FC	1650630000

Note Reduce the voltage to 42V when using a metal housing



Dimensions



Arrangement of contacts



Accessories

Crimp contacts

Surface silver



Qty.	Male	Order No.	Female	Order No.
100	HDC-C-HD-SM0 14-0-37AG	1651520000	HDC-C-HD-EM0 14-0-37AG	1651570000
100	HDC-C-HD-SM0 5AG	1651530000	HDC-C-HD-EM0 5AG	1651580000
100	HDC-C-HD-SM0 75-1AG	1601750000	HDC-C-HD-EM0 75-1AG	1601760000
100	HDC-C-HD-SM1 5AG	1651550000	HDC-C-HD-EM1 5AG	1651600000
100	HDC-C-HD-SM2 5AG	1651560000	HDC-C-HD-EM2 5AG	1651610000

Surface gold



100	HDC-C-HD-SM0 14-0-37AU	1651620000	HDC-C-HD-EM0 14-0-37AU	1651670000
100	HDC-C-HD-SM0 5AU	1651630000	HDC-C-HD-EM0 5AU	1651680000
100	HDC-C-HD-SM0 75-1AU	1651640000	HDC-C-HD-EM0 75-1AU	1651690000
100	HDC-C-HD-SM1 5AU	1651650000	HDC-C-HD-EM1 5AU	1651700000
100	HDC-C-HD-SM2 5AU	1651660000	HDC-C-HD-EM2 5AU	1651710000

Tools



Tool	Order No.
Crimping tool CTX Cm 1 6/2 5	9018490000
Contact removal tool Removal Tool HD	1666730000



Single contacts	AWG No.
Conductor mm ²	
0.14 - 0.37	22
0.50	20
0.75 - 1.00	18
1.50	16
2.50	14

Selection of Housings RockStar® IP65 Size 1



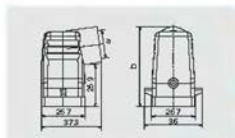
Hood

material: Diecast aluminum

Hood, Cable Entry sideways



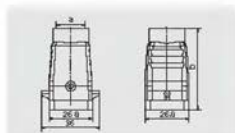
a	Version	Cover	b (mm)	Designation	Order No.
M 20		with thread	49.2	HDC 04A TWLU 1M20G	1783310000



Hood, Cable Entry at top



a	Version	Cover	b (mm)	Designation	Order No.
M 20		with thread	50	HDC 04A TCLU 1M20G	1783320000

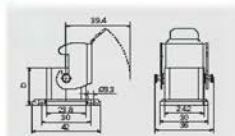


Base

Bulldoz housing



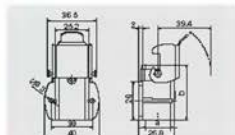
a	Version	Cover	b (mm)	Designation	Order No.
M 20		with thread	23	HDC 04A ALU	1497600000



Base housing



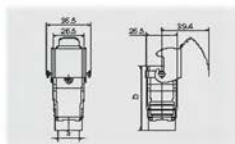
a	Version	Cover	b (mm)	Designation	Order No.
M 20		with thread	25.8	HDC 04A SLU 1M20G	1783330000



Coupling hood



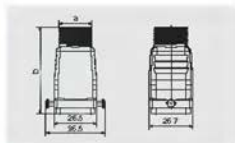
a	Version	Cover	b (mm)	Designation	Order No.
M 20		with thread	53.5	HDC 04A KCLU 1M20G	1783340000



Screw Mounting Housing



a	Version	Cover	b (mm)	Designation	Order No.
M 20		with thread	54	HDC 04A ELU 1M20G	1900320000
PG 13,5		with thread	54	HDC 04A ELU 1PG13G	1900330000
PG 13,5		with thread	54	HDC 04A ELU 1PG13G EXT	1900350000



Cover



a	Version	Designation	Order No.
	for female insert	HDC 04A DM(L) 2BO	1665750000
	for male insert	HDC 04A DDDL 2BO	1665740000



HD series - the flexible connectors

250 V, 10 A, Size 1

8

Inserts

Crimp connection

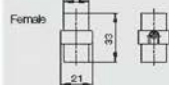
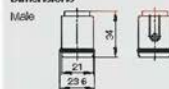


Insert	Designation	Order No.
Male	HDC HD 8 MC	1650690000
Female	HDC HD 8 FC	1650690000

Note Reduce the voltage to 42V when using a metal housing



Dimensions



Arrangement of contacts



Accessories

Crimp contacts

Surface silver



Surface gold



Qty.	Male	Order No.	Female	Order No.
100	HDC-C-HD-SM0 14-0-37AG	1651520000	HDC-C-HD-EM0 14-0-37AG	1651570000
100	HDC-C-HD-SM0 5AG	1651530000	HDC-C-HD-EM0 5AG	1651580000
100	HDC-C-HD-SM0 75-1AG	1601750000	HDC-C-HD-EM0 75-1AG	1601760000
100	HDC-C-HD-SM1 5AG	1651550000	HDC-C-HD-EM1 5AG	1651600000
100	HDC-C-HD-SM2 5AG	1651560000	HDC-C-HD-EM2 5AG	1651610000

Qty.	Male	Order No.	Female	Order No.
100	HDC-C-HD-SM0 14-0-37AU	1651620000	HDC-C-HD-EM0 14-0-37AU	1651670000
100	HDC-C-HD-SM0 5AU	1651630000	HDC-C-HD-EM0 5AU	1651680000
100	HDC-C-HD-SM0 75-1AU	1651640000	HDC-C-HD-EM0 75-1AU	1651690000
100	HDC-C-HD-SM1 5AU	1651650000	HDC-C-HD-EM1 5AU	1651700000
100	HDC-C-HD-SM2 5AU	1651660000	HDC-C-HD-EM2 5AU	1651710000



Single contacts

Conductor mm ²	AWG No.
0.14 - 0.37	22
0.50	20
0.75 - 1.00	18
1.50	16
2.50	14

Tools



Tool	Order No.
Crimping tool CTX Cm 1 6/2 5	9018490000
Contact removal tool Removal Tool HD	1666730000

Selection of Housings RockStar® IP65
Size 1



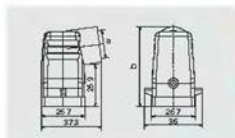
Hood

material: Diecast aluminum

Hood, Cable Entry sideways



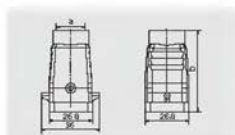
a	Version	Cover	b (mm)	Designation	Order No.
M 20		with thread	49.2	HDC 04A TWLU 1M20G	1783310000



Hood, Cable Entry at top



a	Version	Cover	b (mm)	Designation	Order No.
M 20		with thread	50	HDC 04A TCLU 1M20G	1783320000

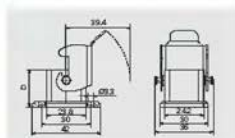


Base

Bulldog housing



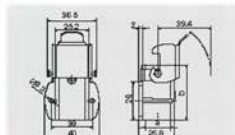
a	Version	Cover	b (mm)	Designation	Order No.
M 20		with thread	23	HDC 04A ALU	1497600000



Base housing



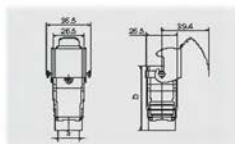
a	Version	Cover	b (mm)	Designation	Order No.
M 20		with thread	25.8	HDC 04A SLU 1M20G	1783330000



Coupling hood



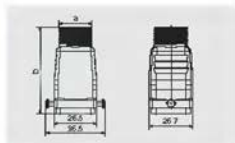
a	Version	Cover	b (mm)	Designation	Order No.
M 20		with thread	53.5	HDC 04A KCLU 1M20G	1783340000



Screw Mounting Housing



a	Version	Cover	b (mm)	Designation	Order No.
M 20		with thread	54	HDC 04A ELU 1M20G	1900320000
PG 13,5		with thread	54	HDC 04A ELU 1PG13G	1900330000
PG 13,5		with thread	54	HDC 04A ELU 1PG13G EXT	1900350000



Cover



a	Version	Designation	Order No.
	for female insert	HDC 04A DM(DL) 2BO	1665750000
	for male insert	HDC 04A DDDL 2BO	1665740000



HD series - the flexible connectors

250 V, 10 A, Size 2

15 + 

Inserts

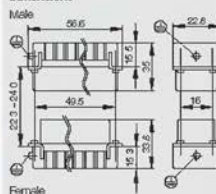
Crimp connection



Insert	Designation	Order No.
Female	HDC HD 16 FC	165090000
Male	HDC HD 16 MC	1650850000



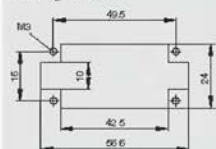
Dimensions



Arrangement of contacts



Mounting cut-out



Accessories

Crimp contacts

Surface silver



Surface gold



Qty.	Male	Order No.	Female	Order No.
100	HDC-C-HD-SM0 14-0-37AG	1651520000	HDC-C-HD-EM0 14-0-37AG	1651570000
100	HDC-C-HD-SM0 5AG	1651530000	HDC-C-HD-EM0 5AG	1651580000
100	HDC-C-HD-SM0 75-1AG	1601750000	HDC-C-HD-EM0 75-1AG	1601760000
100	HDC-C-HD-SM1 5AG	1651550000	HDC-C-HD-EM1 5AG	1651600000
100	HDC-C-HD-SM2 5AG	1651560000	HDC-C-HD-EM2 5AG	1651610000
100	HDC-C-HD-SM0 14-0-37AU	1651620000	HDC-C-HD-EM0 14-0-37AU	1651670000
100	HDC-C-HD-SM0 5AU	1651630000	HDC-C-HD-EM0 5AU	1651680000
100	HDC-C-HD-SM0 75-1AU	1651640000	HDC-C-HD-EM0 75-1AU	1651690000
100	HDC-C-HD-SM1 5AU	1651650000	HDC-C-HD-EM1 5AU	1651700000
100	HDC-C-HD-SM2 5AU	1651660000	HDC-C-HD-EM2 5AU	1651710000



Single contacts

Conductor mm ²	AWG No.
0.14 - 0.37	22
0.50	20
0.75 - 1.00	18
1.50	16
2.50	14

Tools



Tool	Order No.
Crimping tool CTX Cm 1 6/2 5	9018490000
Contact removal tool Removal Tool HD	1666730000

Selection of Housings RockStar® IP65 Size 2

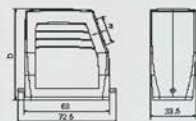


Hood

Hood, Cable Entry sideways



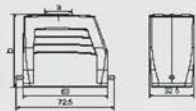
a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread		68	HDC 15A TSLU 1M20G	1788860000
M 25	with thread		68	HDC 15A TSLU 1M25G	1788850000



Hood, Cable Entry at top



a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread		64	HDC 10A TCLU 1M20G	1789620000
M 25	with thread		64	HDC 10A TCLU 1M25G	1789610000



Cover



Version	Designation	Order No.
for hoods	HDC 10A DDDL 1LB	1665890000

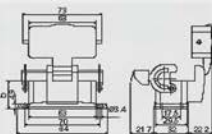


Base

Bulkhead housing



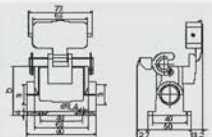
Version	Cover	b (mm)	Designation	Order No.
	with cover	37.5	HDC 10A ADLU	1664060000
		25	HDC 10A ALU	1664040000



Base housing



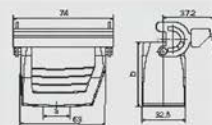
a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread	with cover	69.5	HDC 10A SDLU 2M20G	1789680000
M 25	with thread	with cover	69.5	HDC 10A SDLU 2M25G	1789650000
M 20	with thread		57	HDC 10A SLU 2M20G	1789640000
M 25	with thread		57	HDC 10A SLU 2M25G	1789630000



Coupling hood



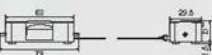
a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		48	HDC 10A KLU 1M25G	1789670000



Cover



Version	Designation	Order No.
for bases	HDC 10A DMDL 2B0	1665880000



HD series - the flexible connectors

250 V, 10 A, Size 3

16 + 

Inserts

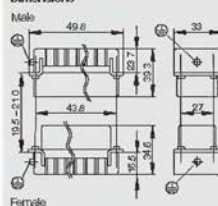
Crimp connection



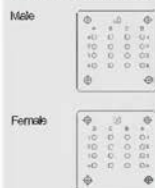
Insert	Designation	Order No.
Male	HDC HD 16 MC	1650710000
Female	HDC HD 16 FC	1650720000



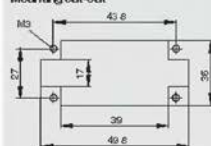
Dimensions



Arrangement of contacts



Mounting cut-out



Accessories

Crimp contacts

Surface silver



Surface gold



Qty.	Male	Order No.	Female	Order No.
100	HDC-C-HD-SM0 14-0-37AG	1651520000	HDC-C-HD-EM0 14-0-37AG	1651570000
100	HDC-C-HD-SM0 5AG	1651530000	HDC-C-HD-EM0 5AG	1651580000
100	HDC-C-HD-SM0 75-1AG	1601750000	HDC-C-HD-EM0 75-1AG	1601760000
100	HDC-C-HD-SM1 5AG	1651550000	HDC-C-HD-EM1 5AG	1651600000
100	HDC-C-HD-SM2 5AG	1651560000	HDC-C-HD-EM2 5AG	1651610000

Qty.	Male	Order No.	Female	Order No.
100	HDC-C-HD-SM0 14-0-37AU	1651620000	HDC-C-HD-EM0 14-0-37AU	1651670000
100	HDC-C-HD-SM0 5AU	1651630000	HDC-C-HD-EM0 5AU	1651680000
100	HDC-C-HD-SM0 75-1AU	1651640000	HDC-C-HD-EM0 75-1AU	1651690000
100	HDC-C-HD-SM1 5AU	1651650000	HDC-C-HD-EM1 5AU	1651700000
100	HDC-C-HD-SM2 5AU	1651660000	HDC-C-HD-EM2 5AU	1651710000



Single contacts

Conductor mm ²	AWG No.
0.14 - 0.37	22
0.50	20
0.75 - 1.00	18
1.50	16
2.50	14

Tools



Tool	Order No.
Crimping tool CTX Cm 1 6/2 5	9018490000
Contact removal tool Removal Tool HD	1666730000

Selection of Housings RockStar® IP65 Size 3

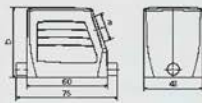


Hood

Hood, Cable Entry sideways



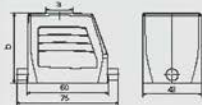
a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread		52	HDC 06B TSLU 1M20G	t788t00000
M 20	with thread		52	HDC 06B TSLU 1M20G	t805930000
M 25	with thread		52	HDC 06B TSLU 1M25G	t788t30000
M 25	with thread		72	HDC 16D TSLU 1M25G	t787430000



Hood, Cable Entry at top



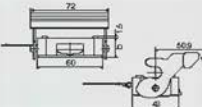
a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread		52	HDC 06B TOLU 1M20G	t788t20000
M 25	with thread		52	HDC 06B TOLU 1M25G	t788t10000
M 25	with thread		72	HDC 16D TOLU 1M25G	t787500000
M 32	with thread		72	HDC 16D TOLU 1M32G	t787490000



Cover



Version	Designation	Order No.
for hoods	HDC 06B DMCL 1LB	t665210000

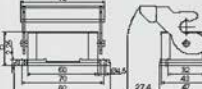


Base

Bulkhead housing



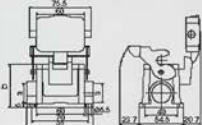
Version	Cover	b (mm)	Designation	Order No.
		29	HDC 06B ALLU	t202100000
	with cover	47	HDC 06B ADLU	t202500000



Base housing



a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread		54	HDC 06B SLU 2M20G	t788t40000
M 20	with thread	with cover	72	HDC 06B SLDU 2M20G	t788t70000
M 25	with thread		54	HDC 06B SLU 2M25G	t788t30000
M 25	with thread	with cover	72	HDC 06B SLDU 2M25G	t788t60000



Cover



Version	Designation	Order No.
for bases	HDC 06B DCDL 2B0	t665200000



HD series - the flexible connectors

250 V, 10 A, Size 4

24 + 

Inserts

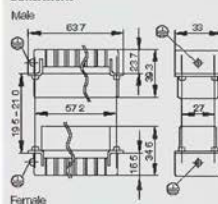


Crimp connection



Insert	Designation	Order No.
Male	HDC HD 24 MC	1650870000
Female	HDC HD 24 FC	1650990000

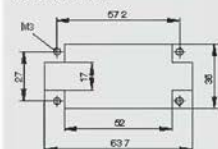
Dimensions



Arrangement of contacts



Mounting cut-out



Accessories

Crimp contacts

Surface silver



Surface gold



Qty.	Male	Order No.	Female	Order No.
100	HDC-C-HD-SM0 14-0 37AG	1651520000	HDC-C-HD-EM0 14-0 37AG	1651570000
100	HDC-C-HD-SM0 5AG	1651530000	HDC-C-HD-EM0 5AG	1651580000
100	HDC-C-HD-SM0 75-1AG	1601750000	HDC-C-HD-EM0 75-1AG	1601760000
100	HDC-C-HD-SM1 5AG	1651550000	HDC-C-HD-EM1 5AG	1651600000
100	HDC-C-HD-SM2 5AG	1651560000	HDC-C-HD-EM2 5AG	1651610000

Qty.	Male	Order No.	Female	Order No.
100	HDC-C-HD-SM0 14-0 37AU	1651620000	HDC-C-HD-EM0 14-0 37AU	1651670000
100	HDC-C-HD-SM0 5AU	1651630000	HDC-C-HD-EM0 5AU	1651680000
100	HDC-C-HD-SM0 75-1AU	1651640000	HDC-C-HD-EM0 75-1AU	1651690000
100	HDC-C-HD-SM1 5AU	1651650000	HDC-C-HD-EM1 5AU	1651700000
100	HDC-C-HD-SM2 5AU	1651660000	HDC-C-HD-EM2 5AU	1651710000



Single contacts

Conductor mm ²	AWG No.
0.14 - 0.37	22
0.50	20
0.75 - 1.00	18
1.50	16
2.50	14

Tools



Tool	Order No.
Crimping tool CTX Cm 1 6/2 5	9018490000
Contact removal tool Removal Tool HD	1666730000

Selection of Housings RockStar® IP65 Size 4

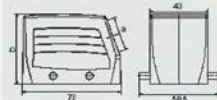


Hood

Hood, Cable Entry sideways



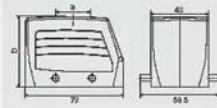
a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread		52	HDC 10B TSBU 1M20G	1787560000
M 25	with thread		52	HDC 10B TSBU 1M25G	1787560000
M 25	with thread		72	HDC 24D TSBU 1M25G	1787240000
M 32	with thread		72	HDC 24D TSBU 1M32G	1787230000



Hood, Cable Entry at top



a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread		52	HDC 10B TCBU 1M20G	1787590000
M 25	with thread		52	HDC 10B TCBU 1M25G	1787590000
M 25	with thread		72	HDC 24D TCBU 1M25G	1787390000
M 32	with thread		72	HDC 24D TCBU 1M32G	1787290000



Cover



Version	Designation	Order No.
for hoods	HDC 10B DMDQ 2QB	1665240000

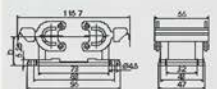


Base

Bulkhead housing



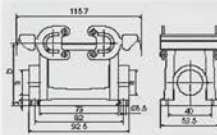
Version	Cover	b (mm)	Designation	Order No.
		29.3	HDC 10B ABU	1205000000



Base housing



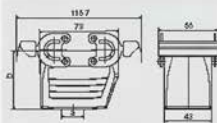
a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread		57	HDC 10B SBU 2M20G	1787640000
M 25	with thread		57	HDC 10B SBU 2M25G	1787630000
M 25	with thread		74	HDC 24D SBU 2M25G	1787350000
M 32	with thread		74	HDC 24D SBU 2M32G	1787360000



Coupling hood



a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread		56	HDC 10B KBU 1M20G	1787720000



Cover



Version	Designation	Order No.
for bases	HDC 10B DCDQ 4BO	1665230000



HD series - the flexible connectors

250 V, 10 A, Size 5

25 + 

Inserts

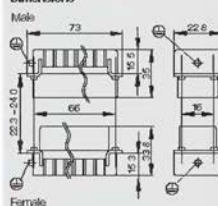
Crimp connection



Insert	Designation	Order No.
Male	HDC HD 25 MC	1650810000
Female	HDC HD 25 FC	1650820000



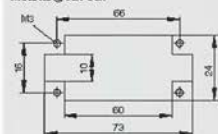
Dimensions



Arrangement of contacts



Mounting cut-out



Accessories

Crimp contacts

Surface silver



Qty.	Male	Order No.	Female	Order No.
100	HDC-C-HD-SM0 14-0 37AG	1651520000	HDC-C-HD-EM0 14-0 37AG	1651570000
100	HDC-C-HD-SM0 5AG	1651530000	HDC-C-HD-EM0 5AG	1651580000
100	HDC-C-HD-SM0 75-1AG	1601750000	HDC-C-HD-EM0 75-1AG	1601760000
100	HDC-C-HD-SM1 5AG	1651550000	HDC-C-HD-EM1 5AG	1651600000
100	HDC-C-HD-SM2 5AG	1651560000	HDC-C-HD-EM2 5AG	1651610000

Surface gold



100	HDC-C-HD-SM0 14-0 37AU	1651620000	HDC-C-HD-EM0 14-0 37AU	1651670000
100	HDC-C-HD-SM0 5AU	1651630000	HDC-C-HD-EM0 5AU	1651680000
100	HDC-C-HD-SM0 75-1AU	1651640000	HDC-C-HD-EM0 75-1AU	1651690000
100	HDC-C-HD-SM1 5AU	1651650000	HDC-C-HD-EM1 5AU	1651700000
100	HDC-C-HD-SM2 5AU	1651660000	HDC-C-HD-EM2 5AU	1651710000

Tools



Tool	Order No.
Crimping tool CTX Cm 1 6/2 5	9018490000
Contact removal tool Removal Tool HD	1666730000



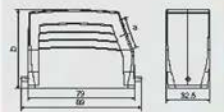
Single contacts

Conductor mm ²	AWG No.
0.14 - 0.37	22
0.50	20
0.75 - 1.00	18
1.50	16
2.50	14

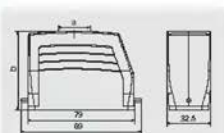
**Selection of Housings RockStar® IP65
Size 5**

Hood
Hood, Cable Entry sideways

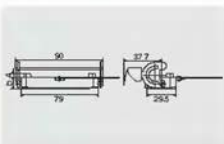

a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		58	HDC 16A TSLU 1M25G	1788740000
M 20	with thread		72	HDC 25A TSLU 1M20G	1788680000
M 25	with thread		72	HDC 25A TSLU 1M25G	1788690000


Hood, Cable Entry at top

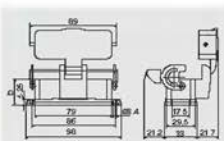

a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		58	HDC 16A TCLU 1M25G	1788750000
M 20	with thread		72	HDC 25A TCLU 1M20G	1788710000
M 25	with thread		72	HDC 25A TCLU 1M25G	1788700000


Cover

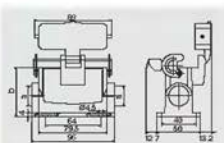

Version	Designation	Order No.
for hoods	HDC 16A DDDL 1LB	1665900000


Base
Bulkhead housing

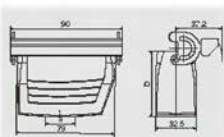

Version	Cover	b (mm)	Designation	Order No.
	with cover	44.5	HDC 16A ADLU	1664940000
		25	HDC 16A ALU	1664920000


Base housing

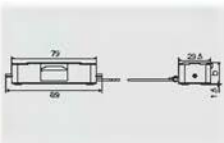

a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread	with cover	76.5	HDC 16A SDLU 2M20G	1788790000
M 25	with thread	with cover	76.5	HDC 16A SDLU 2M25G	1788780000
M 20	with thread		57	HDC 16A SLU 2M20G	1788770000
M 25	with thread		57	HDC 16A SLU 2M25G	1788760000


Coupling hood


a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		53	HDC 16A KLU 1M25G	1788800000


Cover


Version	Designation	Order No.
for bases	HDC 16A DMDL 2B0	1665910000



HD series - the flexible connectors

250 V, 10 A, Size 6

40 + 

Inserts

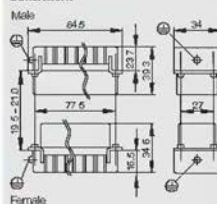
Crimp connection



Insert	Designation	Order No.
Male	HDC HD 40 MC	1601710000
Female	HDC HD 40 FG	1601730000



Dimensions



Arrangement of contacts

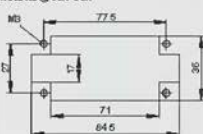
Male



Female



Mounting cut-out



Accessories

Crimp contacts

Surface silver



Surface gold



Qty.	Male	Order No.	Female	Order No.
100	HDC-C-HD-SM0 14-0-37AG	1651520000	HDC-C-HD-EM0 14-0-37AG	1651570000
100	HDC-C-HD-SM0 5AG	1651530000	HDC-C-HD-EM0 5AG	1651580000
100	HDC-C-HD-SM0 75-1AG	1601750000	HDC-C-HD-EM0 75-1AG	1601760000
100	HDC-C-HD-SM1 5AG	1651550000	HDC-C-HD-EM1 5AG	1651600000
100	HDC-C-HD-SM2 5AG	1651560000	HDC-C-HD-EM2 5AG	1651610000

Qty.	Male	Order No.	Female	Order No.
100	HDC-C-HD-SM0 14-0-37AU	1651620000	HDC-C-HD-EM0 14-0-37AU	1651670000
100	HDC-C-HD-SM0 5AU	1651630000	HDC-C-HD-EM0 5AU	1651680000
100	HDC-C-HD-SM0 75-1AU	1651640000	HDC-C-HD-EM0 75-1AU	1651690000
100	HDC-C-HD-SM1 5AU	1651650000	HDC-C-HD-EM1 5AU	1651700000
100	HDC-C-HD-SM2 5AU	1651660000	HDC-C-HD-EM2 5AU	1651710000



Single contacts

Conductor mm² AWG No.

0.14 - 0.37	22
0.50	20
0.75 - 1.00	18
1.50	16
2.50	14

Tools

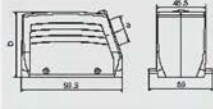


Tool	Order No.
Crimping tool CTX Cm 1 6/2 5	9018490000
Contact removal tool Removal Tool HD	1666730000

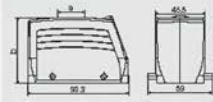
Selection of Housings RockStar® IP65
 Size 6

Hood
Hood, Cable Entry sideways

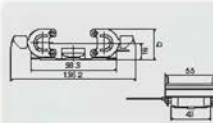

a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread	61	HDC 16B TSBU 1M25G	1782180000	
M 25	with thread	76	HDC 40D TSBU 1M25G	1787010000	
M 32	with thread	76	HDC 40D TSBU 1M32G	1787000000	


Hood, Cable Entry at top

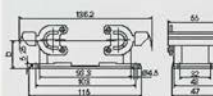

a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread	61	HDC 16B TCBU 1M25G	1782210000	
M 25	with thread	76	HDC 40D TCBU 1M25G	1787070000	
M 32	with thread	76	HDC 40D TCBU 1M32G	1787060000	


Cover

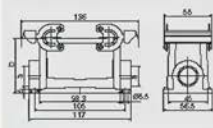

Version	Designation	Order No.
for hoods	HDC 16B DMDQ 2QB	1665270000


Base
Bulkhead housing

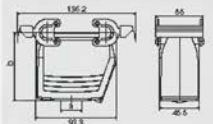

Version	Cover	b (mm)	Designation	Order No.
		29	HDC 16B ABU	1209600000


Base housing

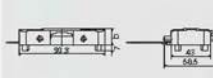

a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread	64	HDC 16B SBU 2M25G	1782240000	
M 25	with thread	84	HDC 40D SBU 2M25G	1787120000	
M 32	with thread	84	HDC 40D SBU 2M32G	1787110000	


Coupling hood


a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread	79	HDC 40D RBU 1M25G	1787200000	
M 32	with thread	79	HDC 40D RBU 1M32G	1787190000	


Cover


Version	Designation	Order No.
for bases	HDC 16B DCDQ 4BO	1665260000



HD series - the flexible connectors

250 V, 10 A, Size 7

50 + 

Inserts

Crimp connection

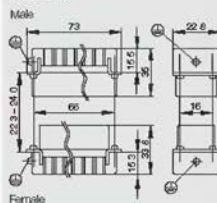


Insert	Designation	Order No.
Male	HDC HD 25 MC	1650810000
Female	HDC HD 25 FC	1650820000

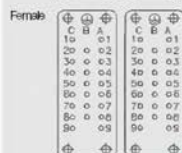
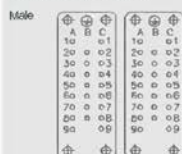
Note Please use the type of insert face to create 50 pole units



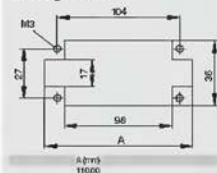
Dimensions



Arrangement of contacts



Mounting cut-out



Accessories

Crimp contacts

Surface silver



Surface gold



Qty.	Male	Order No.	Female	Order No.
100	HDC-C-HD-SM0 14-0.37AG	1651520000	HDC-C-HD-EM0 14-0.37AG	1651570000
100	HDC-C-HD-SM0 5AG	1651530000	HDC-C-HD-EM0 5AG	1651580000
100	HDC-C-HD-SM0 75-1AG	1601750000	HDC-C-HD-EM0 75-1AG	1601760000
100	HDC-C-HD-SM1 5AG	1651550000	HDC-C-HD-EM1 5AG	1651600000
100	HDC-C-HD-SM2 5AG	1651560000	HDC-C-HD-EM2 5AG	1651610000

Qty.	Male	Order No.	Female	Order No.
100	HDC-C-HD-SM0 14-0.37AU	1651620000	HDC-C-HD-EM0 14-0.37AU	1651670000
100	HDC-C-HD-SM0 5AU	1651630000	HDC-C-HD-EM0 5AU	1651680000
100	HDC-C-HD-SM0 75-1AU	1651640000	HDC-C-HD-EM0 75-1AU	1651690000
100	HDC-C-HD-SM1 5AU	1651650000	HDC-C-HD-EM1 5AU	1651700000
100	HDC-C-HD-SM2 5AU	1651660000	HDC-C-HD-EM2 5AU	1651710000



Single contacts

Conductor mm?	AWG No.
0.14 - 0.37	22
0.50	20
0.75 - 1.00	18
1.50	16
2.50	14

Tools



Crimping tool	Order No.
CTX Gm 1 6/2 5	9018490000
Contact removal tool	Order No.
Removal Tool HD	1666730000

Selection of Housings RockStar® IP65 Size 7

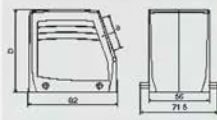


Hood

Hood, Cable Entry sideways



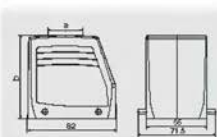
a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		75	HDC 32A TSEBU 1M25G	1787960000
M 32	with thread		75	HDC 32A TSEBU 1M32G	1787960000



Hood, Cable Entry at top



a	Version	Cover	b (mm)	Designation	Order No.
M 32	with thread		75	HDC 32A TCBU 1M32G	1787990000

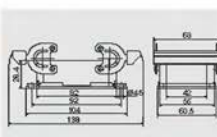


Base

Bulkhead housing



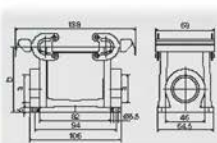
a	Version	Cover	b (mm)	Designation	Order No.
			25	HDC 32A ABU	1685860000



Base housing



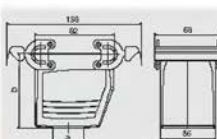
a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		75	HDC 32A SBU 2M25G	1788040000



Coupling hood



a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		76.5	HDC 32A KBU 1M25G	1788080000
M 32	with thread		76.5	HDC 32A KBU 1M32G	1788070000



HD series - the flexible connectors

250 V, 10 A, Size 8

64 + 

Inserts

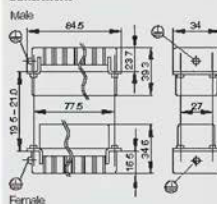
Crimp connection



Insert	Designation	Order No.
Male	HDC HD 64 MC	1601720000
Female	HDC HD 64 FC	1601740000



Dimensions



Arrangement of contacts

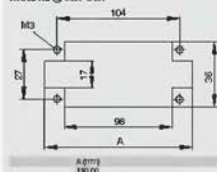
Male



Female



Mounting cut-out



Accessories

Crimp contacts

Surface silver



Surface gold



Qty.	Male	Order No.	Female	Order No.
100	HDC-C-HD-SM0 14-0-37AG	1651520000	HDC-C-HD-EM0 14-0-37AG	1651570000
100	HDC-C-HD-SM0 5AG	1651530000	HDC-C-HD-EM0 5AG	1651580000
100	HDC-C-HD-SM0 75-1AG	1601750000	HDC-C-HD-EM0 75-1AG	1601760000
100	HDC-C-HD-SM1 5AG	1651550000	HDC-C-HD-EM1 5AG	1651600000
100	HDC-C-HD-SM2 5AG	1651560000	HDC-C-HD-EM2 5AG	1651610000
100	HDC-C-HD-SM0 14-0-37AU	1651620000	HDC-C-HD-EM0 14-0-37AU	1651670000
100	HDC-C-HD-SM0 5AU	1651630000	HDC-C-HD-EM0 5AU	1651680000
100	HDC-C-HD-SM0 75-1AU	1651640000	HDC-C-HD-EM0 75-1AU	1651690000
100	HDC-C-HD-SM1 5AU	1651650000	HDC-C-HD-EM1 5AU	1651700000
100	HDC-C-HD-SM2 5AU	1651660000	HDC-C-HD-EM2 5AU	1651710000



Conductor mm²	AWG No.
0.14 - 0.37	22
0.50	20
0.75 - 1.00	18
1.50	16
2.50	14

Tools



Tool	Order No.
Crimping tool CTX Cm 1 6/2 5	9018490000
Contact removal tool Removal Tool HD	1666730000

Selection of Housings RockStar® IP65 Size 8

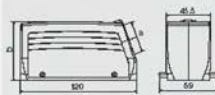


Hood

Hood, Cable Entry sideways



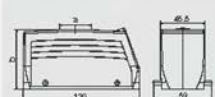
a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		61	HDC 24B TSBU 1M25G	1787760000
M 32	with thread		61	HDC 24B TSBU 1M32G	1787750000
M 25	with thread		76	HDC 64D TSBU 1M25G	1786780000
M 32	with thread		76	HDC 64D TSBU 1M32G	1786770000



Hood, Cable Entry at top



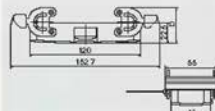
a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		61	HDC 24B TCBU 1M25G	1787820000
M 32	with thread		61	HDC 24B TCBU 1M32G	1787810000
M 32	with thread		76	HDC 64D TCBU 1M32G	1786830000



Cover



Version	Designation	Order No.
for hoods	HDC 24B DMDQ 2QB	1665640000

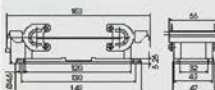


Base

Bulkhead housing



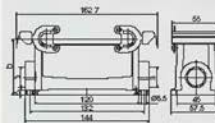
Version	Cover	b (mm)	Designation	Order No.
		29.3	HDC 24B ABU	t212400000



Base housing



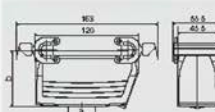
a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		64	HDC 24B SBU 2M25G	1787870000
M 25	with thread		84	HDC 64D SBU 2M25G	1786890000
M 32	with thread		84	HDC 64D SBU 2M32G	1786830000



Coupling hood



a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		66	HDC 24B KBU 1M25G	1787920000
M 32	with thread		79	HDC 64D KBU 1M32G	1786960000



Cover



Version	Designation	Order No.
for bases	HDC 24B DCDQ 4BO	1665630000



HD series - the flexible connectors

250 V, 10 A, Size 10

80 + 

Inserts

Crimp connection

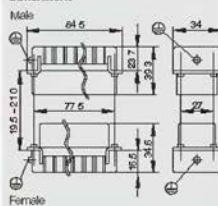


Insert	Designation	Order No.
Male	HDC HD 40 MC	1601710000
Female	HDC HD 40 FC	1601730000

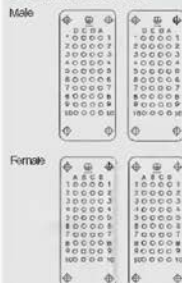
Note Please use the type of insert face to create 40 pole units



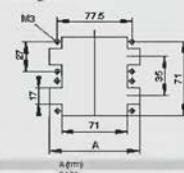
Dimensions



Arrangement of contacts



Mounting cut-out



Accessories

Crimp contacts

Surface silver



Surface gold



Qty.	Male	Order No.	Female	Order No.
100	HDC-C-HD-SM0 14-0-37AG	1651520000	HDC-C-HD-EM0 14-0-37AG	1651570000
100	HDC-C-HD-SM0 5AG	1651530000	HDC-C-HD-EM0 5AG	1651580000
100	HDC-C-HD-SM0 75-1AG	1601750000	HDC-C-HD-EM0 75-1AG	1601760000
100	HDC-C-HD-SM1 5AG	1651550000	HDC-C-HD-EM1 5AG	1651600000
100	HDC-C-HD-SM2 5AG	1651560000	HDC-C-HD-EM2 5AG	1651610000

100	HDC-C-HD-SM0 14-0-37AU	1651620000	HDC-C-HD-EM0 14-0-37AU	1651670000
100	HDC-C-HD-SM0 5AU	1651630000	HDC-C-HD-EM0 5AU	1651680000
100	HDC-C-HD-SM0 75-1AU	1651640000	HDC-C-HD-EM0 75-1AU	1651690000
100	HDC-C-HD-SM1 5AU	1651650000	HDC-C-HD-EM1 5AU	1651700000
100	HDC-C-HD-SM2 5AU	1651660000	HDC-C-HD-EM2 5AU	1651710000



Single contacts

Conductor mm ²	AWG No.
0.14 - 0.37	22
0.50	20
0.75 - 1.00	18
1.50	16
2.50	14

Tools

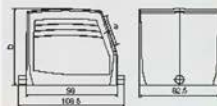


Tool	Order No.
Crimping tool CTX Crt 1 6/2 5	9018490000
Contact removal tool Removal Tool HD	1666730000

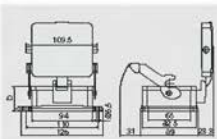
Selection of Housings RockStar® IP65
 Size 10

Hood
Hood, Cable Entry sideways

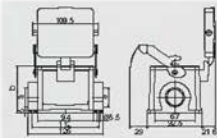

a	Version	Cover	b (mm)	Designation	Order No.
M 32	with thread		79	HDC 32B TSLU 1M32G	1788420000


Base
Bulkhead housing

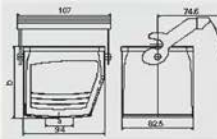

Version	Cover	b (mm)	Designation	Order No.
	with cover	55	HDC 32B ADLU	1219800000
		38	HDC 32B ALU	1219500000


Base housing


a	Version	Cover	b (mm)	Designation	Order No.
M 32	with thread	with cover	96	HDC 32B SLLU 2M32G	1788490000
M 32	with thread		79	HDC 32B SLU 2M32G	1788470000


Coupling hood


a	Version	Cover	b (mm)	Designation	Order No.
M 32	with thread		83	HDC 32B KLU 1M32G	1788500000



HD series - the flexible connectors

250 V, 10 A, Size 12

128 + 

Inserts

Crimp connection

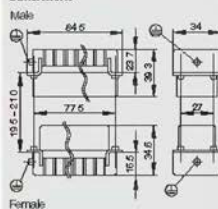


Insert	Designation	Order No.
Male	HDC HD 64 MC	1601720000
Female	HDC HD 64 FC	1601740000

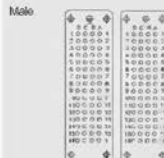
Note Please use the type of insert face to create 128 pole units



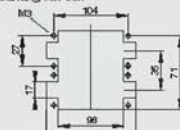
Dimensions



Arrangement of contacts



Mounting cut-out



Accessories

Crimp contacts

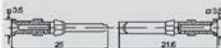
Surface silver



Surface gold



Qty.	Male	Order No.	Female	Order No.
100	HDC-C-HD-SM0 14-0-37AG	1651520000	HDC-C-HD-EM0 14-0-37AG	1651570000
100	HDC-C-HD-SM0 5AG	1651530000	HDC-C-HD-EM0 5AG	1651580000
100	HDC-C-HD-SM0 75-1AG	1601750000	HDC-C-HD-EM0 75-1AG	1601760000
100	HDC-C-HD-SM1 5AG	1651550000	HDC-C-HD-EM1 5AG	1651600000
100	HDC-C-HD-SM2 5AG	1651560000	HDC-C-HD-EM2 5AG	1651610000
100	HDC-C-HD-SM0 14-0-37AU	1651620000	HDC-C-HD-EM0 14-0-37AU	1651670000
100	HDC-C-HD-SM0 5AU	1651630000	HDC-C-HD-EM0 5AU	1651680000
100	HDC-C-HD-SM0 75-1AU	1651640000	HDC-C-HD-EM0 75-1AU	1651690000
100	HDC-C-HD-SM1 5AU	1651650000	HDC-C-HD-EM1 5AU	1651700000
100	HDC-C-HD-SM2 5AU	1651660000	HDC-C-HD-EM2 5AU	1651710000



Single contacts

Conductor mm? AWG No.

0.14 - 0.37	22
0.50	20
0.75 - 1.00	18
1.50	16
2.50	14

Tools

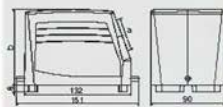


Tool	Order No.
Crimping tool CTX Cm 1 6/2 5	9018490000
Contact removal tool Removal Tool HD	1666730000

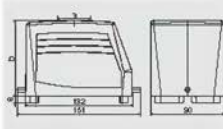
**Selection of Housings RockStar® IP65
Size 12**

Hood
Hood, Cable Entry sideways

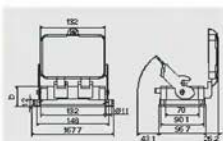

a	Version	Cover	b (mm)	Designation	Order No.
M 32	with thread		94	HDC 48B TSLU 1M32G	1782320000
M 40	with thread		94	HDC 48B TSLU 1M40G	1782310000
M 50	with thread		94	HDC 48B TSLU 1M50G	1782300000


Hood, Cable Entry at top

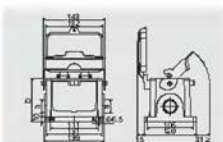

a	Version	Cover	b (mm)	Designation	Order No.
M 32	with thread		94	HDC 48B TCLU 1M32G	1782350000
M 50	with thread		94	HDC 48B TCLU 1M50G	1782330000


Base
Bulkhead housing


Version	Cover	b (mm)	Designation	Order No.
	with cover	62	HDC 48B ADLU	1222900000


Base housing

a	Version	Cover	b (mm)	Designation	Order No.
M 32	with thread	with cover	120	HDC 48B SLLU 2M32G	1782390000
M 32	with thread		100	HDC 48B SLU 2M32G	1782370000
M 40	with thread		100	HDC 48B SLU 2M40G	1782360000



HDD series – the compact connectors

The HDD series with turned contacts is designed for many poles in a small space. The compact housing design saves the user space without compromising the number of poles.

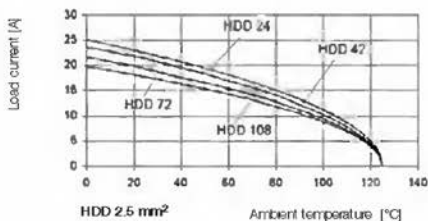
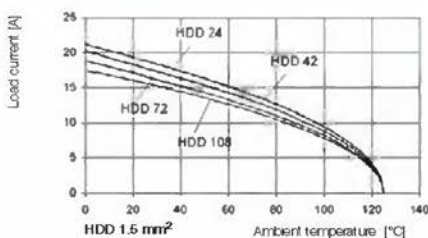


Technical data




Standards / approvals	
Standards	DIN EN 61984 DIN EN 60664-1
Approvals	UL/CSA
Inserts	
No. of poles	24, 42, 72, 108, 144, 216 + PE
Rated voltage	250 V
Rated voltage to UL/CSA	600 V
Rated current	10 A
Rated impulse withstand voltage	4 kV
Pollution severity	3
Insulation resistance	$\geq 10^9 \Omega$
Material	Glass-fibre reinforced PC (in UL list and approved for railway applications)
Temperature range	-40 °C ... +125 °C
Flammability to UL 94	V-0
Mechanical service life	
- Plugging cycles Ag - Surface	≥ 500
- Plugging cycles Au - Surface	≥ 500
Contact resistance	
Crimp connection	$\leq 4 \text{ m}\Omega$
Contacts / Material	
Sockets and plug-in contact	Copper alloy
Surface	Passivated silver, or 0.8 μm gold on 2 μm nickel
Crimp connection	
- Flexible conductor connection	0.14 ... 2.5 mm ² (AWG 26 ... 14)
- Stripping length	8.0 mm
Clamping torque	
- Screw connection	
SD blades	
- Screw connection	
- Push in	
- Tension clamp connection	
PE connection	
- Clamping range	0.5 ... 4 mm ²
- solid / stranded with	0.5 ... 4 mm ² / 0.5 ... 4 mm ²
- flexible / flexible with	
we end ferrule, DIN 46228 pt 1	0.5 ... 4 mm ² / 0.5 ... 4 mm ²
- AWG conductor	AWG 20 ... 12
- Stripping length	10 mm
- Clamping torque	1.2 ... 1.6 Nm
- Blade dimensions	SD 0.8 x 4 mm or PZ 1

Note: Switch off power supply before handling plug-in connectors.

Derating curves



Overview

		Rated voltage	Rated current	No. of poles	Tension clamp connection	Screw conn. with wire guard drilling	Crimp connection	Push In	Axial screw connection	Page
		250 V	10 A	24 + ⊕			•			B.66
		250 V	10 A	42 + ⊕			•			B.68
		250 V	10 A	72 + ⊕			•			B.70
		250 V	10 A	108 + ⊕			•			B.72
		250 V	10 A	144 + ⊕			•			B.74
		250 V	10 A	216 + ⊕			•			B.76

HDD series - the compact connectors

250 V, 10 A, Size 3

24 + 

Inserts

Crimp connection

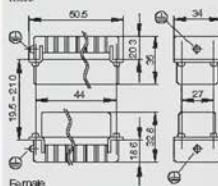


Insert	Designation	Order No.
Male	HDC HDD 24 MC	1651150000
Female	HDC HDD 24 FC	1651160000



Dimensions

Male



Arrangement of contacts

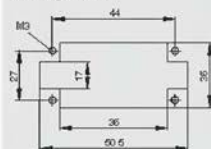
Male



Female



Mounting cut-out



Accessories

Crimp contacts

Surface silver



Surface gold



Qty.	Male	Order No.	Female	Order No.
100	HDC-C-HD-SM0 14-0.37AG	1651520000	HDC-C-HD-EM0 14-0.37AG	1651570000
100	HDC-C-HD-SM0 5AG	1651530000	HDC-C-HD-EM0 5AG	1651580000
100	HDC-C-HD-SM0 75-1AG	1601750000	HDC-C-HD-EM0 75-1AG	1601760000
100	HDC-C-HD-SM1 5AG	1651550000	HDC-C-HD-EM1 5AG	1651600000
100	HDC-C-HD-SM2 5AG	1651560000	HDC-C-HD-EM2 5AG	1651610000

Qty.	Male	Order No.	Female	Order No.
100	HDC-C-HD-SM0 14-0.37AU	1651620000	HDC-C-HD-EM0 14-0.37AU	1651670000
100	HDC-C-HD-SM0 5AU	1651630000	HDC-C-HD-EM0 5AU	1651680000
100	HDC-C-HD-SM0 75-1AU	1651640000	HDC-C-HD-EM0 75-1AU	1651690000
100	HDC-C-HD-SM1 5AU	1651650000	HDC-C-HD-EM1 5AU	1651700000
100	HDC-C-HD-SM2 5AU	1651660000	HDC-C-HD-EM2 5AU	1651710000



Single contacts

Conductor mm ²	AWG No.
0.14 - 0.37	22
0.50	20
0.75 - 1.00	18
1.50	16
2.50	14

Tools



Tool	Order No.
Crimping tool CTX Cm 1 6/2 5	9018490000
Contact removal tool Removal Tool HD	1666730000

Selection of Housings RockStar® IP65 Size 3

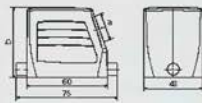


Hood

Hood, Cable Entry sideways



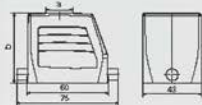
a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread		52	HDC 06B TSLU 1M20G	1788100000
M 20	with thread		52	HDC 06B TSLU 1M20G	1805930000
M 25	with thread		52	HDC 06B TSLU 1M25G	1789090000
M 25	with thread		72	HDC 16D TSLU 1M25G	1787430000



Hood, Cable Entry at top



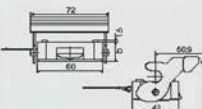
a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread		52	HDC 06B TOLU 1M20G	1788120000
M 25	with thread		52	HDC 06B TOLU 1M25G	1788110000
M 25	with thread		72	HDC 16D TOLU 1M25G	1787500000
M 32	with thread		72	HDC 16D TOLU 1M32G	1787490000



Cover



Version	Designation	Order No.
for hoods	HDC 06B DMCL 1LB	1665210000

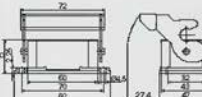


Base

Bulkhead housing



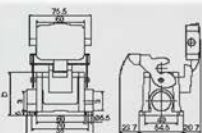
Version	Cover	b (mm)	Designation	Order No.
		29	HDC 06B ALLU	1202100000
	with cover	47	HDC 06B ADLU	1202500000



Base housing



a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread		54	HDC 06B SLLU 2M20G	1788140000
M 20	with thread	with cover	72	HDC 06B SCLU 2M20G	1788170000
M 25	with thread		54	HDC 06B SLLU 2M25G	1788150000
M 25	with thread	with cover	72	HDC 06B SCLU 2M25G	1788160000



Cover



Version	Designation	Order No.
for bases	HDC 06B DCDL 2B0	1665200000



HDD series - the compact connectors

250 V, 10 A, Size 4

42 + 

Inserts

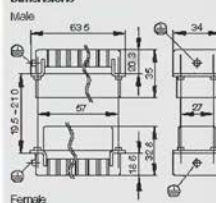
Crimp connection



Insert	Designation	Order No.
Male	HDC HDD 42 MC	1651170000
Female	HDC HDD 42 FC	1651180000



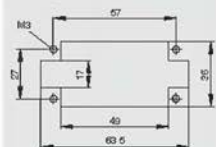
Dimensions



Arrangement of contacts



Mounting cut-out



Accessories

Crimp contacts

Surface silver



Qty.	Male	Order No.	Female	Order No.
100	HDC-C-HD-SM0 14-0-37AG	1651520000	HDC-C-HD-EM0 14-0-37AG	1651570000
100	HDC-C-HD-SM0 5AG	1651530000	HDC-C-HD-EM0 5AG	1651580000
100	HDC-C-HD-SM0 75-1AG	1601750000	HDC-C-HD-EM0 75-1AG	1601760000
100	HDC-C-HD-SM1 5AG	1651550000	HDC-C-HD-EM1 5AG	1651600000
100	HDC-C-HD-SM2 5AG	1651560000	HDC-C-HD-EM2 5AG	1651610000

Surface gold



100	HDC-C-HD-SM0 14-0-37AU	1651620000	HDC-C-HD-EM0 14-0-37AU	1651670000
100	HDC-C-HD-SM0 5AU	1651630000	HDC-C-HD-EM0 5AU	1651680000
100	HDC-C-HD-SM0 75-1AU	1651640000	HDC-C-HD-EM0 75-1AU	1651690000
100	HDC-C-HD-SM1 5AU	1651650000	HDC-C-HD-EM1 5AU	1651700000
100	HDC-C-HD-SM2 5AU	1651660000	HDC-C-HD-EM2 5AU	1651710000

Tools



Crimping tool	Order No.
CTX Cm 1 6/2 5	9018490000
Contact removal tool	Order No.
Removal Tool HD	1666730000



Single contacts

Conductor mm²	AWG No.
0.14 - 0.37	22
0.50	20
0.75 - 1.00	18
1.50	16
2.50	14

Selection of Housings RockStar® IP65 Size 4

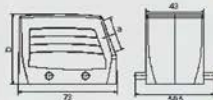


Hood

Hood, Cable Entry sideways



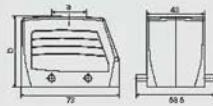
a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread		52	HDC 10B TSBU 1M20G	1787560000
M 25	with thread		52	HDC 10B TSBU 1M25G	1787560000
M 25	with thread		72	HDC 24D TSBU 1M25G	1787240000
M 32	with thread		72	HDC 24D TSBU 1M32G	1787230000



Hood, Cable Entry at top



a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread		52	HDC 10B TCBU 1M20G	1787590000
M 25	with thread		52	HDC 10B TCBU 1M25G	1787590000
M 25	with thread		72	HDC 24D TCBU 1M25G	1787390000
M 32	with thread		72	HDC 24D TCBU 1M32G	1787290000



Cover



Version	Designation	Order No.
for hoods	HDC 10B DMDQ 2QB	1665240000

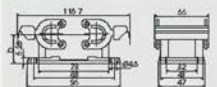


Base

Bulkhead housing



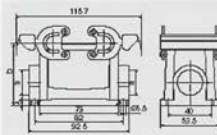
Version	Cover	b (mm)	Designation	Order No.
		29.3	HDC 10B ABU	1205000000



Base housing



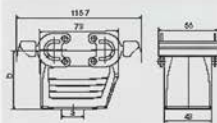
a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread		57	HDC 10B SBU 2M20G	1787640000
M 25	with thread		57	HDC 10B SBU 2M25G	1787630000
M 25	with thread		74	HDC 24D SBU 2M25G	1787350000
M 32	with thread		74	HDC 24D SBU 2M32G	1787360000



Coupling hood



a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread		56	HDC 10B KEU 1M20G	1787720000



Cover



Version	Designation	Order No.
for bases	HDC 10B DCDQ 4BO	1665230000



HDD series - the compact connectors

250 V, 10 A, Size 6

72 + 

Inserts

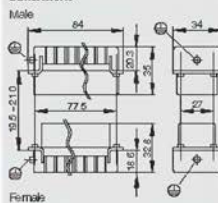
Crimp connection



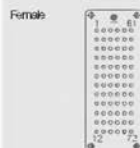
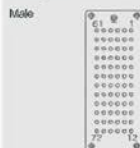
Insert	Designation	Order No.
Male	HDC HDD 72 MC	1651190000
Female	HDC HDD 72 FC	1651200000



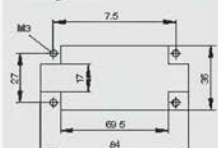
Dimensions



Arrangement of contacts



Mounting cut-out



Accessories

Crimp contacts

Surface silver



Qty.	Male	Order No.	Female	Order No.
100	HDC-C-HD-SMD 14-0-37AG	1651520000	HDC-C-HD-EM0 14-0-37AG	1651570000
100	HDC-C-HD-SMD 5AG	1651530000	HDC-C-HD-EM0 5AG	1651580000
100	HDC-C-HD-SMD 75-1AG	1601750000	HDC-C-HD-EM0 75-1AG	1601760000
100	HDC-C-HD-SMT 5AG	1651550000	HDC-C-HD-EM1 5AG	1651600000
100	HDC-C-HD-SM2 5AG	1651560000	HDC-C-HD-EM2 5AG	1651610000

Surface gold

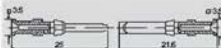


100	HDC-C-HD-SMD 14-0-37AU	1651620000	HDC-C-HD-EM0 14-0-37AU	1651670000
100	HDC-C-HD-SMD 5AU	1651630000	HDC-C-HD-EM0 5AU	1651680000
100	HDC-C-HD-SMD 75-1AU	1651640000	HDC-C-HD-EM0 75-1AU	1651690000
100	HDC-C-HD-SMT 5AU	1651650000	HDC-C-HD-EM1 5AU	1651700000
100	HDC-C-HD-SM2 5AU	1651660000	HDC-C-HD-EM2 5AU	1651710000

Tools



Tool	Order No.
Crimping tool CTX GM 1 6/2 5	9018490000
Contact removal tool Removal Tool HD	1666730000



Single contacts	AWG No.
Conductor mm?	
0.14 - 0.37	22
0.50	20
0.75 - 1.00	18
1.50	16
2.50	14

Selection of Housings RockStar® IP65 Size 6

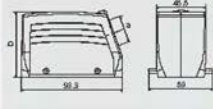


Hood

Hood, Cable Entry sideways



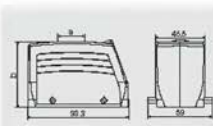
a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		61	HDC 16B TSBU 1M25G	1782180000
M 25	with thread		76	HDC 40D TSBU 1M25G	1787010000
M 32	with thread		76	HDC 40D TSBU 1M32G	1787000000



Hood, Cable Entry at top



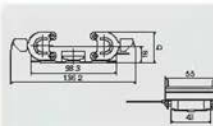
a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		61	HDC 16B TCBU 1M25G	1782210000
M 25	with thread		76	HDC 40D TCBU 1M25G	1787070000
M 32	with thread		76	HDC 40D TCBU 1M32G	1787060000



Cover



Version	Designation	Order No.
for hoods	HDC 16B DMDQ 2QB	1665270000

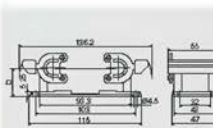


Base

Bulkhead housing



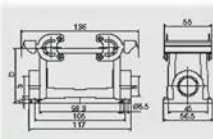
Version	Cover	b (mm)	Designation	Order No.
		29	HDC 16B ABU	1209600000



Base housing



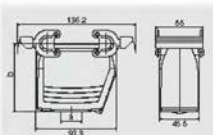
a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		64	HDC 16B SBU 2M25G	1782240000
M 25	with thread		84	HDC 40D SBU 2M25G	1787120000
M 32	with thread		84	HDC 40D SBU 2M32G	1787110000



Coupling hood



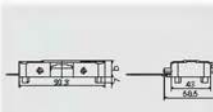
a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		79	HDC 40D RBU 1M25G	1787200000
M 32	with thread		79	HDC 40D RBU 1M32G	1787190000



Cover



Version	Designation	Order No.
for bases	HDC 16B DCDQ 4BO	1665260000



HDD series - the compact connectors

250 V, 10 A, Size 8

108 + 

Inserts

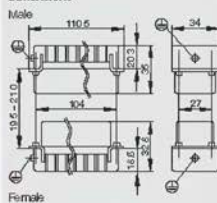
Crimp connection



Insert	Designation	Order No.
Male	HDC HDC 108 MC	1651210000
Female	HDC HDC 108 FC	1651220000



Dimensions



Arrangement of contacts

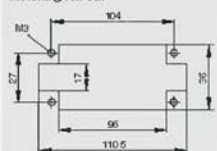
Male



Female



Mounting cut-out



Accessories

Crimp contacts

Surface silver



Surface gold



Qty.	Male	Order No.	Female	Order No.
100	HDC-C-HD-SM0 14-0 37AG	1651520000	HDC-C-HD-EM0 14-0 37AG	1651570000
100	HDC-C-HD-SM0 5AG	1651530000	HDC-C-HD-EM0 5AG	1651580000
100	HDC-C-HD-SM0 75-1AG	1601750000	HDC-C-HD-EM0 75-1AG	1601760000
100	HDC-C-HD-SM1 5AG	1651550000	HDC-C-HD-EM1 5AG	1651600000
100	HDC-C-HD-SM2 5AG	1651560000	HDC-C-HD-EM2 5AG	1651610000

Qty.	Male	Order No.	Female	Order No.
100	HDC-C-HD-SM0 14-0 37AU	1651620000	HDC-C-HD-EM0 14-0 37AU	1651670000
100	HDC-C-HD-SM0 5AU	1651630000	HDC-C-HD-EM0 5AU	1651680000
100	HDC-C-HD-SM0 75-1AU	1651640000	HDC-C-HD-EM0 75-1AU	1651690000
100	HDC-C-HD-SM1 5AU	1651650000	HDC-C-HD-EM1 5AU	1651700000
100	HDC-C-HD-SM2 5AU	1651660000	HDC-C-HD-EM2 5AU	1651710000



Single contacts

Conductor mm ²	AWG No.
0.14 - 0.37	22
0.50	20
0.75 - 1.00	18
1.50	16
2.50	14

Tools



Tool	Order No.
Crimping tool CTX Crt 1 6/2 5	9018490000
Contact removal tool Removal Tool HD	1666730000

Selection of Housings RockStar® IP65 Size 8

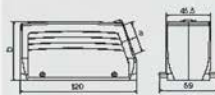


Hood

Hood, Cable Entry sideways



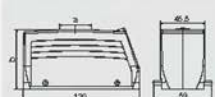
a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		61	HDC 24B TSBU 1M25G	1787760000
M 32	with thread		61	HDC 24B TSBU 1M32G	1787750000
M 25	with thread		76	HDC 64D TSBU 1M25G	1786780000
M 32	with thread		76	HDC 64D TSBU 1M32G	1786770000



Hood, Cable Entry at top



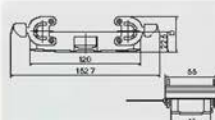
a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		61	HDC 24B TCBU 1M25G	1787820000
M 32	with thread		61	HDC 24B TCBU 1M32G	1787810000
M 32	with thread		76	HDC 64D TCBU 1M32G	1786830000



Cover



Version	Designation	Order No.
for hoods	HDC 24B DMDQ 2QB	1665640000

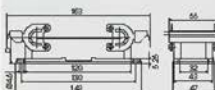


Base

Bulkhead housing



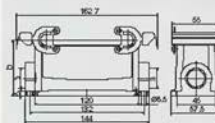
Version	Cover	b (mm)	Designation	Order No.
		29.3	HDC 24B ABU	1212400000



Base housing



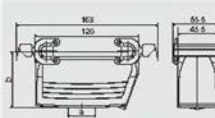
a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		64	HDC 24B SBU 2M25G	1787870000
M 25	with thread		84	HDC 64D SBU 2M25G	1786890000
M 32	with thread		84	HDC 64D SBU 2M32G	1786830000



Coupling hood



a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		66	HDC 24B KBU 1M25G	1787520000
M 32	with thread		79	HDC 64D KBU 1M32G	1786960000



Cover



Version	Designation	Order No.
for bases	HDC 24B DCDQ 4BO	1665630000



HDD series - the compact connectors

250 V, 10 A, Size 10

144 + 

Inserts

Crimp connection

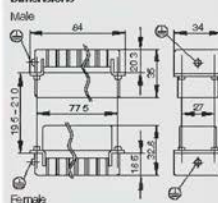


Insert	Designation	Order No.
Male	HDC HDD 72 MC	1651190000
Female	HDC HDD 72 FC	1651200000
Male	HDC HDD 144 MC	1651240000
Female	HDC HDD 144 FC	1651260000

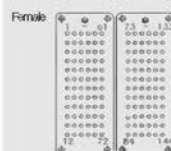
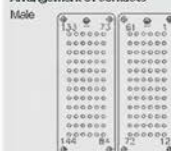
Note Please order two contact inserts per housing



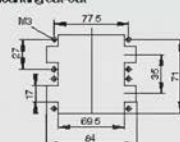
Dimensions



Arrangement of contacts



Mounting cut-out



Accessories

Crimp contacts

Surface silver



Qty.	Male	Order No.	Female	Order No.
100	HDC-C-HD-SM0 14-0 37AG	1651520000	HDC-C-HD-EM0 14-0 37AG	1651570000
100	HDC-C-HD-SM0 5AG	1651530000	HDC-C-HD-EM0 5AG	1651580000
100	HDC-C-HD-SM0 75-1AG	1601750000	HDC-C-HD-EM0 75-1AG	1601760000
100	HDC-C-HD-SM1 5AG	1651550000	HDC-C-HD-EM1 5AG	1651600000
100	HDC-C-HD-SM2 5AG	1651560000	HDC-C-HD-EM2 5AG	1651610000

Surface gold



100	HDC-C-HD-SM0 14-0 37AU	1651620000	HDC-C-HD-EM0 14-0 37AU	1651670000
100	HDC-C-HD-SM0 5AU	1651630000	HDC-C-HD-EM0 5AU	1651680000
100	HDC-C-HD-SM0 75-1AU	1651640000	HDC-C-HD-EM0 75-1AU	1651690000
100	HDC-C-HD-SM1 5AU	1651650000	HDC-C-HD-EM1 5AU	1651700000
100	HDC-C-HD-SM2 5AU	1651660000	HDC-C-HD-EM2 5AU	1651710000

Tools



Tool	Order No.
Crimping tool CTX Cm 1 6/2 5	9018490000
Contact removal tool Removal Tool HD	1666730000



Single contacts

Conductor mm? AWG No.

0.14 - 0.37 22

0.50 20

0.75 - 1.00 18

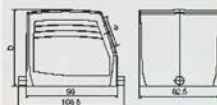
1.50 16

2.50 14

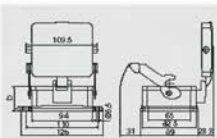
**Selection of Housings RockStar® IP65
Size 10**

Hood
Hood, Cable Entry sideways

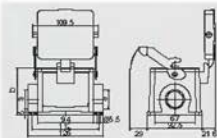

a	Version	Cover	b (mm)	Designation	Order No.
M 32	with thread		79	HDC 32B TSLU 1M32G	1788420000


Base
Bulkhead housing

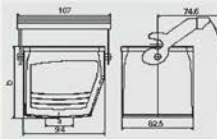

	Version	Cover	b (mm)	Designation	Order No.
		w/ cover	55	HDC 32B ADLU	1219800000
			38	HDC 32B ALU	1219500000


Base housing


a	Version	Cover	b (mm)	Designation	Order No.
M 32	with thread	w/ cover	96	HDC 32B SLLU 2M32G	1788490000
M 32	with thread		79	HDC 32B SLU 2M32G	1788470000


Coupling hood


a	Version	Cover	b (mm)	Designation	Order No.
M 32	with thread		83	HDC 32B KLU 1M32G	1788500000



HDD series - the compact connectors

250 V, 10 A, Size 12

216 + 

Inserts

Crimp connection

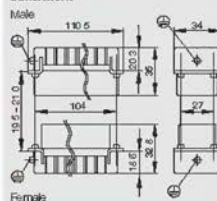


Insert	Designation	Order No.
Male	HDC HDD 108 MC	1651210000
Female	HDC HDD 108 FC	1651220000
Male	HDC HDD 216 MC	1651230000
Female	HDC HDD 216 FC	1651300000

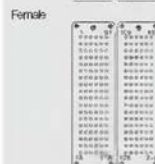
Note Please order two contact inserts per housing



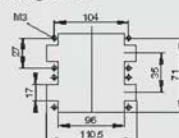
Dimensions



Arrangement of contacts



Mounting cut-out



Accessories

Crimp contacts

Surface silver



Surface gold



Qty	Male	Order No.	Female	Order No.
100	HDC-C-HD-SM0 14-0.37AG	1651520000	HDC-C-HD-EM0 14-0.37AG	1651570000
100	HDC-C-HD-SM0 5AG	1651530000	HDC-C-HD-EM0 5AG	1651580000
100	HDC-C-HD-SM0 75-1AG	1601750000	HDC-C-HD-EM0 75-1AG	1601760000
100	HDC-C-HD-SM1 5AG	1651550000	HDC-C-HD-EM1 5AG	1651600000
100	HDC-C-HD-SM2 5AG	1651560000	HDC-C-HD-EM2 5AG	1651610000

Qty	Male	Order No.	Female	Order No.
100	HDC-C-HD-SM0 14-0.37AU	1651620000	HDC-C-HD-EM0 14-0.37AU	1651670000
100	HDC-C-HD-SM0 5AU	1651630000	HDC-C-HD-EM0 5AU	1651680000
100	HDC-C-HD-SM0 75-1AU	1651640000	HDC-C-HD-EM0 75-1AU	1651690000
100	HDC-C-HD-SM1 5AU	1651650000	HDC-C-HD-EM1 5AU	1651700000
100	HDC-C-HD-SM2 5AU	1651660000	HDC-C-HD-EM2 5AU	1651710000



Single contacts

Conductor mm ²	AWG No.
0.14 - 0.37	22
0.50	20
0.75 - 1.00	18
1.50	16
2.50	14

Tools

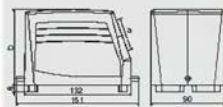


Tool	Order No.
Crimping tool CTX Cm 1 6/2 5	9018490000
Contact removal tool Removal Tool HD	1666730000

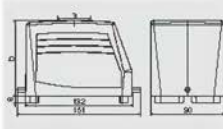
**Selection of Housings RockStar® IP65
Size 12**

Hood
Hood, Cable Entry sideways

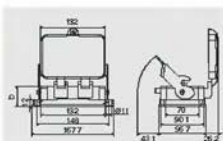

a	Version	Cover	b (mm)	Designation	Order No.
M 32	with thread		94	HDC 48B TSLU 1M32G	1782320000
M 40	with thread		94	HDC 48B TSLU 1M40G	1782310000
M 50	with thread		94	HDC 48B TSLU 1M50G	1782300000


Hood, Cable Entry at top

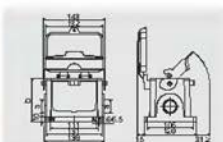

a	Version	Cover	b (mm)	Designation	Order No.
M 32	with thread		94	HDC 48B TCLU 1M32G	1782350000
M 50	with thread		94	HDC 48B TCLU 1M50G	1782330000


Base
Bulkhead housing


Version	Cover	b (mm)	Designation	Order No.
	with cover	62	HDC 48B ADLU	1222900000


Base housing

a	Version	Cover	b (mm)	Designation	Order No.
M 32	with thread	with cover	120	HDC 48B SDLU 2M32G	1782390000
M 32	with thread		100	HDC 48B SLU 2M32G	1782370000
M 40	with thread		100	HDC 48B SLU 2M40G	1782360000



HVE series – exciting voltage

Weidmüller high-voltage inserts are equipped with lagging earth contacts. This means that plugging operations are never performed live, protecting the user and the circuit.

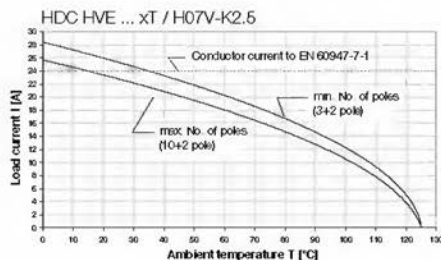
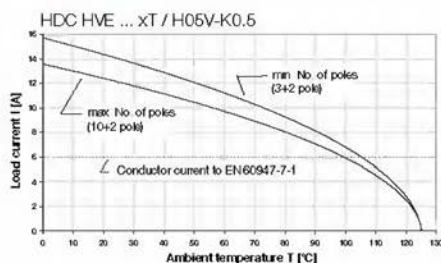


Technical data









Standards / approvals	
Standards	DIN EN 61984 DIN EN 60664-1
Approvals	ULCISA
Inserts	
No. of poles	3+2, 6+2, 10+2
Rated voltage	830 V
Rated voltage to ULCSA	600 V
Rated current	23 A (HV 3+2 = 24 A)
Rated impulse withstand voltage	8 kV
Pollution severity	3
Insulation resistance	≥ 10 ⁹ Ω
Material	Glass-fibre reinforced PC (in UL list and approved for railway applications)
Temperature range	-40 °C ... +125 °C
Flammability to UL 94	V-0
Mechanical service life	
- Plugging cycles Ag - Surface	≥ 500
Contacts / Material	
Sockets and plug-in contact	Copper alloy
Surface	Passivated silver
Clamping unit / Screw connection	Copper alloy / Passivated silver
Clamping range / Stripping length	
- Screw connection	0.5 - 2.5 mm ² (AWG 20 ... 14) / 9 mm
- Tension clamp connection	0.5 - 2.5 mm ² (AWG 20 ... 14) / 8 mm
Clamping torque	
- Screw connection	0.5 - 0.55 Nm
SD blades	
- Screw connection	0.6 x 3.6 or PZ 0
- Tension clamp connection	0.5 x 3 or 0.6 x 3.5
PE connection	
- Clamping range	0.5 ... 4 mm ²
- solid / stranded	0.5 ... 4 mm ² / 0.5 ... 4 mm ²
- flexible / flexible with wire end ferrule, DIN 46228 pt. 1	0.5 ... 4 mm ² / 0.5 ... 4 mm ²
- AWG conductor	AWG 20 ... 12
- Stripping length	10 mm
- Clamping torque	1.2 ... 1.5 Nm
- Blade dimensions	SD 0.8 x 4 mm or PZ 1

Note: Switch off power supply before handling plug-in connectors.
Rated voltage determined on the basis of DIN EN 61984 section 6.19.2.2
600 V for signal contact.

Derating curves



Overview

		Rated voltage	Rated current	No. of poles	Tension clamp connection	Screw conn. with wire guard fitting	Crimp connection	Push In	Axial screw connection	Page
		830 V	24 A	3 + 2 + 	•	•				B.80
		830 V	23 A	6 + 2 + 	•	•				B.82
		830 V	23 A	10 + 2 + 	•	•				B.84

HVE series - exciting voltage

830 V, 24 A, Size 4

3+2 + 



Inserts

Tension clamp connection



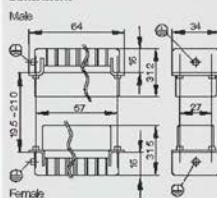
Insert	Designation	Order No.
Male	HDC HVE 3+2 MT	1896930000
Female	HDC HVE 3+2 FT	1896920000

Screw connection



Insert	Designation	Order No.
Male	HDC HVE 3+2 MS	1651310000
Female	HDC HVE 3+2 FS	1651320000

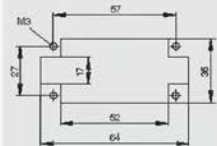
Dimensions



Arrangement of contacts



Mounting cut-out



Selection of Housings RockStar® IP65 Size 4

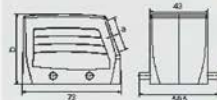


Hood

Hood, Cable Entry sideways



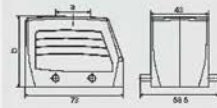
a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread		52	HDC 10B TSBU 1M20G	1787560000
M 25	with thread		52	HDC 10B TSBU 1M25G	1787560000
M 25	with thread		72	HDC 24D TSBU 1M25G	1787240000
M 32	with thread		72	HDC 24D TSBU 1M32G	1787230000



Hood, Cable Entry at top



a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread		52	HDC 10B TCBU 1M20G	1787590000
M 25	with thread		52	HDC 10B TCBU 1M25G	1787590000
M 25	with thread		72	HDC 24D TCBU 1M25G	1787390000
M 32	with thread		72	HDC 24D TCBU 1M32G	1787290000



Cover



Version	Designation	Order No.
for hoods	HDC 10B DMDQ 20B	1665240000

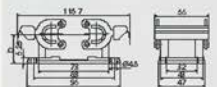


Base

Bulkhead housing



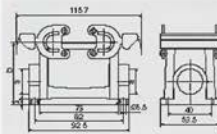
Version	Cover	b (mm)	Designation	Order No.
		29.3	HDC 10B ABU	1205000000



Base housing



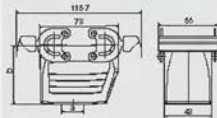
a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread		57	HDC 10B SBU 2M20G	1787640000
M 25	with thread		57	HDC 10B SBU 2M25G	1787630000
M 25	with thread		74	HDC 24D SBU 2M25G	1787350000
M 32	with thread		74	HDC 24D SBU 2M32G	1787360000



Coupling hood



a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread		56	HDC 10B KBU 1M20G	1787720000



Cover



Version	Designation	Order No.
for bases	HDC 10B DCDQ 4B0	1665230000



HVE series - exciting voltage

830 V, 23 A, Size 6

6+2 + 



Inserts

Tension clamp connection



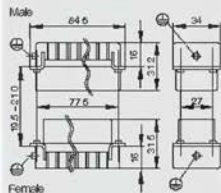
Insert	Designation	Order No.
Male	HDC HVE 6+2 MT	1896950000
Female	HDC HVE 6+2 FT	1896940000

Screw connection

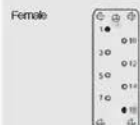
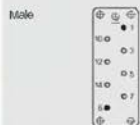


Insert	Designation	Order No.
Male	HDC HVE 6+2 MS	1651330000
Female	HDC HVE 6+2 FS	1651340000

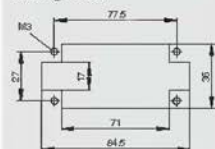
Dimensions



Arrangement of contacts



Mounting cut-out



Selection of Housings RockStar® IP65 Size 6

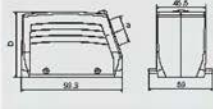


Hood

Hood, Cable Entry sideways



a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		61	HDC 16B TSEBU 1M25G	1782180000
M 25	with thread		76	HDC 40D TSEBU 1M25G	1787010000
M 32	with thread		76	HDC 40D TSEBU 1M32G	1787000000



Hood, Cable Entry at top



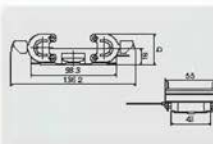
a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		61	HDC 16B TCEBU 1M25G	1782210000
M 25	with thread		76	HDC 40D TCEBU 1M25G	1787070000
M 32	with thread		76	HDC 40D TCEBU 1M32G	1787060000



Cover



Version	Designation	Order No.
for hoods	HDC 16B DMDQ 2QB	1665270000

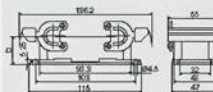


Base

Bulkhead housing



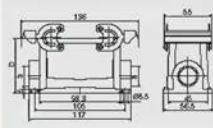
Version	Cover	b (mm)	Designation	Order No.
		29	HDC 16B ABU	1209600000



Base housing



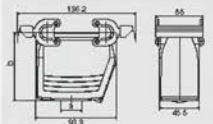
a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		64	HDC 16B SBU 2M25G	1782240000
M 25	with thread		84	HDC 40D SBU 2M25G	1787120000
M 32	with thread		84	HDC 40D SBU 2M32G	1787110000



Coupling hood



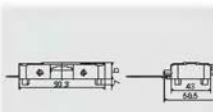
a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		79	HDC 40D RBU 1M25G	1787200000
M 32	with thread		79	HDC 40D RBU 1M32G	1787190000



Cover



Version	Designation	Order No.
for bases	HDC 16B DCDQ 4BO	1665260000



HVE series - exciting voltage

830 V, 23 A, Size 8

10+2 + 

Inserts

Tension clamp connection



Insert	Designation	Order No.
Male	HDC HVE 10+2 MT	1896970000
Female	HDC HVE 10+2 FT	1896960000

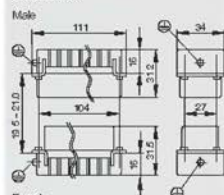
Screw connection



Insert	Designation	Order No.
Male	HDC HVE 10+2 MS	1651350000
Female	HDC HVE 10+2 FS	1651360000



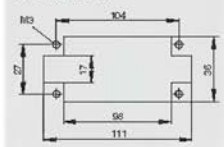
Dimensions



Arrangement of contacts



Mounting cut-out



Selection of Housings RockStar® IP65 Size 8

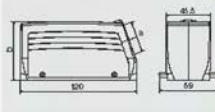


Hood

Hood, Cable Entry sideways



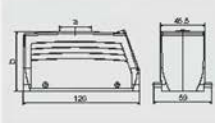
a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		61	HDC 24B TSBU 1M25G	1787760000
M 32	with thread		61	HDC 24B TSBU 1M32G	1787750000
M 25	with thread		76	HDC 64D TSBU 1M25G	1786780000
M 32	with thread		76	HDC 64D TSBU 1M32G	1786770000



Hood, Cable Entry at top



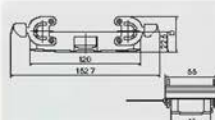
a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		61	HDC 24B TCBU 1M25G	1787820000
M 32	with thread		61	HDC 24B TCBU 1M32G	1787810000
M 32	with thread		76	HDC 64D TCBU 1M32G	1786830000



Cover



Version	Designation	Order No.
for hoods	HDC 24B DMDQ 2QB	1665640000

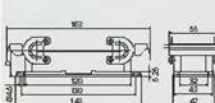


Base

Bulkhead housing



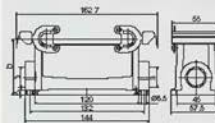
Version	Cover	b (mm)	Designation	Order No.
		29.3	HDC 24B ABU	1212400000



Base housing



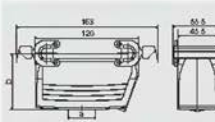
a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		64	HDC 24B SBU 2M25G	1787870000
M 25	with thread		84	HDC 64D SBU 2M25G	1786890000
M 32	with thread		84	HDC 64D SBU 2M32G	1786830000



Coupling hood



a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		66	HDC 24B KBU 1M25G	1787520000
M 32	with thread		79	HDC 64D KBU 1M32G	1786960000



Cover



Version	Designation	Order No.
for bases	HDC 24B DCDQ 4BO	1665630000



HSB series – the heavy-duty connectors

The HSB series provides users with 35 A via each contact with screw connections for a safe and reliable connection.

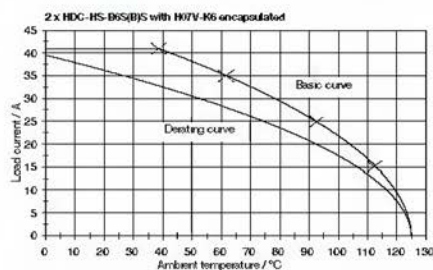


Technical data



Standards / approvals	
Standards	DIN EN 61984 DIN EN 60664-1
Approvals	UL/CSA
Inserts	
No. of poles	6, 12
Rated voltage	400 V
Rated voltage to UL/CSA	600 V
Rated current	35 A
Rated impulse withstand voltage	6 kV
Pollution severity	3
Insulation resistance	$\geq 10^9 \Omega$
Material	Glass-fibre reinforced PC (in UL list and approved for railway applications)
Temperature range	-40 °C ... +125 °C
Flammability to UL 94	V-0
Mechanical service life	
- Plugging cycles Ag - Surface	≥ 500
- Plugging cycles Au - Surface	≥ 500
Contact resistance	
Screw connection	$\leq 2 \text{ m}\Omega$
Contacts / Material	
Sockets and plug-in contact	Copper alloy
Surface	Passivated silver or 0.8 μm gold on 2 μm Ni
Clamping unit / Screw connection	Copper alloy / Passivated silver
Screw connection	
- Clamping range	0.5 – 6 mm ² (AWG 20 ... 10)
- Stripping length	11 mm
- fit with wire end ferrule to DIN 46228 Part 1	4 mm ²
Clamping torque	
- Screw connection	1.2 ... 1.5 Nm
SD blades	0.6 x 3.6 or 0.8 x 4 mm
FE connection	
- Clamping range	0.5 ... 6 mm ²
- solid / stranded	0.5 ... 6 mm ² / 0.5 ... 6 mm ²
- flexible / flexible with wire end ferrule, DIN 46228 pt. 1	0.5 ... 6 mm ² / 0.5 ... 6 mm ²
- AWG conductor	AWG 20 ... 12
- Stripping length	10 mm
- Clamping torque	2 ... 2.5 Nm
- Blade dimensions	SD 1 x 5.5 mm or PH 2

Note: Switch off power supply before handling plug-in connectors
When connecting flexible conductors using screws, wire end ferrule to DIN 46228 Part 1 must be used.

Derating curves



Overview

	Rated voltage	Rated current	No. of poles	Tension clamp connection	Screw conn. with wire guard drilling	Crimp connection	Push In	Axial screw connection	Page
	400 V	35 A	6 + ⚡		•				B.88
	400 V	35 A	12 + ⚡		•				B.90

HSB series - the heavy-duty connectors

400 V, 35 A, Size 6

6 + 

Inserts

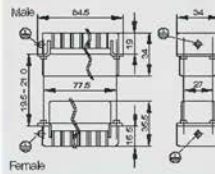


Screw connection



Insert	Designation	Order No.
Male	HDC HSB 6 MS	1498700000
Female	HDC HSB 6 FS	1498900000

Dimensions



Arrangement of contacts

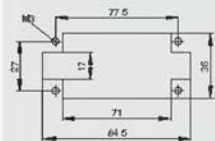
Male



Female



Mounting cut-out



Selection of Housings RockStar® IP65
 Size 6

Hood
Hood, Cable Entry sideways

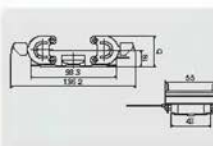

a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		61	HDC 16B TSBU 1M25G	1788180000
M 25	with thread		76	HDC 40D TSBU 1M25G	1787010000
M 32	with thread		76	HDC 40D TSBU 1M32G	1787000000


Hood, Cable Entry at top

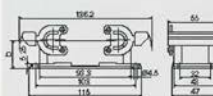

a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		61	HDC 16B TCBU 1M25G	1788210000
M 25	with thread		76	HDC 40D TCBU 1M25G	1787070000
M 32	with thread		76	HDC 40D TCBU 1M32G	1787060000


Cover

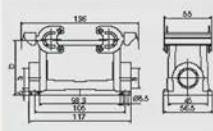

Version	Designation	Order No.
for hoods	HDC 16B DMDQ 2QB	1665270000


Base
Bulkhead housing

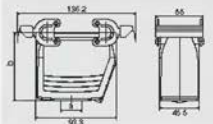

Version	Cover	b (mm)	Designation	Order No.
		29	HDC 16B ABU	1209600000


Base housing

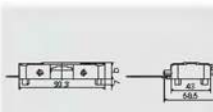

a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		64	HDC 16B SBU 2M25G	1788240000
M 25	with thread		84	HDC 40D SBU 2M25G	1787120000
M 32	with thread		84	HDC 40D SBU 2M32G	1787110000


Coupling hood


a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		79	HDC 40D RBU 1M25G	1787200000
M 32	with thread		79	HDC 40D RBU 1M32G	1787190000


Cover


Version	Designation	Order No.
for bases	HDC 16B DCDQ 4BO	1665260000



HSB series - the heavy-duty connectors

400 V, 35 A, Size 10

12 + 

Inserts

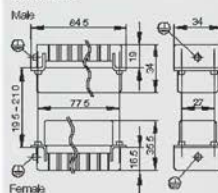
Screw connection



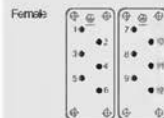
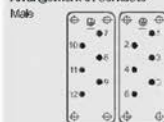
Insert	Designation	Order No.
Male	HDC HSB 6 MS	t498700000
Female	HDC HSB 6 FS	t498900000
Male	HDC HSB 6 MS 7 - 12	t498800000
Female	HDC HSB 6 FS 7 - 12	t499000000



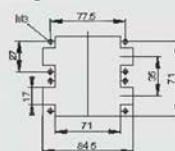
Dimensions



Arrangement of contacts



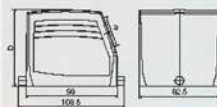
Mounting cut-out



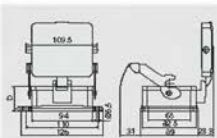
Selection of Housings RockStar® IP65
 Size 10

Hood
Hood, Cable Entry sideways

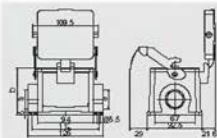

a	Version	Cover	b (mm)	Designation	Order No.
M 32	with thread		79	HDC 32B TSLU 1M32G	t788420000


Base
Bulkhead housing

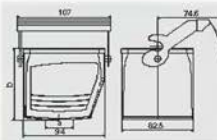

Version	Cover	b (mm)	Designation	Order No.
	w/ cover	55	HDC 32B ADLU	t219800000
		38	HDC 32B ALU	t219500000


Base housing


a	Version	Cover	b (mm)	Designation	Order No.
M 32	with thread	w/ cover	96	HDC 32B SLLU 2M32G	t788490000
M 32	with thread		79	HDC 32B SLU 2M32G	t788470000


Coupling hood


a	Version	Cover	b (mm)	Designation	Order No.
M 32	with thread		83	HDC 32B KLU 1M32G	t788500000



MixMate series – the high-capacity connectors

MixMate integrates axial screw contacts and TOP connection technology in one plug-in connector. The compact design allows simultaneous transmission of high currents, high voltages and signals.







Technical data

	S 4	S 4/0	S 6/12	S 6/6
Standards / approvals				
Standards	DIN EN 61984 DIN EN 60664-1	DIN EN 61984 DIN EN 60664-1	DIN EN 61984 DIN EN 60664-1	DIN EN 61984 DIN EN 60664-1
Approvals	ULCSA	ULCSA	ULCSA	ULCSA
Inserts				
No. of poles				
– Power contact	4 (+PE)	4	6	6 (+PE)
– Signal contact			12	6
Rated voltage				
– Power contact	1000 V	830 V	630 V	630 V
– Signal contact			400 V	400 V
Rated voltage to ULCSA	600 V	600 V	600 V	600 V
Rated current				
– Power contact	65 A	80 A	48 A	100 A
– Signal contact			16 A	16 A
Rated impulse withstand voltage				
– Power contact	8 kV	8 kV	8 kV	8 kV
– Signal contact			6 kV	6 kV
Pollution severity	3	3	3	3
Insulation resistance	$\geq 10^9 \Omega$	$\geq 10^9 \Omega$	$\geq 10^9 \Omega$	$\geq 10^9 \Omega$
Material	Glass-fibre reinforced PC (in UL list and approved for railway applications)	Glass-fibre reinforced PC (in UL list and approved for railway applications)	Glass-fibre reinforced PC (in UL list and approved for railway applications)	Glass-fibre reinforced PC (in UL list and approved for railway applications)
Temperature range	-40 °C ... +125 °C	-40 °C ... +125 °C	-40 °C ... +125 °C	-40 °C ... +125 °C
Flammability to UL 94	V-0	V-0	V-0	V-0
Mechanical service life				
– Plugging cycles Ag - Surface	≥ 500	≥ 500	≥ 500	≥ 500
– Plugging cycles Au - Surface	≥ 500	≥ 500	≥ 500	≥ 500
Contact resistance with min. and max. conductors	≤ 4 m Ω	≤ 4 m Ω	≤ 4 m Ω	≤ 4 m Ω
Contacts / Material				
Sockets and plug-in contact	Copper alloy	Copper alloy	Copper alloy	Copper alloy
Surface	Passivated silver or 0.8 μ m gold on 2 μ m Nickel	Passivated silver or 0.8 μ m gold on 2 μ m Nickel	Passivated silver or 0.8 μ m gold on 2 μ m Nickel	Passivated silver or 0.8 μ m gold on 2 μ m Nickel
Flexible conductor connection				
– Power contact	2.5 - 10 mm ² (AWG 14 ... 8)	1.5 - 16 mm ² (AWG 16 ... 6)	2.5 - 10 mm ² (AWG 14 ... 8)	1.6 - 35 mm ² (AWG 8 ... 2)
– Signal contact			0.5 - 2.5 mm ² (AWG 24 ... 14)	0.5 - 2.5 mm ² (AWG 24 ... 14)
Stripping length				
– Power contact	8 mm	8 mm	8 mm	13 mm
– Signal contact			12 mm	12 mm
Clamping torque/axial connection				
– Screw connection		2 ... 3 Nm		
– Power contact	1.1 - 1.7 Nm		1.1 - 1.7 Nm	6 ... 8 Nm
– Signal contact			0.45 - 0.9 Nm	0.45 - 0.9 Nm
Frings				
Hexagon socket, 2 mm	SW 2	SW 3	SW 2	SW 4
Screwdriver	0.6 x 3.6		0.6 x 3.6 mm	SD 0.6 x 3.5 or PZ 0
PE connection via plug/socket				
– Clamping range	1.5/2.5 ... 4/10 mm ²	1.5 ... 16 mm ² with cable lug	2.5 ... 10 mm ²	0.5 ... 4 mm ²
– AWG conductor	AWG 16/14 ... 12/8	AWG 16 ... 6	AWG 14 ... 8	AWG 20 ... 12
– Stripping length	8 mm	8 mm (for wire up to 6 mm ² only)	8 mm	8 mm
– Clamping torque	0.5 - 0.8 Nm	2 ... 2.5 Nm	2 ... 2.5 Nm	1.2 - 1.5 Nm
– Blade dimensions	SD 0.8 x 4 mm	SD 0.8 x 4 mm or PZ 2	SD 0.8 x 4 mm or PZ 2	SD 0.8 x 4 mm or PZ 1

Note: Power contact = axial connector, Signal contact = screw connection, Switch off power supply before handling plug-in connectors. MixMate S6/6 with PE via axial connection with data identical to the power contact

Overview

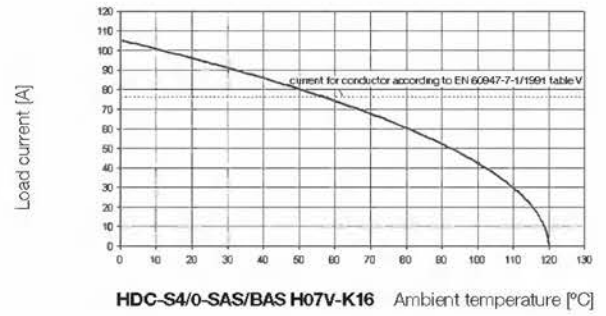
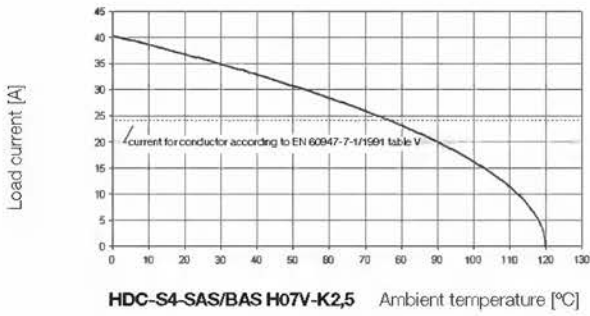
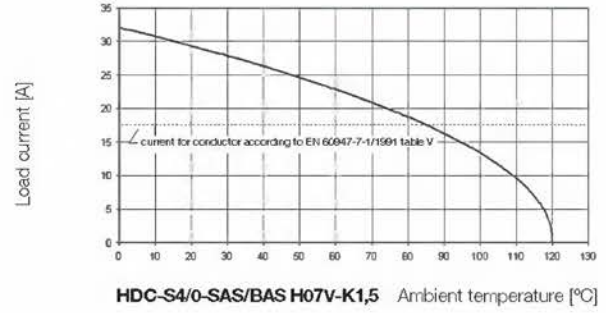
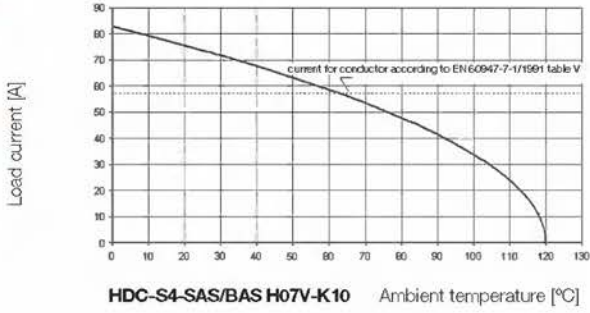
	Rated voltage	Rated current	No. of poles	Tension clamp connection	Screw conn. with wire guard spring	Crimp connection	Push In	Axial screw connection	Page
	1000 V	65 A	4 + ⊕					•	B.96
	830 V	80 A	4 + 0 + ⊕					•	B.98
	630 V	48 A	6 + 12 + ⊕		•			•	B.100
	630 V	100 A	6 + 6 + ⊕		•			•	B.102

Technical data

Derating curves

Size 3
MixMate – 4 power contacts

Size 6
MixMate – 4 power contacts

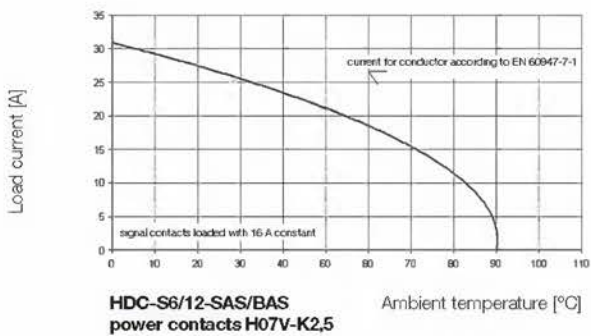
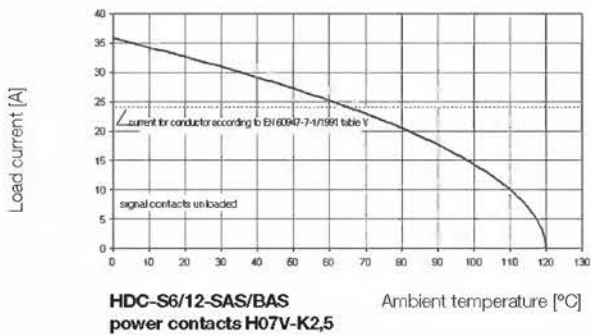
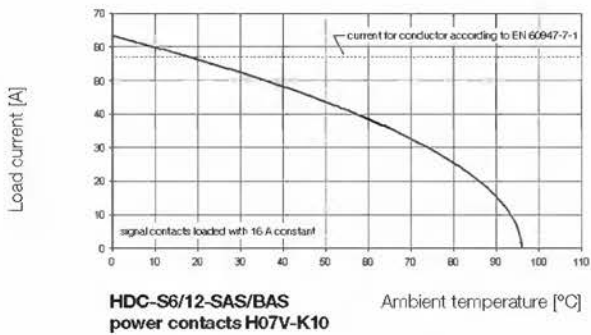
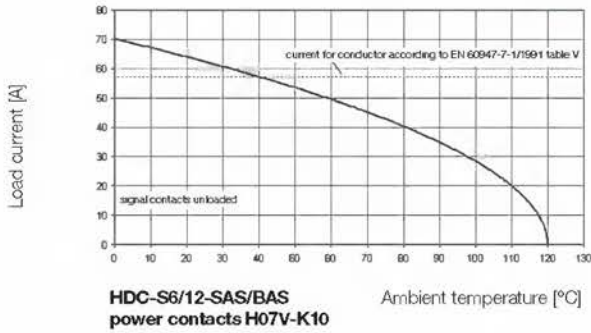


Technical data

Derating curves

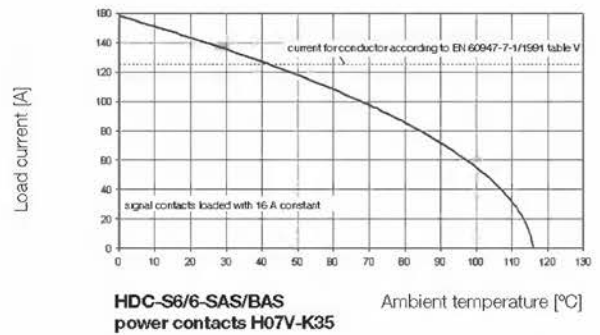
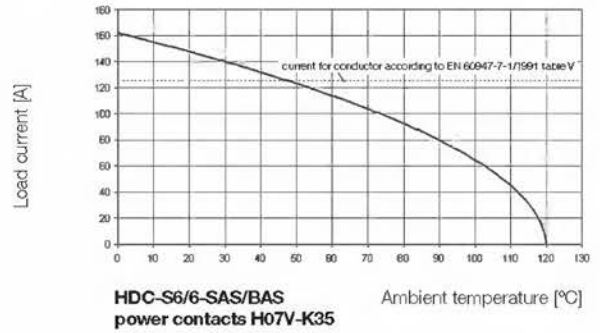
Size 6

MixMate – 6 power contacts/12 signal contacts



Size 8

MixMate – 6 power contacts/6 signal contacts



1000 V, 65 A, Size 3

4 + 

Inserts

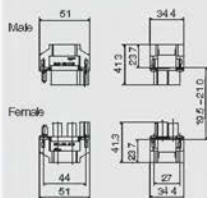


Axial screw connection

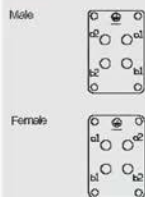


Insert	Designation	Order No.
Male	HDC S4 SAS	1789990000
Female	HDC S4 BAS	1789980000

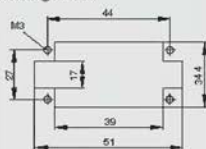
Dimensions



Arrangement of contacts



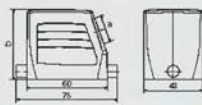
Mounting cut-out



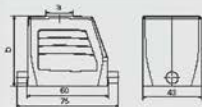
Selection of Housings RockStar® IP65
 Size 3

Hood
Hood, Cable Entry sideways

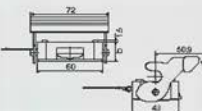

a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread		52	HDC 06B TSLU 1M20G	1788100000
M 20	with thread		52	HDC 06B TSLU 1M20G	1805930000
M 25	with thread		52	HDC 06B TSLU 1M25G	1788090000
M 25	with thread		72	HDC 16D TSLU 1M25G	1787480000


Hood, Cable Entry at top


a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread		52	HDC 06B TCLU 1M20G	1788120000
M 25	with thread		52	HDC 06B TCLU 1M25G	1788110000
M 25	with thread		72	HDC 16D TCLU 1M25G	1787500000
M 32	with thread		72	HDC 16D TCLU 1M32G	1787490000


Cover

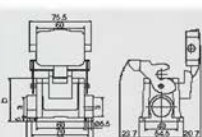

Version	Designation	Order No.
for hoods	HDC 06B DMCL 1LB	1665210000


Base
Bulkhead housing


Version	Cover	b (mm)	Designation	Order No.
		29	HDC 06B ALLU	1202100000
	with cover	47	HDC 06B ADLU	1202500000


Base housing


a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread		54	HDC 06B SLLU 2M20G	1788140000
M 20	with thread	with cover	72	HDC 06B SCLU 2M20G	1788170000
M 25	with thread		54	HDC 06B SLLU 2M25G	1788130000
M 25	with thread	with cover	72	HDC 06B SCLU 2M25G	1788160000


Cover


Version	Designation	Order No.
for bases	HDC 06B DCDL 2B0	1665200000



MixMate series - the high-capacity connectors

630 V, 80 A, Size 6

4+0 + 

Inserts

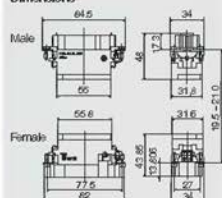
Axial screw connection



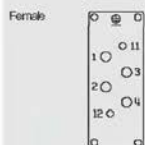
Insert	Designation	Order No.
Male	HDC S4 0 SAS	1789960000
Female	HDC S4 0 BAS	1789970000



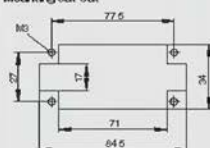
Dimensions



Arrangement of contacts



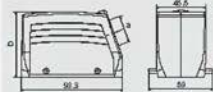
Mounting cut-out



Selection of Housings RockStar® IP65
 Size 6

Hood
Hood, Cable Entry sideways

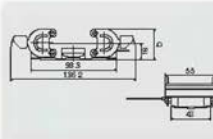

a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		61	HDC 16B TSBU 1M25G	1788180000
M 25	with thread		76	HDC 40D TSBU 1M25G	1787010000
M 32	with thread		76	HDC 40D TSBU 1M32G	1787000000


Hood, Cable Entry at top

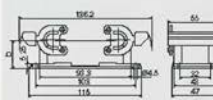

a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		61	HDC 16B TCBU 1M25G	1788210000
M 25	with thread		76	HDC 40D TCBU 1M25G	1787070000
M 32	with thread		76	HDC 40D TCBU 1M32G	1787060000


Cover

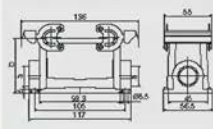

Version	Designation	Order No.
for hoods	HDC 16B DMDQ 2QB	1665270000


Base
Bulkhead housing

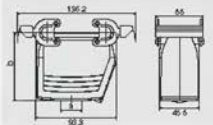

Version	Cover	b (mm)	Designation	Order No.
		29	HDC 16B ABU	1209600000


Base housing

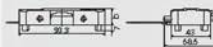

a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		64	HDC 16B SBU 2M25G	1788240000
M 25	with thread		84	HDC 40D SBU 2M25G	1787120000
M 32	with thread		84	HDC 40D SBU 2M32G	1787110000


Coupling hood


a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		79	HDC 40D RBU 1M25G	1787200000
M 32	with thread		79	HDC 40D RBU 1M32G	1787190000


Cover


Version	Designation	Order No.
for bases	HDC 16B DCDQ 4BO	1665260000



630 V, 48 A, Size 6

6+12 + 

Inserts

Axial screw connection

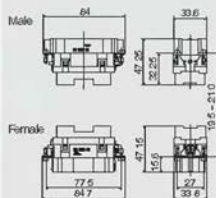


Insert	Designation	Order No.
Male	HDC S6 12 SAS	T790000000
Female	HDC S6 12 BAS	T790010000

Note Please note, the signal contacts are designed for a rated voltage of 400V and a rated current of 16A.



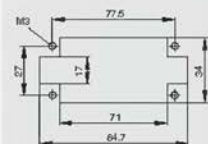
Dimensions



Arrangement of contacts



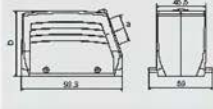
Mounting cut-out



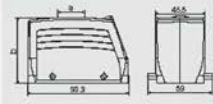
Selection of Housings RockStar® IP65
 Size 6

Hood
Hood, Cable Entry sideways

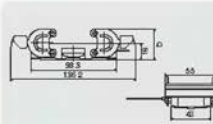

a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		61	HDC 16B TSBU 1M25G	1788180000
M 25	with thread		76	HDC 40D TSBU 1M25G	1787010000
M 32	with thread		76	HDC 40D TSBU 1M32G	1787000000


Hood, Cable Entry at top

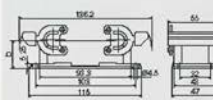

a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		61	HDC 16B TCBU 1M25G	1788210000
M 25	with thread		76	HDC 40D TCBU 1M25G	1787070000
M 32	with thread		76	HDC 40D TCBU 1M32G	1787060000


Cover

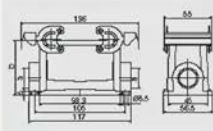

Version	Designation	Order No.
for hoods	HDC 16B DMDQ 2QB	1665270000


Base
Bulkhead housing

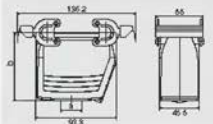

Version	Cover	b (mm)	Designation	Order No.
		29	HDC 16B ABU	1209600000


Base housing

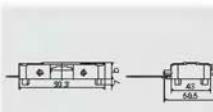

a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		64	HDC 16B SBU 2M25G	1788240000
M 25	with thread		84	HDC 40D SBU 2M25G	1787120000
M 32	with thread		84	HDC 40D SBU 2M32G	1787110000


Coupling hood


a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		79	HDC 40D RBU 1M25G	1787200000
M 32	with thread		79	HDC 40D RBU 1M32G	1787190000


Cover


Version	Designation	Order No.
for bases	HDC 16B DCDQ 4BO	1665260000



MixMate series - the high-capacity connectors

630 V, 100 A, Size 8

6+6 + 

Inserts



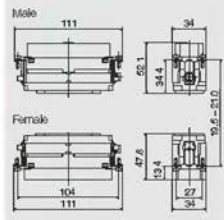
Axial screw connection



Insert	Designation	Order No.
Male	HDC S6 6 SAS	1790030000
Female	HDC S6 6 BAS	1790020000

Note Please note, the signal contacts are designed for a rated voltage of 400V and a rated current of 16A.

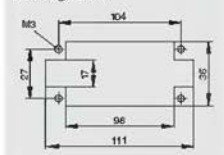
Dimensions



Arrangement of contacts



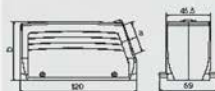
Mounting cut-out



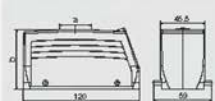
Selection of Housings RockStar® IP65
 Size 8

Hood
Hood, Cable Entry sideways

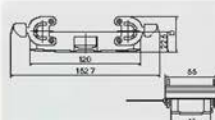

a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		61	HDC 24B TSBU 1M25G	1787760000
M 32	with thread		61	HDC 24B TSBU 1M32G	1787750000
M 25	with thread		76	HDC 64D TSBU 1M25G	1786780000
M 32	with thread		76	HDC 64D TSBU 1M32G	1786770000


Hood, Cable Entry at top

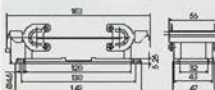

a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		61	HDC 24B TCBU 1M25G	1787820000
M 32	with thread		61	HDC 24B TCBU 1M32G	1787810000
M 32	with thread		76	HDC 64D TCBU 1M32G	1786830000


Cover

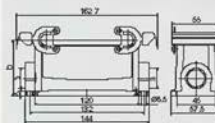

Version	Designation	Order No.
for hoods	HDC 24B DMDQ 2QB	1665640000


Base
Bulkhead housing


Version	Cover	b (mm)	Designation	Order No.
		29.3	HDC 24B ABU	1212400000


Base housing


a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		64	HDC 24B SBU 2M25G	1787870000
M 25	with thread		84	HDC 64D SBU 2M25G	1786890000
M 32	with thread		84	HDC 64D SBU 2M32G	1786830000


Coupling hood


a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		66	HDC 24B KBU 1M25G	1787920000
M 32	with thread		79	HDC 64D KBU 1M32G	1786960000


Cover


Version	Designation	Order No.
for bases	HDC 24B DCDQ 4BO	1665630000



HQ series – the powerful little connectors

Small dimensions, but nevertheless capable. The electrical ratings speak for themselves and they are also suitable for the proven HE crimp contacts.

That makes for manageability and clarity.





Technical data

Standards / approvals	
Standards	DIN EN 61984 DIN EN 60664-1
Approvals	UL/CSA
Inserts	
No. of poles	5, 8 (+PE)
Rated voltage	
- HQ 5	400 V (250 V Pole / PE)
- HQ 8	500 V
Rated voltage to UL/CSA	600 V
Rated current	16 A
Rated impulse withstand voltage	
- HQ 5	4 kV
- HQ 8	6 kV
Pollution severity	3
Insulation resistance	$\geq 10^8 \Omega$
Material	Glass-fibre reinforced PC (in UL list and approved for railway applications)
Temperature range	-40 °C ... +125 °C
Flammability to UL 94	V-0
Mechanical service life	
- Plugging cycles Ag - Surface	≥ 500
- Plugging cycles Au - Surface	≥ 500
Contact resistance	
Crimp connection	$\leq 4 \text{ m}\Omega$
Contacts / Material	
Sockets and plug-in contact	Copper alloy
Surface	Passivated silver, or 0.8 μm gold on 2 μm nickel
Crimp connection	
- Flexible conductor connection	0.5 – 4 mm ² (AWG 20 ... 12)
- Stripping length	7.5 mm
Clamping torque	
- Screw connection	
SD blades	
- Screw connection	
- Push In	
- Tension clamp connection	
PE connection	
- Clamping range	0.5 ... 4 mm ²
- solid / stranded with	0.5 ... 4 mm ² / 0.5 ... 4 mm ²
- flexible / flexible with	
wire end ferrule, DIN 46228 pt. 1	0.5 ... 4 mm ² / 0.5 ... 4 mm ²
- AWG conductor	AWG 20 ... 12
- Stripping length	10 mm
- Clamping torque	1.2 ... 1.6 Nm
- Blade dimensions	SD 0.8 x 4 mm or PZ 1

Note: Switch off power supply before handling plug-in connectors.

Overview

		Rated voltage	Rated current	No. of poles	Tension clamp connection	Screw conn. with wire guard fitting	Crimp connection	Push In	Axial screw connection	Page
		400 V	16 A	5 + ⚡			•			B.106
		500 V	16 A	8 + ⚡			•			B.108

HQ series - the powerful little connectors

400 V, 16 A, Size 1

5 + 

Inserts



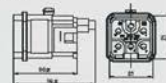
Crimp connection



Insert	Designation	Order No.
Male	HDC HQ35 MC	1912440000
Female	HDC HQ35 FC	1912460000

Dimensions

Male



Female



Accessories

Crimp contacts

Surface silver



Surface gold



Qty.	Male	Order No.	Female	Order No.
100	HDC-C-HE-SM0 5AG	1200500000	HDC-C-HE-EM0 5AG	1201100000
100	HDC-C-HE-SM0 75-1AG	1200600000	HDC-C-HE-EM0 75-1AG	1201200000
100	HDC-C-HE-SM1 5AG	1200700000	HDC-C-HE-EM1 5AG	1201300000
100	HDC-C-HE-SM2 5AG	1200800000	HDC-C-HE-EM2 5AG	1201400000
100	HDC-C-HE-SM4 0AG	1200900000	HDC-C-HE-EM4 0AG	1201500000

Qty.	Male	Order No.	Female	Order No.
100	HDC-C-HE-SM0 5AU	1651420000	HDC-C-HE-EM0 5AU	1651470000
100	HDC-C-HE-SM0 75-1AU	1651430000	HDC-C-HE-EM0 75-1AU	1651480000
100	HDC-C-HE-SM1 5AU	1651440000	HDC-C-HE-EM1 5AU	1651490000
100	HDC-C-HE-SM2 5AU	1651450000	HDC-C-HE-EM2 5AU	1651500000
100	HDC-C-HE-SM4 0AU	1651460000	HDC-C-HE-EM4 0AU	1651510000



Single contacts

Conductor mm² AWG No.

0.50	20
0.75-1.00	18
1.50	16
2.50	14
4.00	12

Tools



Tool	Order No.
Crimping tool CTX Crt 1 6/2 5	9018490000
Contact removal tool Removal Tool HE	1866750000

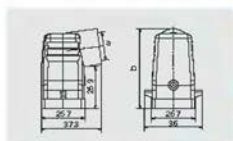
Selection of Housings RockStar® IP65
 Size 1

Hood

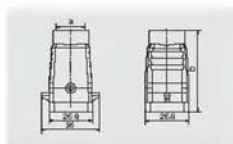
material: Diecast aluminum

Hood, Cable Entry sideways

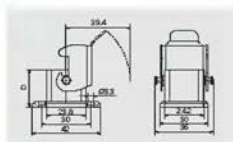

a	Version	Cover	b (mm)	Designation	Order No.
M 20		with thread	49.2	HDC 04A TWLU 1M20G	1783310000


Hood, Cable Entry at top

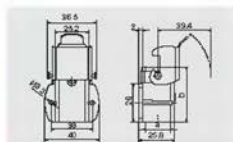

a	Version	Cover	b (mm)	Designation	Order No.
M 20		with thread	50	HDC 04A TCLU 1M20G	1783320000


Base
Bulldozer housing

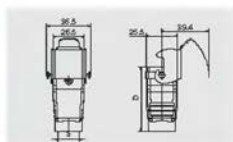

a	Version	Cover	b (mm)	Designation	Order No.
M 20		with thread	23	HDC 04A ALLU	1497600000


Base housing

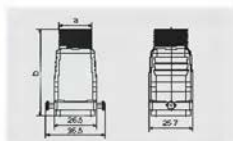

a	Version	Cover	b (mm)	Designation	Order No.
M 20		with thread	25.8	HDC 04A SLU 1M20G	1783330000


Coupling hood

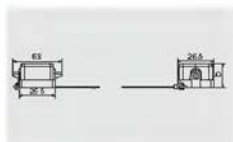

a	Version	Cover	b (mm)	Designation	Order No.
M 20		with thread	53.5	HDC 04A KCLU 1M20G	1783340000


Screw Mounting Housing


a	Version	Cover	b (mm)	Designation	Order No.
M 20		with thread	54	HDC 04A ELU 1M20G	1900320000
PG 13,5		with thread	54	HDC 04A ELU 1PG13G	1900330000
PG 13,5		with thread	54	HDC 04A ELU 1PG13G EXT	1900350000


Cover


a	Version	Designation	Order No.
	for female insert	HDC 04A DM/DL 2B0	1665750000
	for male insert	HDC 04A DDDL 2B0	1665740000



HQ series - the powerful little connectors

500 V, 16 A

8 + 

Inserts



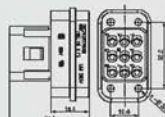
Crimp connection



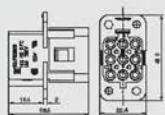
Insert	Designation	Order No.
Male	HDC HQ 8 MC	1919970000
Female	HDC HQ 8 FC	1919980000

Dimensions

Male



Female



Accessories

Crimp contacts

Surface silver

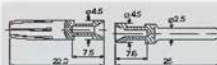


Surface gold



Qty.	Male	Order No.	Female	Order No.
100	HDC-C-HE-SM0 5AG	1200500000	HDC-C-HE-EM0 5AG	1201100000
100	HDC-C-HE-SM0 75-1AG	1200600000	HDC-C-HE-EM0 75-1AG	1201200000
100	HDC-C-HE-SM1 5AG	1200700000	HDC-C-HE-EM1 5AG	1201300000
100	HDC-C-HE-SM2 5AG	1200800000	HDC-C-HE-EM2 5AG	1201400000
100	HDC-C-HE-SM4 0AG	1200900000	HDC-C-HE-EM4 0AG	1201500000

Qty.	Male	Order No.	Female	Order No.
100	HDC-C-HE-SM0 5AU	1651420000	HDC-C-HE-EM0 5AU	1651470000
100	HDC-C-HE-SM0 75-1AU	1651430000	HDC-C-HE-EM0 75-1AU	1651480000
100	HDC-C-HE-SM1 5AU	1651440000	HDC-C-HE-EM1 5AU	1651490000
100	HDC-C-HE-SM2 5AU	1651450000	HDC-C-HE-EM2 5AU	1651500000
100	HDC-C-HE-SM4 0AU	1651460000	HDC-C-HE-EM4 0AU	1651510000



Single contacts

Conductor mm²

Conductor mm ²	AWG No.
0.50	20
0.75-1.00	18
1.50	16
2.50	14
4.00	12

Tools



Tool	Order No.
Crimping tool CTX Gm 1 6/2 5	9018490000
Contact removal tool Removal Tool HE	1866750000

CabinetMate DSTV-HE series – connector at front, terminal at rear

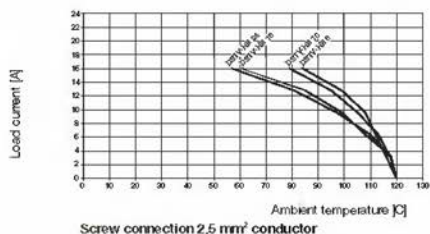
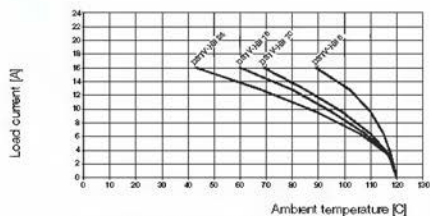
CabinetMate DSTV-HE offers a simple solution for connecting conductors from inside the switch cabinet. From the outside of the switch cabinet, users can connect to their equipment using HE series inserts.







Technical data

Standards / approvals	
Standards	DIN EN 61984 DIN EN 60664-1
Approvals	UL (E)
Contact inserts	
No. of poles	6, 10, 16, 24 (+FE)
Rated voltage	500 V
Rated current	16 A
Rated impulse withstand voltage	6 kV
Pollution severity	3
Insulation resistance	$10^{10} \Omega$
Material	Glass fibre reinforced thermo-plastic moulding (UL listed)
Temperature range	-40° ... +110°C
Flammability to UL 94	V-2
Mechanical service life	
Plugging cycles Ag	≤ 200
Rated voltage to UL / CSA	600 V AC/DC
Contacts	
Material	Copper alloy
Surface	3 µm Ag
Clamping range	
Screw connection	0.5 ... 4 mm ² / AWG 20 ... 12
Tension clamp connection	0.5 ... 2.5 mm ² / AWG 20 ... 14
Clamping torque	0.4 ... 0.7 Nm
Stripping length	
Screw connection	12.0 mm
Tension clamp connection	6.0 mm

Derating curves



Overview

	Rated voltage	Rated current	No. of poles	Tension clamp connection	Screw conn. with wire guarding	Crimp connection	Push in	Axial screw connection	Page
	500 V	16 A	6 + ⊕	•	•				B.112
	500 V	16 A	10 + ⊕	•	•				B.114
	500 V	16 A	16 + ⊕	•	•				B.116
	500 V	16 A	24 + ⊕	•	•				B.118

500 V, 16 A, Size 3

6 + 

Inserts

Tension clamp connection



Insert	Designation	Order No.
Male	DSTV HE SP6 ZF	1837510000
Female	DSTV HE BP6 ZF	1837430000
Male	DSTV HE SL6 ZF	1837470000
Female	DSTV HE BL6 ZF	1837390000

Screw connection



Insert	Designation	Order No.
Male	DSTV HE SP6 S	1848740000
Female	DSTV HE BP6 S	1848600000
Male	DSTV HE SL6 S	1848690000
Female	DSTV HE BL6 S	1848550000

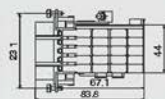
SR – PE conductor right
 BR – PE conductor right
 SL – PE conductor left
 BL – PE conductor left

ZF – Tension clamp connection
 S – Screw connection

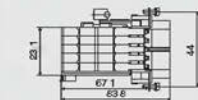


Dimensions

earthing contact on the left



earthing contact on the right



Selection of Housings RockStar® IP65

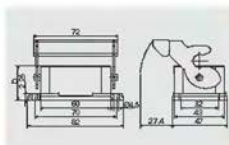


Base

Bulkhead housing



Version	Cover	b (mm)	Designation	Order No.
		29	HDC 06B ALLU	1202100000
	with cover	47	HDC 06B ADLU	1202500000



500 V, 16 A, Size 4

10 + 

Inserts



Tension clamp connection



Insert	Designation	Order No.
Male	DSTV HE SR10 ZF	1837520000
Female	DSTV HE BR10 ZF	1837440000
Male	DSTV HE SL10 ZF	1837480000
Female	DSTV HE BL10 ZF	1837400000

Screw connection



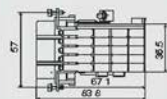
Insert	Designation	Order No.
Male	DSTV HE SR10 S	1848750000
Female	DSTV HE BR10 S	1849610000
Male	DSTV HE SL10 S	1849680000
Female	DSTV HE BL10 S	1848770000

SR – PE conductor right
 BR – PE conductor right
 SL – PE conductor left
 BL – PE conductor left

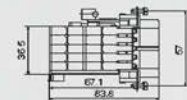
ZF – Tension clamp connection
 S – Screw connection

Dimensions

earthing contact on the left



earthing contact on the right



Selection of Housings RockStar® IP65

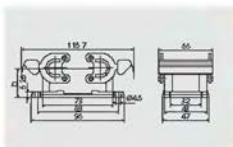


Base

Bulkhead housing



Version	Cover	b (mm)	Designation	Order No.
		29.3	HDC 10B ABU	1205000000



500 V, 16 A, Size 6

16 + 

Inserts

Tension clamp connection



Insert	Designation	Order No.
Male	DSTV HE SR16 ZF	1837590000
Female	DSTV HE BR16 ZF	1837450000
Male	DSTV HE SL16 ZF	1837490000
Female	DSTV HE BL16 ZF	1837410000

Screw connection



Insert	Designation	Order No.
Male	DSTV HE SR16 S	1848760000
Female	DSTV HE BR16 S	1849620000
Male	DSTV HE SL16 S	1848700000
Female	DSTV HE BL16 S	1848580000

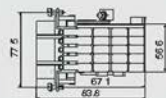
SR – PE conductor right
 BR – PE conductor right
 SL – PE conductor left
 BL – PE conductor left

ZF – Tension clamp connection
 S – Screw connection

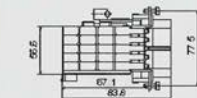


Dimensions

earthing contact on the left



earthing contact on the right



Selection of Housings RockStar® IP65

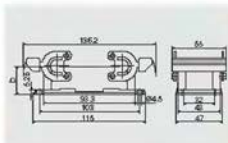


Base

Bulkhead housing



Version	Cover	b (mm)	Designation	Order No.
		29	HDC 16B ABU	1209600000



500 V, 16 A, Size 8

24 + 

Inserts

Tension clamp connection



Insert	Designation	Order No.
Male	DSTV HE SR24 ZF	1837540000
Female	DSTV HE BR24 ZF	1837460000
Male	DSTV HE SL24 ZF	1837500000
Female	DSTV HE BL24 ZF	1837420000

Screw connection



Insert	Designation	Order No.
Male	DSTV HE SR24 S	1848770000
Female	DSTV HE BR24 S	1848630000
Male	DSTV HE SL24 S	1848730000
Female	DSTV HE BL24 S	1848690000

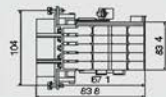
SR – PE conductor right
 BR – PE conductor right
 SL – PE conductor left
 BL – PE conductor left

ZF – Tension clamp connection
 S – Screw connection

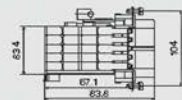


Dimensions

earthing contact on the left



earthing contact on the right



Selection of Housings RockStar® IP65

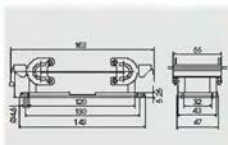


Base

Bulkhead housing



Version	Cover	b (mm)	Designation	Order No.
		29.3	HDC 24B ABU	t212400000



CabinetMate DSTV-HD series – connector at front, terminal at rear

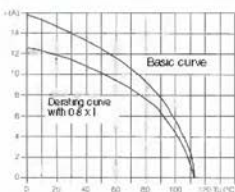
CabinetMate DSTV-HD offers a simple solution for connecting conductors from inside the switch cabinet. Usable with inserts from the HD series.



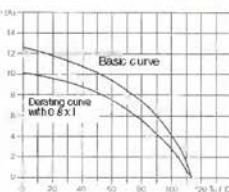
Technical data

Standards / approvals	
Standards	DIN EN 61984 DIN EN 60664-1
Approvals	
Approvals	UL Ⓢ
Contact inserts	
No. of poles	16, 24, 40, 64 (+ PE)
Rated voltage (VDE 110/2 79)	250 V ~ / 300 V -
Rated current	10 A
Test voltage	2.5 kV
Insulation group	0
Specific contact resistance	$10^{16} \Omega/\text{cm}$
Insulation resistance	$10^{13} \Omega$
Material	Glass fibre reinforced thermoplastic moulding (UL listed)
Temperature range	-40° ... +125°C
Flammability to UL 94	V-0
Mechanical service life	
plugging cycles Ag	≤ 100
Nominal voltage to UL / CSA	600 V AC/DC
Contacts	
Material	Copper alloy
Surface	hard silver plated
Contact resistance	< 2 mΩ
Clamping range	0.5 ... 1.5 mm ² / AWG 20 ... 16
Clamping torque	0.4 Nm
Stripping length	10.0 mm

Derating curves







Test specimen DSTV-HD 16/HDC-HD-16
Conductor H07V-K 1.5 mm²



Test specimen DSTV-HD 64/HDC-HD-64
Conductor H07V-K 1.5 mm²

Overview

	Rated voltage	Rated current	No. of poles	Tension clamp connection	Screw conn. with wire guard spring	Crimp connection	Push In	Axial screw connection	Page
	250 V	10 A	16 + Ⓡ			•			B.122
	250 V	10 A	24 + Ⓡ			•			B.124
	250 V	10 A	40 + Ⓡ			•			B.126
	250 V	10 A	64 + Ⓡ			•			B.128

250 V, 10 A, Size 3

16 + 

Inserts

Screw connection



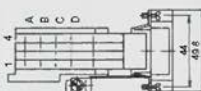
Insert	Designation	Order No.
Male	DSTV-HD-SR 16 AU	1568370000
Female	DSTV-HD-BR 16 AU	1568330000
Female	DSTV-HD-BR 16 SN	1568650000
Male	DSTV-HD-SL 16 AU	1568450000
Female	DSTV-HD-BL 16 SN	1568730000

SR – PE conductor right
 BR – PE conductor right
 SL – PE conductor left
 BL – PE conductor left

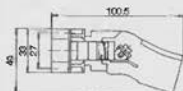
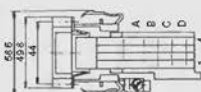


Dimensions

earthing contact on the left



earthing contact on the right



Accessories

Snap-on tags



Qty.	Designation	Order No.	Designation	Order No.
1000	SF 10 BEZ 0-9	0332400000	SG 10 BEZ 4	0332500004
1000	SF 10 BEZ 1-10	0331500001	SG 10 BEZ 5	0332500005
1000	SF 10 BEZ 11-20	0331500011	SG 10 BEZ 6	0332500006
1000	SG 10 BEZ 0	0332501000	SG 10 BEZ 7	0332500007
1000	SG 10 BEZ 1	0332500001	SG 10 BEZ 8	0332500008
1000	SG 10 BEZ 2	0332500002	SG 10 BEZ 9	0332500009
1000	SG 10 BEZ 3	0332500003	SD 10	0332300000

Selection of Housings RockStar® IP65

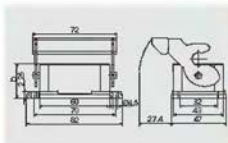


Base

Bulkhead housing



Version	Cover	b (mm)	Designation	Order No.
		29	HDC 06B ALLU	1202100000
	with cover	47	HDC 06B ADLU	1202500000



250 V, 10 A, Size 4

24 + 

Inserts

Screw connection



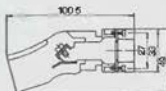
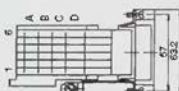
Insert	Designation	Order No.
Male	DSTV-HD-SR 24 SN	1566700000
Female	DSTV-HD-BR 24 SN	1566660000
Female	DSTV-HD-BL 24 AU	1566420000
Female	DSTV-HD-BL 24 SN	1566740000

SR – PE conductor right
 BR – PE conductor right
 SL – PE conductor left
 BL – PE conductor left

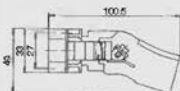


Dimensions

earthing contact on the left



earthing contact on the right



Accessories

Snap-on tags



Qty.	Designation	Order No.	Designation	Order No.
1000	SF 10 BEZ 0-9	0332400000	SG 10 BEZ 4	0332500004
1000	SF 10 BEZ 1-10	0331500001	SG 10 BEZ 5	0332500005
1000	SF 10 BEZ 11-20	0331500011	SG 10 BEZ 6	0332500006
1000	SG 10 BEZ 0	0332501000	SG 10 BEZ 7	0332500007
1000	SG 10 BEZ 1	0332500001	SG 10 BEZ 8	0332500008
1000	SG 10 BEZ 2	0332500002	SG 10 BEZ 9	0332500009
1000	SG 10 BEZ 3	0332500003	SD 10	0332300000

Selection of Housings RockStar® IP65

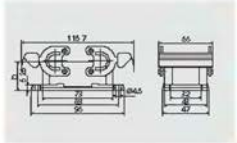


Base

Bulkhead housing



Version	Cover	b (mm)	Designation	Order No.
		29.3	HDC 10B ABU	1205000000



250 V, 10 A, Size 6

40 + 

Inserts

Screw connection



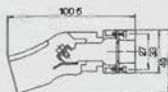
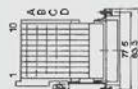
Insert	Designation	Order No.
Male	DSTV-HD-SR 40 AU	1566390000
Male	DSTV-HD-SR 40 SN	1566210000
Female	DSTV-HD-BR 40 AU	1566350000
Female	DSTV-HD-BR 40 SN	1566670000
Male	DSTV-HD-SL 40 AU	1566470000
Male	DSTV-HD-SL 40 SN	1566290000
Female	DSTV-HD-BL 40 AU	1566430000
Female	DSTV-HD-BL 40 SN	1566250000

SR – PE conductor right
 BR – PE conductor right
 SL – PE conductor left
 BL – PE conductor left

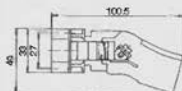
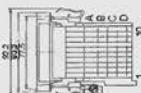


Dimensions

earthing contact on the left



earthing contact on the right



Accessories

Snap-on tags



Qty.	Designation	Order No.	Designation	Order No.
1000	SF 10 BEZ 0-9	0332400000	SG 10 BEZ 4	0332500004
1000	SF 10 BEZ 1-10	0331500001	SG 10 BEZ 5	0332500005
1000	SF 10 BEZ 11-20	0331500011	SG 10 BEZ 6	0332500006
1000	SG 10 BEZ 0	0332501000	SG 10 BEZ 7	0332500007
1000	SG 10 BEZ 1	0332500001	SG 10 BEZ 8	0332500008
1000	SG 10 BEZ 2	0332500002	SG 10 BEZ 9	0332500009
1000	SG 10 BEZ 3	0332500003	SD 10	0332300000

Selection of Housings RockStar® IP65

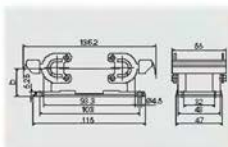


Base

Bulkhead housing



Version	Cover	b (mm)	Designation	Order No.
		29	HDC 16B ABU	1209600000



CabinetMate DSTV-HD series – connector at front, terminal at rear

250 V, 10 A, Size 8

64 + 

Inserts

Screw connection



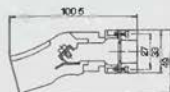
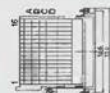
Insert	Designation	Order No.
Male	DSTV-HD-SR 64 AU	1569400000
Male	DSTV-HD-SR 64 SN	1566720000
Female	DSTV-HD-BR 64 AU	1566360000
Female	DSTV-HD-BR 64 SN	1566380000
Male	DSTV-HD-SL 64 AU	1569430000
Male	DSTV-HD-SL 64 SN	1566380000
Female	DSTV-HD-BL 64 AU	1569440000
Female	DSTV-HD-BL 64 SN	1566760000

SR – PE conductor right
 BR – PE conductor right
 SL – PE conductor left
 BL – PE conductor left

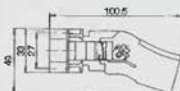
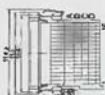


Dimensions

earthing contact on the left



earthing contact on the right



Accessories

Snap-on tags



Qty.	Designation	Order No.	Designation	Order No.
1000	SF 10 BEZ 0-9	0332400000	SG 10 BEZ 4	0332500004
1000	SF 10 BEZ 1-10	0331500001	SG 10 BEZ 5	0332500005
1000	SF 10 BEZ 11-20	0331500011	SG 10 BEZ 6	0332500006
1000	SG 10 BEZ 0	0332501000	SG 10 BEZ 7	0332500007
1000	SG 10 BEZ 1	0332500001	SG 10 BEZ 8	0332500008
1000	SG 10 BEZ 2	0332500002	SG 10 BEZ 9	0332500009
1000	SG 10 BEZ 3	0332500003	SD 10	0332300000

Selection of Housings RockStar® IP65

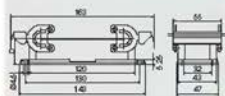


Base

Bulkhead housing



Version	Cover	b (mm)	Designation	Order No.
		29.3	HDC 24B ABU	t212400000



RockStar® ConCept modular system

RockStar® ConCept modular system	Overview	C.2
	ConCept modules	C.3
	ConCept bus modules	C.12
	ConCept construction frame	C.18
	ModuFlex C	C.30

RockStar® ConCept modular system



ConCept is a modular system consisting of modules and frames. Together they form a complete insert that integrates without difficulty into an HDC housing.

The system allows you to choose combinations of different modules yourself and insert them in a frame.

The following modules are available:

- ConCept modules for conventional conductors
- ConCept bus modules for fieldbus connections
- ConCept fibre optic modules
- ConCept pneumatic modules

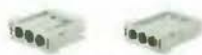
You have two alternatives:

1. Combine modules with a ConCept module frame which you then integrate as an insert into an HDC housing.
2. Insert the modules individually into ModuFlex-C coupling frames and lock these frames together to form a block. In IP20 environments, this block is optionally used:
 - on mounting rails
 - in cable trays
 - on flat surfaces

The advantages:

- You save space – you need only one plug-in connector with ConCept inserts instead of several plug-in connectors with conventional fixed pole inserts.
- You save costs – because you only need one plug-in connector instead of many.

CM-3 ConCept module / turned contacts



Technical Data

Contact inserts

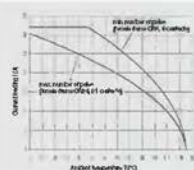
Rated current	40 A
Rated voltage	630 V
Rated impulse withstand voltage	8.0 kV
Pollution severity	3
Insulation resistance	$10^8 \Omega$
Overvoltage category	III
Volume resistance	$\leq 4 \text{ m}\Omega$
UL 94 flammability class	V-0

Contacts

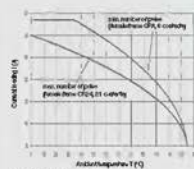
Contact dia	3.6 mm
Connection cross-section	1.5-10 mm ²
AWG conductor	AWG 16-AWG 8
Base material	copper alloy
Silver surface	3 μm
Gold surface	

Note

Ring cable lugs must be used at the connection to the PE conductor for conductor cross-sections of 6 mm² to 10 mm². The rated voltage of 630V is also valid for 3-phase 4- or 3-conductor AC systems with rated voltages up to 630 V - acc. to DIN EN 60664-1



ConCept module CM-3
Conductor H07V-K 4.0 mm²



ConCept module CM-3
Conductor H07V-K 10.0 mm²

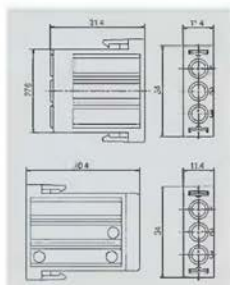
Modules

Crimp connection



Insert	Designation	Order No.
Male	HDC CM 3 MC	1753360000
Female	HDC CM 3 FC	1758370000
Male	HDC CM 3 MC MR	1879030000
Female	HDC CM 3 FC MR	1879040000

Note: MR = module release lever



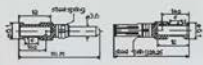
Accessories

Crimp contacts

Surface silver



Qty.	Male	Order No.	Female	Order No.
100	HDC-C-M3-SM1 5AG	1698120000	HDC-C-M3-EM1 6AG	1698130000
100	HDC-C-M3-SM2 5AG	1698140000	HDC-C-M3-EM2 5AG	1698150000
100	HDC-C-M3-SM4 0AG	1682200000	HDC-C-M3-EM4 0AG	1682270000
100	HDC-C-M3-SM6 0AG	1682230000	HDC-C-M3-EM6 0AG	1682290000
100	HDC-C-M3-SM10 0AG	1682300000	HDC-C-M3-EM10 0AG	1682310000



conductor cross-section	insulation stripping length
1.50 mm ²	AWG 16 10 mm
2.50 mm ²	AWG 14 10 mm
4.00 mm ²	AWG 12 10 mm
6.00 mm ²	AWG 10 10 mm
10.00 mm ²	AWG 7 10 mm

Tools



Crimping tool	Order No.
CTX CM 3 6	9018430000
Contact removal tool	Order No.
Removal Tool CM 3	1866710000

CM-HE ConCept module / turned contacts



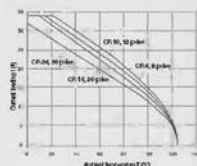
Technical Data

Contact inserts

Rated current	25 A
Rated voltage	630 V
Rated impulse withstand voltage	8.0 kV
Pollution severity	3
Insulation resistance	$10^9 \Omega$
Overvoltage category	III
Volume resistance	$\leq 4 \text{ m}\Omega$
UL 94 flammability class	V-0

Contacts

Contact dia	2.5 mm
Connection cross-section	0.6-4 mm ²
AWG conductor	AWG 20-AWG 12
Base material	copper alloy
Silver surface	3 μm
Gold surface	0.8 μm

ConCept module CM-HE
Conductor H07V-K 4.0 mm²

Note
fuses must be used with PE conductor cross-sections $\leq 0.75 \text{ mm}^2$

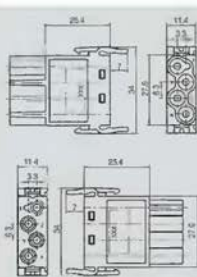
Modules

Crimp connection



Insert	Designation	Order No.
Male	HDC CM HE 4 MC	1861920000
Female	HDC CM HE 4 FC	1861900000
Male	HDC CM HE 4 MC MR	1758340000
Female	HDC CM HE 4 FC MR	1758350000

Note MR = module release lever



Accessories

Crimp contacts

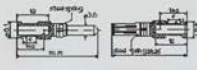
Surface silver



Surface gold



Qty.	Male	Order No.	Female	Order No.
100	HDC-C-HE-SM0 5AG	1200500000	HDC-C-HE-EM0 5AG	1201100000
100	HDC-C-HE-SM0 75-1AG	1200600000	HDC-C-HE-EM0 75-1AG	1201200000
100	HDC-C-HE-SM1 5AG	1200700000	HDC-C-HE-EM1 5AG	1201300000
100	HDC-C-HE-SM2 5AG	1200800000	HDC-C-HE-EM2 5AG	1201400000
100	HDC-C-HE-SM4 0AG	1200900000	HDC-C-HE-EM4 0AG	1201500000
100	HDC-C-HE-SM0 5AU	1651420000	HDC-C-HE-EM0 5AU	1651470000
100	HDC-C-HE-SM0 75-1AU	1651430000	HDC-C-HE-EM0 75-1AU	1651480000
100	HDC-C-HE-SM1 5AU	1651440000	HDC-C-HE-EM1 5AU	1651490000
100	HDC-C-HE-SM2 5AU	1651450000	HDC-C-HE-EM2 5AU	1651500000
100	HDC-C-HE-SM4 0AU	1651460000	HDC-C-HE-EM4 0AU	1651510000



conductor cross-section	insulation stripping length
1.50 mm ²	AWG 16 10 mm
2.50 mm ²	AWG 14 10 mm
4.00 mm ²	AWG 12 10 mm
6.00 mm ²	AWG 10 10 mm
10.00 mm ²	AWG 7 10 mm

Tools



Tool	Order No.
Crimping tool CTX CM 1 6/2 5	9018490000
Contact removal tool Removal Tool HE	1866750000

CM-4 ConCept module with tension spring connection



Technical Data

Contact inserts

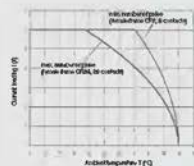
Rated current	14 A
Rated voltage	400 V
Rated impulse withstand voltage	6.0 kV
Pollution severity	3
Insulation resistance	$10^9 \Omega$
Overvoltage category	III
Volume resistance	5 m Ω
UL 94 flammability class	V-0

Contacts

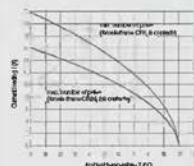
Contact dia	2.5 mm
Connection cross-section	0.6-2.5 mm ²
AWG conductor	AWG 20-AWG 14
Base material	copper alloy
Silver surface	3 μ m
Gold surface	

Note

female must be used with PE conductor cross-sections $\leq 0.75 \text{ mm}^2$



ConCept module CM-4BZF4SZF
Conductor H06V-K 0.5 mm²



ConCept module CM-4BZF4SZF
Conductor H07V-K 2.5 mm²

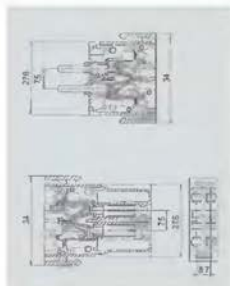
Modules

Tension clamp connection



Insert	Designation	Order No.
Male	HDC CM 4 MT AG	1730120000
Female	HDC CM 4 FT AG	1730130000

Note



CM-5 ConCept module / turned contacts

Technical Data

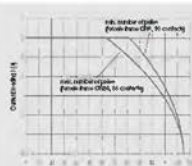
Contact inserts

Rated current	20 A
Rated voltage	250 V
Rated impulse withstand voltage	6.0 kV
Pollution severity	3
Insulation resistance	10 ⁹ Ω
Overvoltage category	III
Volume resistance	≤ 4 mΩ
UL 94 flammability class	V-0

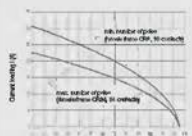
Contacts

Contact dia	2.5 mm
Connection cross-section	0.75-4 mm ²
AWG conductor	AWG 20-AWG 12
Base material	copper alloy
Silver surface	3 μm
Gold surface	

Note
families must be used with PE conductor cross-sections ≤ 0.75 mm²



ConCept module CM-5
Conductor H05V-K 0.5 mm²



ConCept module CM-5
Conductor H07V-K 4.0 mm²

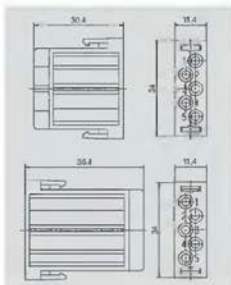
Modules

Crimp connection



Insert	Designation	Order No.
Male	HDC CM 5 MG	1759380000
Female	HDC CM 5 FC	1759390000
Male	HDC CM 5 MG MR	1879020000
Female	HDC CM 5 FC MR	1879010000

Note MR = module release lever



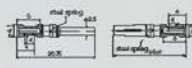
Accessories

Crimp contacts

Surface silver



Qty.	Male	Order No.	Female	Order No.
100	HDC-C-M5-SM0 75-1 0AG	1682340000	HDC-C-M5-EM0 75-1 0AG	1682350000
100	HDC-C-M5-SM1 5AG	1682360000	HDC-C-M5-EM1 5AG	1682370000
100	HDC-C-M5-SM2 5AG	1682380000	HDC-C-M5-EM2 5AG	1682390000
100	HDC-C-M5-SM4 0AG	1682400000	HDC-C-M5-EM4 0AG	1682410000



conductor cross-section	insulation stripping length
0.75 - 1.00 mm ²	AWG 18 8 mm
1.60 mm ²	AWG 16 8 mm
2.50 mm ²	AWG 14 8 mm
4.00 mm ²	AWG 12 8 mm

Tools



Tool	Order No.
Crimping tool CTX CM 1 6/2 5	9018490000
Contact removal tool Removal Tool CM 5	1866720000

CM-10 ConCept module / turned contacts



Technical Data

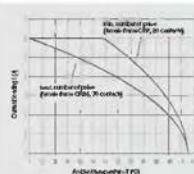
Contact inserts

Rated current	10 A
Rated voltage	250 V
Rated impulse withstand voltage	4.0 kV
Pollution severity	3
Insulation resistance	10 ⁹ Ω
Overvoltage category	III
Volume resistance	≤4 mΩ
UL 94 flammability class	V-0

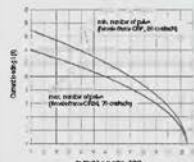
Contacts

Contact dia	1.6 mm
Connection cross-section	0.14-2.5 mm ²
AWG conductor	AWG 26-AWG 14
Base material	copper alloy
Silver surface	3 μm
Gold surface	0.8 μm

Note
families must be used with PE conductor cross-sections ≤ 0.75 mm²



ConCept module CM-10
Conductor H05V-K 0.5 mm²



ConCept module CM-10
Conductor H07V-K 2.5 mm²

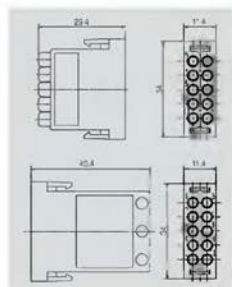
Modules

Crimp connection



Insert	Designation	Order No.
Male	HDC CM 10 MC	1758400000
Female	HDC CM 10 FC	1758410000
Male	HDC CM 10 MC MFR	1862050000
Female	HDC CM 10 FC MFR	1862030000

Note MFR = module release lever



Accessories

Crimp contacts

Surface silver

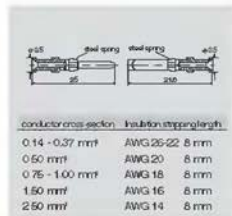


Qty.	Male	Order No.	Female	Order No.
100	HDC-C-HD-SM0 14-0.37AG	1651520000	HDC-C-HD-EM0 14-0.37AG	1651570000
100	HDC-C-HD-SM0 5AG	1651530000	HDC-C-HD-EM0 5AG	1651580000
100	HDC-C-HD-SM0 75-1AG	1601750000	HDC-C-HD-EM0 75-1AG	1601760000
100	HDC-C-HD-SM1 5AG	1651550000	HDC-C-HD-EM1 5AG	1651600000
100	HDC-C-HD-SM2 5AG	1651560000	HDC-C-HD-EM2 5AG	1651610000

Surface gold



100	HDC-C-HD-SM0 14-0.37AU	1651620000	HDC-C-HD-EM0 14-0.37AU	1651670000
100	HDC-C-HD-SM0 6AU	1651630000	HDC-C-HD-EM0 6AU	1651680000
100	HDC-C-HD-SM0 75-1AU	1651640000	HDC-C-HD-EM0 75-1AU	1651690000
100	HDC-C-HD-SM1 6AU	1651650000	HDC-C-HD-EM1 6AU	1651700000
100	HDC-C-HD-SM2 6AU	1651660000	HDC-C-HD-EM2 6AU	1651710000



Tools



Tool	Order No.
Crimping tool CTX CM 1 6/2 5	9018490000
Contact removal tool Removal Tool HD	1868730000

CM-20 ConCept module / turned contacts

Technical Data

Contact inserts

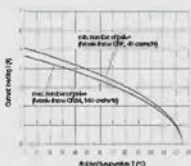
Rated current	4 A
Rated voltage	100 V
Rated impulse withstand voltage	1.6 kV
Pollution severity	3
Insulation resistance	10 ¹⁰ Ω
Overvoltage category	III
Volume resistance	≤ 4 mΩ
UL 94 flammability class	V-0

Contacts

Contact dia	1 mm
Connection cross-section	0.08-0.62 mm ²
AWG conductor	AWG 28-AWG 20
Base material	copper alloy
Silver surface	
Gold surface	0.8 µm

Note

female must be used with PE conductor cross-sections ≤ 0.75 mm²



ConCept-Modul CM-20
AWG-Conductor 20/15

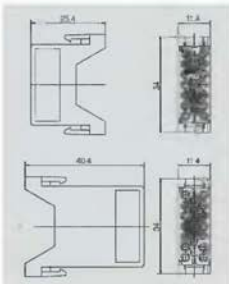
Modules

Crimp connection



Insert	Designation	Order No.
Male	HDC CM 20 MC	1758420000
Female	HDC CM 20 FC	1758430000

Note



Accessories

Crimp contacts

Surface gold



Qty.	Male	Order No.	Female	Order No.
300	HDC-C-M20-SCG0.08-0.2AU1682420000		HDC-C-M20-BCG0.08-0.2AU1682450000	
300	HDC-C-M20-SCG0.2-0.52AU1682440000		HDC-C-M20-BCG0.2-0.52AU1682450000	



conductor cross-section insulation stripping length
0.08 - 0.80 mm² AWG 28-24 2.6±0.6 mm
0.20 - 0.62 mm² AWG 24-20 2.6±0.6 mm

Tools



Tool	Order No.
Crimping tool HDC-CM-20/CZD9428P	1700900000
Contact removal tool Removal Tool CM 20	1866740000

CM High Current Module

Technical Data

Contact inserts

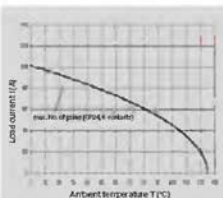
Rated current	82 A
Rated voltage	1000 V
Rated impulse withstand voltage	6.0 kV
Pollution severity	3
Insulation resistance	$10^8 \Omega$
Overvoltage category	III
Volume resistance	$\leq 4 \text{ m}\Omega$
UL 94 flammability class	V-0

Contacts

Contact dia	
Connection cross-section	4-16 mm ²
AWG conductor	AWG 12-AWG 6
Base material	copper alloy
Silver surface	3 μm
Gold surface	

Note

These modules are designed as double modules and may be put into ConCept frames.



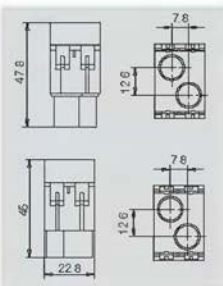
ConCept-Modul CM-2
Conductor 16 mm²

Modules

Screw connection



Insert	Designation	Order No.
Pin	HDC CM 1 MS + PE	1828380000
Socket	HDC CM 1 FS + PE	1828410000

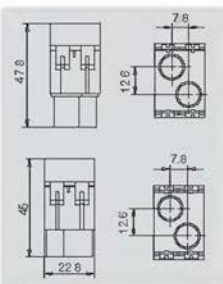


Modules

Screw connection



Insert	Designation	Order No.
Pin	HDC CM 2 MS	1828380000
Socket	HDC CM 2 FS	1828400000



CM Pneumatic

Technical data

Contact inserts

Material of modules	PA6 6 GF
Material of pneumatic valves	Ms 59 brass
Connection diameter of hose (inside)	2.5 mm or 4 mm
Outside diameter of hose, maximum	8 mm
Temperature range	-20°C to 100°C
Operating pressure of the modules	10 bar
Travel	4 mm

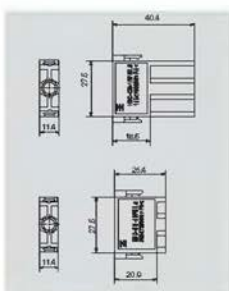


Note

Modules



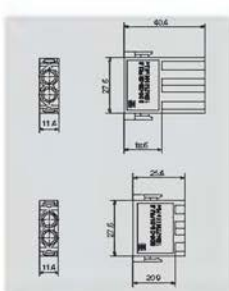
Insert	Designation	Order No.
Male	HDC-CM-1SPN2.5	1894730000
Female	HDC-CM-1BPN2.5	1894780000
Male	HDC-CM-1SPN4.0	1894740000
Female	HDC-CM-1BPN4.0	1894720000



Modules



Insert	Designation	Order No.
Male	HDC-CM-2SPN2.5	1894770000
Female	HDC-CM-2BPN2.5	1894750000
Male	HDC-CM-2SPN4.0	1894710000
Female	HDC-CM-2BPN4.0	1894760000



ConCept bus module for screened wires

Concept bus is ideal for transmitting highly sensitive signals in heavy-duty connectors.

Modules of the ConCept heavy-duty connector system offer many functions in a very small space with reliable protection from electromagnetic fields, moisture, dust and extreme mechanical loads.

By combining these with other modules, the power supply and other signals for the field device can be connected in a single plug-in connector.

The **Profibus-DP module with T-Connector function** enables uninterrupted operation of the fieldbus during servicing or when replacing a field device. The fieldbus system no longer has to be switched off, as was the case in the past, because the field device can simply be connected or disconnected during operation using the heavy-duty connector – "plug and play" now available for the first time for fieldbus solutions. The same heavy-duty connector also provides a reliable power supply for the connected fieldbus device.

On one side, Weidmüller uses the robust USB plug as connection system for the Profibus DP modules. This guarantees a high transmission rate of 1.5 Mbit/s and at least 200 plugging cycles. On the other side, screw terminals are used to connect the screened Profibus cables.

Advantages

- Simple screw connection
- Simple screen connection



Versions

- Bus connector
HDC CM BUS 4 ...
for screened wires
(for connecting 4 wires and screen)



- Bus connector with integrated T-ext
HDC CM BUS 2 ... PDP
for screened wires
(Profibus-DP solution = 2 wires and screen)



Technical data

Material data	HDC CM BUS 4 ...	HDC CM BUS 2 ... PDP
Insulation	Glass fibre reinforced PC	
Colour	Grey (similar to RAL 7032)	
Temperature range	-20°C to +85°C	

System characteristics

Connection technology	Screw connection	
No. of poles	4 + screen	2 + screen
Conductor capacity	0.08 ... 1.5 mm ²	As
	AWG 28 ... 16	Profibus DP

Stripping length 5 mm

Clamping capacity 2.1 ... 7 mm

(outer diameter of cable screen)

Stripped sheath length 19 mm

Rated data to VDE 0627

Rated current	1 A
Rated voltage	30 V
Transmission rate	max. 1.5 Mbit/s

Clamping torques

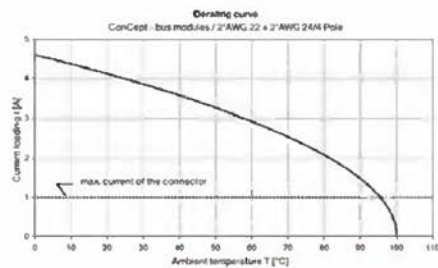
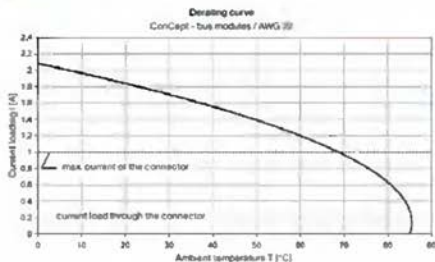
Screen clip	0.5 – 0.6 Nm
PCB terminal	0.2 – 0.3 Nm

Assembly instructions

- Use wire end ferrules
- Clamp screen braid under clip
- Use specified torque settings
- Place module at the far end of the frame with the connection side to the outside

Note: Also take note of the assembly instructions enclosed with the product.

Derating curves



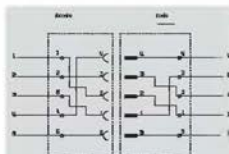
ConCept bus modules

Bus connectors

4 poles

Technical data

Rated voltage	1 A
Rated current	30 V
Qty	5



male module



female module

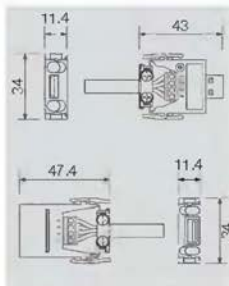


Information

Module



Insert	Type	Order No.
male	HDC CM BUS 4SS	1814310000
female	HDC CM BUS 4BS	1814300000

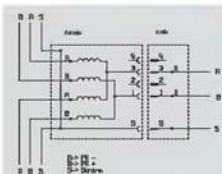


Bus connector with integrated T-exit

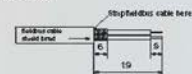
2 poles

Technical data

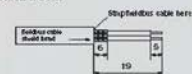
Rated voltage	1 A
Rated current	30 V
Qty	5



male module



female module



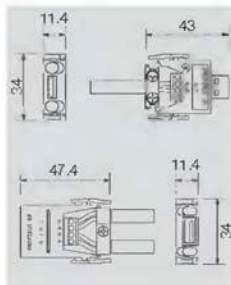
Information

The Protibus topology is the line structure. The branches (T-pieces) connect the individual field device or remote I/Os to the bus cable. The length of the spur depends on the transmission rate and should be as short as possible. IEC 61158 specifies that with a transmission rate of 1500 kbit/s per segment, spur lengths of up to 6.6 m are permitted. Source: Protibus Decade, Order No. 2 111 Version 1.0

Module



Insert	Type	Order No.
male	HDC CM BUS 2SS PDP A	1809060000
female	HDC CM BUS 2ES TPDP C	1809030000



ConCept system bus

Shielded module with additional 4 power contacts



Technical data

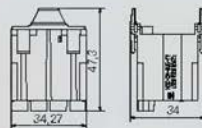
Tests	DIN EN 61984 IEC 60664
Nb. contacts	1 or 4 poles for signal transmission, additional 4 power contacts
Conductor connection system	Crimp
Rated current signal / power contacts	10 A / 20 A
Rated voltage signal / power contacts	60 V / 400 V
Shield	Shield connected to contact carrier using cable clamp
Outside diameter of shielded cable	3 to 6 mm or 6 to 9.5 mm
Degree of pollution	3
Rated impulse withstand voltage signal / power	0.8 kV / 6 kV
Contact resistance	
- Crimp version	< 2 mΩ
Conductor clamping ranges	
- Crimp version	0.5 mm ² ... 2.5 mm ² signal contacts 0.5 mm ² ... 4 mm ² power contacts AWG 26 ... 14 signal contacts AWG 18 ... 12 power contacts
Contact material	Copper alloy
Contact carrier	Zinc alloy
Surface	
- Crimp connection	3 μm Ag or 0.8 μm Au signal contacts 3 μm Ag power contacts
Temperature range	-40°C ... +125°C
Flammability to UL 94	V-0
Material - module	Glass-fibre reinforced PC (in UL list and approved for railway applications)
Earthing	Leading earth contact through module frame, single-sided PE terminal, double-sided possible as option

Note

Modules

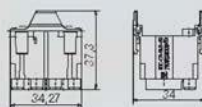
Shielded module

Designation	Order No.
HDC CM Bus F2	1908490000



Shielded module

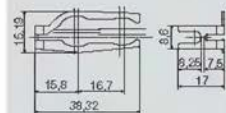
Designation	Order No.
HDC CM Bus M2	1908530000



Shielded module



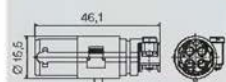
Designation	Order No.
HDC CM Bus GCA	1903510000



Shielded module



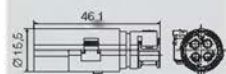
Designation	Order No.
HDC CM Bus F4 CT	1903500000



Shielded module



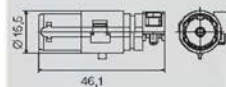
Designation	Order No.
HDC CM Bus M4 CT	1903430000



Shielded module



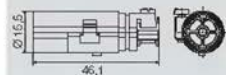
Designation	Order No.
HDC CM Bus F1 CT	1903540000



Shielded module



Designation	Order No.
HDC CM Bus M1 CT	1903520000



ConCept construction frame

Size 3

Frame

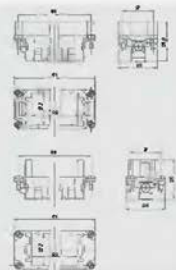


Frame



Frame	Designation	Order No.
Male	HDC CF6 2M	1758440000
Female	HDC CF6 2F	1758450000

Notes For 2 modules



Selection of Housings RockStar® IP65 Size 3

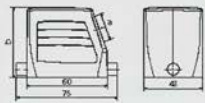


Hood

Hood, Cable Entry sideways



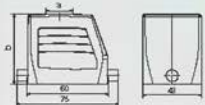
a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread		52	HDC 06B TSLU 1M20G	t788100000
M 20	with thread		52	HDC 06B TSLU 1M20G	t805930000
M 25	with thread		52	HDC 06B TSLU 1M25G	t788090000
M 25	with thread		72	HDC 16D TSLU 1M25G	t787480000



Hood, Cable Entry at top



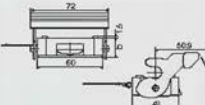
a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread		52	HDC 06B TOLU 1M20G	t788120000
M 25	with thread		52	HDC 06B TOLU 1M25G	t788110000
M 25	with thread		72	HDC 16D TOLU 1M25G	t787500000
M 32	with thread		72	HDC 16D TOLU 1M32G	t787490000



Cover



Version	Designation	Order No.
for hoods	HDC 06B DMCL 1LB	t665210000

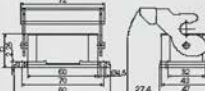


Base

Bulkhead housing



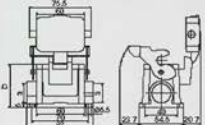
Version	Cover	b (mm)	Designation	Order No.
	with cover	47	HDC 06B ADLU	t202500000
		29	HDC 06B ALU	t202100000



Base housing



a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread	with cover	72	HDC 06B SDLU 2M20G	t788170000
M 25	with thread	with cover	72	HDC 06B SDLU 2M25G	t788160000
M 20	with thread		54	HDC 06B SLU 2M20G	t788140000
M 25	with thread		54	HDC 06B SLU 2M25G	t788130000



Cover



Version	Designation	Order No.
for bases	HDC 06B DDDL 2B0	t665200000



ConCept construction frame

Size 4

Frame

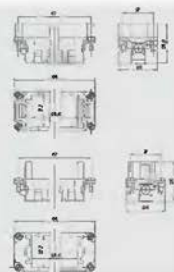


Frame



Frame	Designation	Order No.
Male	HDC CF 10 3M	1758460000
Female	HDC CF 10 3F	1758470000

Note For 3 modules



Selection of Housings RockStar® IP65 Size 4

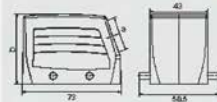


Hood

Hood, Cable Entry sideways



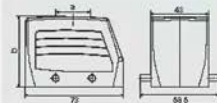
a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread		52	HDC 10B TSBU 1M20G	1787560000
M 25	with thread		52	HDC 10B TSBU 1M25G	1787560000
M 25	with thread		72	HDC 24D TSBU 1M25G	1787240000
M 32	with thread		72	HDC 24D TSBU 1M32G	1787230000



Hood, Cable Entry at top



a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread		52	HDC 10B TCBU 1M20G	1787590000
M 25	with thread		52	HDC 10B TCBU 1M25G	1787590000
M 25	with thread		72	HDC 24D TCBU 1M25G	1787390000
M 32	with thread		72	HDC 24D TCBU 1M32G	1787290000



Cover



Version	Designation	Order No.
for hoods	HDC 10B DMDQ 2QB	1665240000



Base

Bulkhead housing



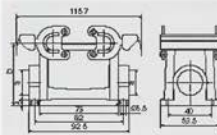
Version	Cover	b (mm)	Designation	Order No.
		29.3	HDC 10B ABU	1205000000



Base housing



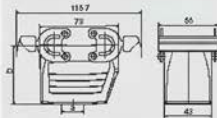
a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread		57	HDC 10B SBU 2M20G	1787640000
M 25	with thread		57	HDC 10B SBU 2M25G	1787630000
M 25	with thread		74	HDC 24D SBU 2M25G	1787350000
M 32	with thread		74	HDC 24D SBU 2M32G	1787360000



Coupling hood



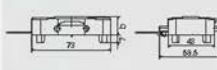
a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread		55	HDC 10B KBU 1M20G	1787720000



Cover



Version	Designation	Order No.
for bases	HDC 10B DCDQ 4BO	1665230000



ConCept construction frame

Size 6

Frame

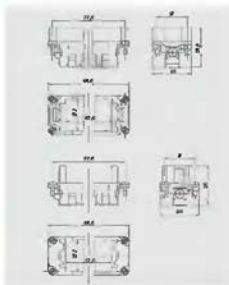


Frame



Frame	Designation	Order No.
Male	HDC CF 16 5M	1758480000
Female	HDC CF 16 5F	1758490000

Notes For 5 modules



C

Selection of Housings RockStar® IP65 Size 6



Hood

Hood, Cable Entry sideways



a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		61	HDC 16B TSBU 1M25G	1782180000
M 25	with thread		76	HDC 40D TSBU 1M25G	1787010000
M 32	with thread		76	HDC 40D TSBU 1M32G	1787000000



Hood, Cable Entry at top



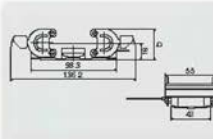
a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		61	HDC 16B TCBU 1M25G	1782210000
M 25	with thread		76	HDC 40D TCBU 1M25G	1787070000
M 32	with thread		76	HDC 40D TCBU 1M32G	1787060000



Cover



Version	Designation	Order No.
for hoods	HDC 16B DMDQ 2QB	1665270000

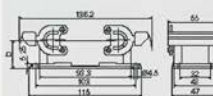


Base

Bulkhead housing



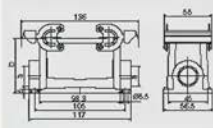
Version	Cover	b (mm)	Designation	Order No.
		29	HDC 16B ABU	1209600000



Base housing



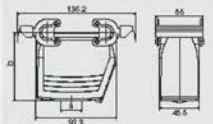
a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		64	HDC 16B SBU 2M25G	1782240000
M 25	with thread		84	HDC 40D SBU 2M25G	1787120000
M 32	with thread		84	HDC 40D SBU 2M32G	1787110000



Coupling hood



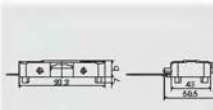
a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		79	HDC 40D RBU 1M25G	1787200000
M 32	with thread		79	HDC 40D RBU 1M32G	1787190000



Cover



Version	Designation	Order No.
for bases	HDC 16B DCDQ 4BO	1665260000



ConCept construction frame

Size 8

Frame



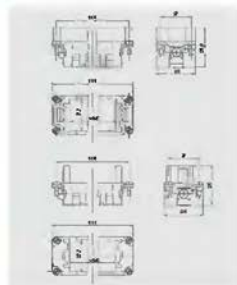
Frame



Frame	Designation	Order No.
Male	HDC CF 24 7M	1758500000
Female	HDC CF 24 7F	1758510000



Note For 7 modules



ConCept construction frame

Size 10



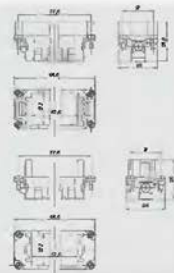
Frame

Frame



Frame	Designation	Order No.
Female	HDC CF 16 5M 2	1758530000
Male	HDC CF 16 5F 2	1758520000

Note for 2 x 5 modules please use 2 of the mentioned inserts



Selection of Housings RockStar® IP65 Size 10

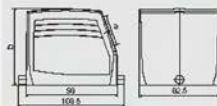


Hood

Hood, Cable Entry sideways



a	Version	Cover	b (mm)	Designation	Order No.
M 32	with thread		79	HDC 32B TSLU 1M32G	1788420000

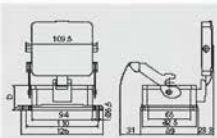


Base

Bulkhead housing



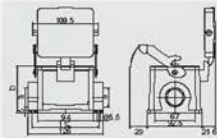
	Version	Cover	b (mm)	Designation	Order No.
		w/ cover	55	HDC 32B ADLU	1219800000
			38	HDC 32B ALU	1219500000



Base housing



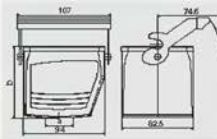
a	Version	Cover	b (mm)	Designation	Order No.
M 32	with thread	w/ cover	96	HDC 32B SLLU 2M32G	1788490000
M 32	with thread		79	HDC 32B SLU 2M32G	1788470000



Coupling hood



a	Version	Cover	b (mm)	Designation	Order No.
M 32	with thread		83	HDC 32B KLU 1M32G	1788500000



Size 12

Frame

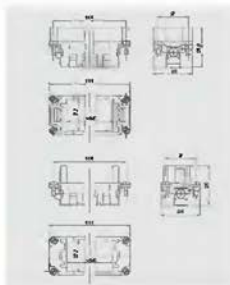


Frame



Frame	Designation	Order No.
Male	HDC CF 24 7M 2	1758540000
Female	HDC CF 24 7F 2	1758560000

Note for 2 x 7 modules please use 2 of the mentioned inserts



Selection of Housings RockStar® IP65 Size 12

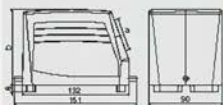


Hood

Hood, Cable Entry sideways



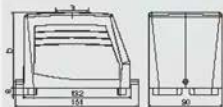
a	Version	Cover	b (mm)	Designation	Order No.
M 32	with thread		94	HDC 48B TSLU 1M32G	T782320000
M 40	with thread		94	HDC 48B TSLU 1M40G	T782310000
M 50	with thread		94	HDC 48B TSLU 1M50G	T782300000



Hood, Cable Entry at top



a	Version	Cover	b (mm)	Designation	Order No.
M 32	with thread		94	HDC 48B TCLU 1M32G	T782350000
M 50	with thread		94	HDC 48B TCLU 1M50G	T782330000

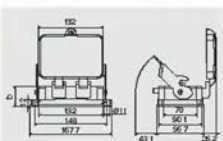


Base

Bulkhead housing

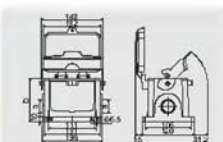


Version	Cover	b (mm)	Designation	Order No.
	with cover	62	HDC 48B ADLU	T222900000



Base housing

a	Version	Cover	b (mm)	Designation	Order No.
M 32	with thread	with cover	120	HDC 48B SDLU 2M32G	T782390000
M 32	with thread		100	HDC 48B SLU 2M32G	T782370000
M 40	with thread		100	HDC 48B SLU 2M40G	T782360000



Coupling frame for ConCept modules

C



The ModuFlex C coupling system together with modules from the ConCept connector system provides a flexible and low-cost solution for indoor applications (IP20 zone).

ConCept 3–20-pin male and female modules of the same pin number and design can be mounted in the coupling frame. Up to 5 coupling frames can be combined into a block with the help of the tongue-and-groove locking system. The coupling frames can also be locked onto TS32 and TS35 rail by using the mounting feet.

Each individual module can be individually plugged in and released. Thanks to the optional extractor / strain relief tool and the snap-on mounting bracket, ModuFlex C-coupling frames and the male and female modules of the ConCept system allow a wide range of combinations for all possible connector configurations.

Coupling frame



- Max. 5 coupling frames in a row
- Protection from incorrect connection
- Force required to withdraw a single module from the coupling frame >170 N

Note:

The GM3-HV modules are not suitable for use in the coupling frame.

Mounting bracket / mounting foot

**Mounting bracket**

- For fixing the coupling frames to a flat surface and to MOFU mounting foot
- Hole diameter 3 mm

Mounting foot

- For fixing coupling frames to TS35x7.5 and TS35x15 mounting rails using mounting brackets

Technical data**C-CR**

	Coupling frame
Insulation	PC
Colour	grey (RAL 7032)
Temperature range	-40 ... +120°C
Flammability class to UL 94	V-0

Ordering data

Type	Qty	Order No.
ModuFlex C-CR grau	10	174600000

Technical data**C-MW****MOFU**

	Mounting bracket	Mounting foot
Insulation	PC	PA
Colour	grey (RAL 7032)	orange
Temperature range	-40 ... +120°C	-40 ... +120°C
Flammability class to UL 94	V-0	V-2

Ordering data

Type	Qty	Order No.
ModuFlex C-MW Mounting bracket	10	1746070000
MOFU Mounting foot	20	0495690000

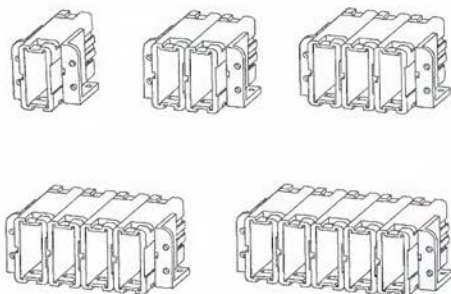
Accessories

Type	Qty	Order No.
Crosshead screw for fastening the coupling to the mounting foot, to front and back panel and to a flat surface		
PTSC KB.30 x 6	100	1796120000
Spacer pin M3 x 27 and clamping screws M3 x 8 in set. For mounting the coupling to flat panels. 1 pack contains 90 screws and 40 spacer pins, separately packaged		
ABSTBOLZM3X27+H3SC-HT	1	1796130000

Module extractor and strain relief tool



Coupling frame – sets



- Set consists of:
- 1 – 5 coupling frames
 - 1 right and 1 left mounting bracket

Technical data

C-MH/ZE

Module extractor and strain relief tool	
Insulation	PA
Colour	black
Temperature range	-40 ... +120°C
Flammability class to UL 94	V-2

Ordering data

Type	Qty	Order No.
ModuFlex C-MHZE black	10	1762970000

Technical data

	Mounting bracket	Mounting foot
Insulation	PC	PA
Colour	grey (RAL 7032)	orange
Temperature range	-40 ... +120°C	-40 ... +120°C
Flammability class to UL 94	V-0	V-2

Ordering data

Type	No. of coupling frames	Qty	Order No.
ModuFlex C-KTb M MV-1F	1	1	1765570000
ModuFlex C-KTb M MV-2F	2	1	1765580000
ModuFlex C-KTb M MV-3F	3	1	1765590000
ModuFlex C-KTb M MV-4F	4	1	1765600000
ModuFlex C-KTb M MV-5F	5	1	1765610000

Accessories

Type	Qty	Order No.
Crosshead screw for fastening the coupling to the mounting foot, to front and back panel and to a flat surface		
PTSC KB.30 x 6	100	1766120000
Spacer pin M3 x 27 and clamping screws M3 x 8 in set. For mounting the coupling to flat panels: 1 pack contains 80 screws and 40 spacer pins, separately packaged		
ABST BOLZM3X27+HLS-C-RT	1	1766180000

RockStar® Housings IP65 / NEMA 4X

RockStar® Housings IP65 / NEMA 4X	Overview	D.2
	RockStar® Housings IP65 / NEMA 4X	D.4

RockStar® Housings IP65 / NEMA 4X



Weidmüller's RockStar® IP 65 / NEMA 4X housings are your first choice when it comes to industrial housings in IP 65 class of protection.

Features:

- Housing of cast aluminium alloy or thermoplastic
- All fittings (clamps and pins) of rust proof stainless steel

Typical applications:

- general mechanical and plant engineering
- rail engineering
- conveying and transport technology
- packing machines
- crane construction and industrial robots
- toolmaking and special-purpose machine building
- fairground rides
- stage and lighting equipment

Various versions:

- different sizes
- different housing types
- different types of construction
- different locking systems
- different cable entries
- with or without cover

Their advantages:

- multiple plugging and unplugging of electrical connections
- reliable assembly under time pressure
- corrosion protection
- IP65 for both aluminium and plastic housings
- NEMA 4X for both aluminium and plastic housings

RockStar® Housings IP65 / NEMA 4X

Plastic housing

Size 1

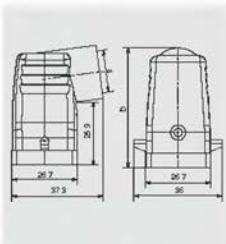
Hood



Hood, Cable Entry sideways



a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread	49 2	49 2	HDC 07A TMLU 1M20G	1783510000
PG 11	with thread	49 2	49 2	HDC 07A TMLU 1PG11G	1652400000

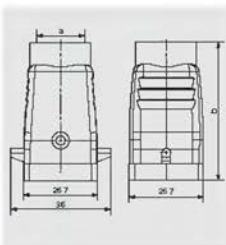


D

Hood, Cable Entry at top



a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread	50	50	HDC 07A TCLU 1M20G	1783520000
PG 11	with thread	50	50	HDC 07A TCLU 1PG11G	1652380000



Plastic housing

Size 1

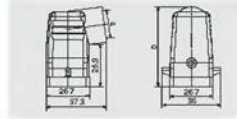
Base



Buildhead housing



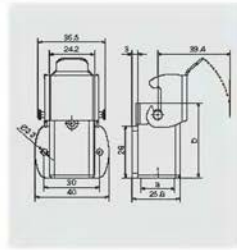
Version	Cover	b (mm)	Designation	Order No.
		23	HDC 07A ALLU	1652410000
	angled	26.7	HDC 07A AWLU	1652420000



Base housing



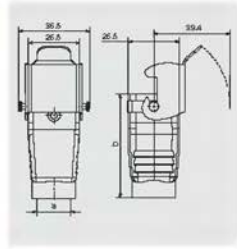
a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread		26.8	HDC 07A SLU 1M20G	1788530000
PG 11	w. sleeve		26.8	HDC 07A SLU 1PG11S	1652440000



Coupling hood



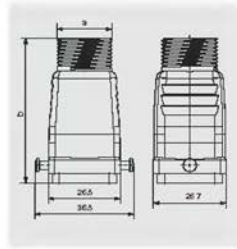
a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread		53.6	HDC 07A KCLU 1M20G	1788540000
PG 11	with thread		53.6	HDC 07A KCLU 1PG11G	1652460000



Screw Mounting Housing



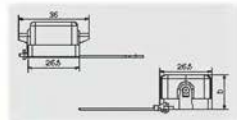
a	Version	Cover	b (mm)	Designation	Order No.
PG 13,6	with thread		64	HDC 07A ELU 1PG13G	1500990000



Cover



Version	Designation	Order No.
for female insert	HDC 07A DMDL 2BO	1665770000
for male insert	HDC 07A DODL 2BO	1665760000



RockStar® Housings IP65 / NEMA 4X

Metal housing

Size 1

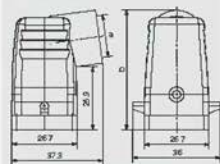
Hood



Hood, Cable Entry sideways



a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread	49 2	49 2	HDC 04A TMLU 1M20G	1788810000
PG 11	with thread	49 2	49 2	HDC 04A TMLU 1PG11G	1652480000
PG 11	with thread	49 2	49 2	HDC 04A TMLU 1PG11G E01	1900310000

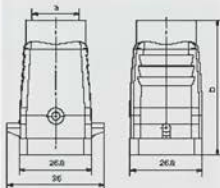


D

Hood, Cable Entry at top



a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread	50	50	HDC 04A TCLU 1M20G	1788820000
PG 11	with thread	50	50	HDC 04A TCLU 1PG11G	1652470000
PG 11	with thread	50	50	HDC 04A TCLU 1PG11G E01	1900280000



Metal housing

Size 1

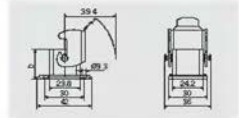
Base



Buildhead housing



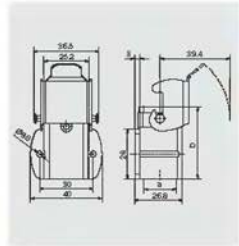
Version	Cover	b (mm)	Designation	Order No.
		23	HDC 04A ALLU	1497600000
with thread		23	HDC 04A ALLU EX	t899870000
with thread		26.7	HDC 04A AWLU EX	t899890000



Base housing



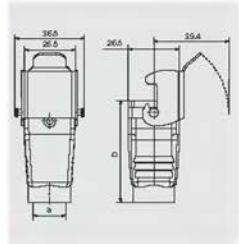
a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread	26.8	53.5	HDC 04A SLU 1M20G	1788330000
PG 11	with thread	26.8	53.5	HDC 04A SLU 1PG11G	t652490000
PG 11	with thread	26.8	53.5	HDC 04A SLU 1PG11G EX	t899920000



Coupling hood



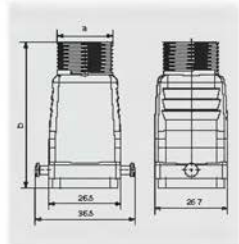
a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread	53.5	53.5	HDC 04A KCLU 1M20G	1788340000
PG 11	with thread	53.5	53.5	HDC 04A KCLU 1PG11G	t652500000
PG 11	with thread	53.5	53.5	HDC 04A KCLU 1PG11G EX	t899920000



Screw Mounting Housing



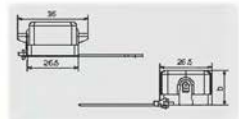
a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread	54	54	HDC 04A ELU 1M20G	t900320000
PG 13,6	with thread	54	54	HDC 04A ELU 1PG13G	t900330000
PG 13,6	with thread	54	54	HDC 04A ELU 1PG13G EX	t900350000



Cover



Version	Designation	Order No.
for female insert	HDC 04A DMDL 2BO	t665750000
for male insert	HDC 04A DODL 2BO	t665740000



RockStar® Housings IP65 / NEMA 4X

End locking, lower side

Size 2

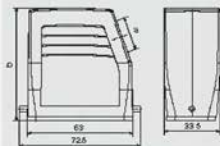
Hood



Hood, Cable Entry sideways



a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread		68	HDC 15A TSLU 1M20G	1783860000
M 25	with thread		68	HDC 15A TSLU 1M25G	1783850000
PG 16	with thread		54	HDC 10A TSLU 1PG16G	1663810000
PG 16	with thread		68	HDC 15A TSLU 1PG16G	1663850000
PG 21	with thread		68	HDC 15A TSLU 1PG21G	1663870000

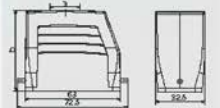


D

Hood, Cable Entry at top



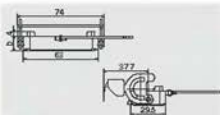
a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread		54	HDC 10A TCLU 1M20G	1783620000
M 25	with thread		54	HDC 10A TCLU 1M25G	1783610000
PG 16	with thread		54	HDC 10A TCLU 1PG16G	1663990000
PG 21	with thread		68	HDC 15A TCLU 1PG21G	1663990000



Cover



Version	Designation	Order No.
for hoods	HDC 10A DOCL 1LB	1665890000



End locking, lower side

Size 2

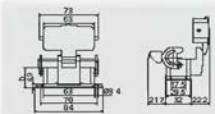
Base



Bulkhead housing



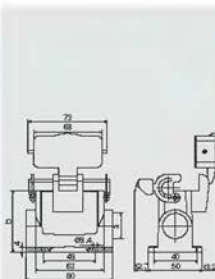
Version	Cover	b (mm)	Designation	Order No.
	with cover	37.5	HDC 10A ADLU	1664060000
		25	HDC 10A ALU	1664040000



Base housing



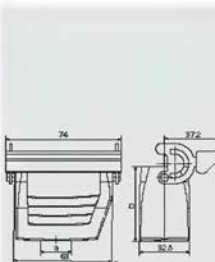
a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread		57	HDC 10A SLLU 1M20G	1901100000
M 20	with thread	with cover	69.5	HDC 10A SLLU 1M20G	1901010000
M 20	with thread		57	HDC 10A SLLU 2M20G	1789640000
M 20	with thread	with cover	69.5	HDC 10A SLLU 2M20G	1789660000
M 25	with thread		57	HDC 10A SLLU 1M25G	1901160000
M 25	with thread	with cover	69.5	HDC 10A SLLU 1M25G	1901040000
M 25	with thread		57	HDC 10A SLLU 2M25G	1789630000
M 25	with thread	with cover	69.5	HDC 10A SLLU 2M25G	1789650000
PG 16	with thread		57	HDC 10A SLLU 1PG16G	1664170000
PG 16	with thread	with cover	69.5	HDC 10A SLLU 1PG16G	1664110000
PG 16	with thread		57	HDC 10A SLLU 2PG16G	1664190000
PG 16	with thread	with cover	69.5	HDC 10A SLLU 2PG16G	1664420000
PG 21	with thread		57	HDC 10A SLLU 1PG21G	1664210000



Coupling hood



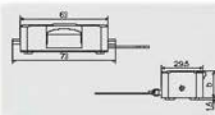
a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		48	HDC 10A KLU 1M25G	1789670000
PG 16	with thread		48	HDC 10A KLU 1PG16G	1664560000
PG 21	with thread		62	HDC 16A KLU 1PG21G	1664630000



Cover



Version	Designation	Order No.
for bases	HDC 10A DMDL 2B0	1665830000



RockStar® Housings IP65 / NEMA 4X

End locking, lower side

Size 3

Hood



Hood, Cable Entry sideways



a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread	52	HDC 06B TSLU 1M20G	1788100000	
M 20	with thread	52	HDC 06B TSLU 1M20G	1805930000	
M 25	with thread	52	HDC 06B TSLU 1M25G	1788090000	
M 25	with thread	72	HDC 16D TSLU 1M25G	1787480000	
M 32	with thread	72	HDC 16D TSLU 1M32G	1787470000	
PG 13,5	with thread	52	HDC 06B TSLU 1PG13G	1670530000	
PG 16	with thread	52	HDC 06B TSLU 1PG16G	1652520000	
PG 21	with thread	72	HDC 16D TSLU 1PG21G	1652560000	
PG 29	with thread	72	HDC 16D TSLU 1PG29G	1652580000	

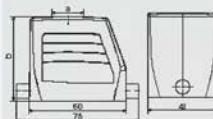


D

Hood, Cable Entry at top



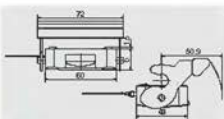
a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread	52	HDC 06B TOLU 1M20G	1788120000	
M 25	with thread	52	HDC 06B TOLU 1M25G	1788110000	
M 25	with thread	72	HDC 16D TOLU 1M25G	1787500000	
M 32	with thread	72	HDC 16D TOLU 1M32G	1787490000	
PG 13,5	with thread	52	HDC 06B TOLU 1PG13G	1670500000	
PG 16	with thread	52	HDC 06B TOLU 1PG16G	1652840000	
PG 21	with thread	72	HDC 16D TOLU 1PG21G	1652830000	
PG 29	with thread	72	HDC 16D TOLU 1PG29G	1652700000	



Cover



Version	Designation	Order No.
for hoods	HDC 06B DMEL 1LB	1665210000



End locking, lower side

Size 3

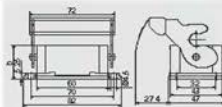
Base



Buildhead housing



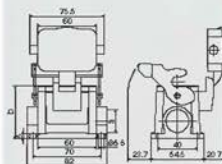
Version	Cover	b (mm)	Designation	Order No.
		29	HDC 06B ALU	1202100000
	with cover	47	HDC 06B ADLU	1202500000



Base housing



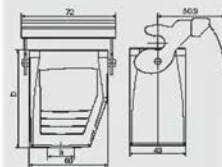
a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread		54	HDC 06B SLU 1M20G	1900460000
M 20	with thread	with cover	72	HDC 06B SDLU 1M20G	1900360000
M 20	with thread		54	HDC 06B SLU 2M20G	1788140000
M 20	with thread	with cover	72	HDC 06B SDLU 2M20G	1788170000
M 25	with thread		54	HDC 06B SLU 1M25G	1900430000
M 25	with thread	with cover	72	HDC 06B SDLU 1M25G	1900330000
M 25	with thread		74	HDC 16D SLU 1M25G	1900830000
M 25	with thread	with cover	92	HDC 16D SDLU 1M25G	1900820000
M 25	with thread		54	HDC 06B SLU 2M25G	1788130000
M 25	with thread		74	HDC 16D SLU 2M25G	1787520000
M 25	with thread	with cover	92	HDC 16D SDLU 2M25G	1787540000
M 25	with thread	with cover	72	HDC 06B SDLU 2M25G	1788160000
M 32	with thread		74	HDC 16D SLU 1M32G	1900900000
M 32	with thread		74	HDC 16D SLU 2M32G	1787510000
PG 16	with thread		54	HDC 06B SLU 1PG16G	1652760000
PG 16	with thread	with cover	72	HDC 06B SDLU 1PG16G	1652920000
PG 16	with thread		54	HDC 06B SLU 2PG16G	1652760000
PG 16	with thread	with cover	72	HDC 06B SDLU 2PG16G	1652990000
PG 21	with thread		74	HDC 16D SLU 2PG21G	1652840000



Coupling hood



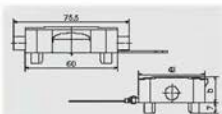
a	Version	Cover	b (mm)	Designation	Order No.
PG 16	with thread		55	HDC 06B KLU 1PG16G	1653200000
PG 21			75	HDC 16D KLU 1/2 IV	1653230000



Cover



Version	Designation	Order No.
for bases	HDC 06B DCDL 250	1665200000



RockStar® Housings IP65 / NEMA 4X

Side locking, lower side

Size 4

Hood



Hood, Cable Entry sideways



a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread	52	HDC 10B TSBU 1M20G	1787560000	
M 25	with thread	52	HDC 10B TSBU 1M25G	1787560000	
M 25	with thread	72	HDC 24D TSBU 1M25G	1787240000	
M 32	with thread	72	HDC 24D TSBU 1M32G	1787230000	
PG 16	with thread	52	HDC 10B TSBU 1PG16G	1654070000	
PG 21	with thread	52	HDC 10B TSBU 1PG21G	1654060000	
PG 21	with thread	72	HDC 24D TSBU 1PG21G	1654150000	
PG 29	with thread	72	HDC 24D TSBU 1PG29G	1654170000	



D

Hood, Cable Entry at top



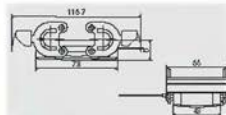
a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread	52	HDC 10B TCBU 1M20G	1787600000	
M 25	with thread	52	HDC 10B TCBU 1M25G	1787590000	
M 25	with thread	72	HDC 24D TCBU 1M25G	1787300000	
M 32	with thread	72	HDC 24D TCBU 1M32G	1787290000	
PG 16	with thread	52	HDC 10B TCBU 1PG16G	1654230000	
PG 21	with thread	52	HDC 10B TCBU 1PG21G	1654240000	
PG 21	with thread	72	HDC 24D TCBU 1PG21G	1616420000	
PG 29	with thread	72	HDC 24D TCBU 1PG29G	1654320000	



Cover



Version	Designation	Order No.
for hoods	HDC 10B DM1Q 20B	1655240000



Side locking, lower side

Size 4

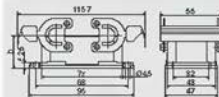
Base



Bulkhead housing



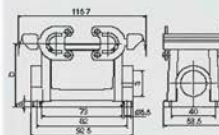
Version	Cover	b (mm)	Designation	Order No.
		29.3	HDC 10B ABU	1205000000



Base housing



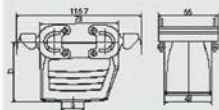
a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread		57	HDC 10B SBU 1M20G	1901360000
M 20	with thread		57	HDC 10B SBU 2M20G	1787840000
M 25	with thread		57	HDC 10B SBU 1M25G	1901370000
M 25	with thread		57	HDC 10B SBU 2M25G	1787850000
M 25	with thread		74	HDC 24D SBU 1M25G	1903210000
M 25	with thread		74	HDC 24D SBU 2M25G	1787350000
M 32	with thread		74	HDC 24D SBU 1M32G	1903220000
M 32	with thread		74	HDC 24D SBU 2M32G	1787360000
PG 16	with thread		57	HDC 10B SBU 1PG16G	1654370000
PG 16	with thread		57	HDC 10B SBU 2PG16G	1654380000
PG 21	with thread		74	HDC 24D SBU 1PG21G	1654450000
PG 29	with thread		74	HDC 24D SBU 1PG29G	1654470000



Coupling hood



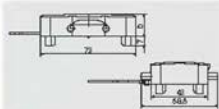
a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread		55	HDC 10B KBU 1M20G	1787720000
PG 16	with thread		55	HDC 10B KBU 1PG16G	1654580000



Cover



Version	Designation	Order No.
for bases	HDC 10B DCDQ4B0	1655230000



RockStar® Housings IP65 / NEMA 4X

End locking, lower side

Size 4

Hood



Hood, Cable Entry sideways



a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread	52	HDC 10B TSLU 1M25G	1787530000	
M 25	with thread	72	HDC 24D TSLU 1M25G	1787230000	
M 32	with thread	72	HDC 24D TSLU 1M32G	1787270000	
PG 16	with thread	52	HDC 10B TSLU 1PG16G	1655210000	
PG 21	with thread	72	HDC 24D TSLU 1PG21G	1655250000	
PG 29	with thread	72	HDC 24D TSLU 1PG29G	1655270000	



D

Hood, Cable Entry at top



a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread	52	HDC 10B TOLU 1M25G	1787520000	
M 25	with thread	72	HDC 24D TOLU 1M25G	1787340000	
M 32	with thread	72	HDC 24D TOLU 1M32G	1787330000	
PG 16	with thread	52	HDC 10B TOLU 1PG16G	1655320000	
PG 21	with thread	72	HDC 24D TOLU 1PG21G	1655360000	
PG 29	with thread	72	HDC 24D TOLU 1PG29G	1655380000	



End locking, lower side

Size 4

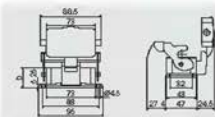
Base



Bulkhead housing



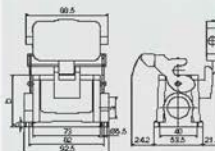
Version	Cover	b (mm)	Designation	Order No.
	with cover	51.6	HDC 10B ADLU	t206500000
		29.3	HDC 10B ALU	t206100000



Base housing



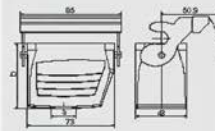
a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread		57	HDC 10B SLU 1M20G	t901620000
M 20	with thread	with cover	79.6	HDC 10B SCLU 1M20G	t901570000
M 20	with thread		57	HDC 10B SLU 2M20G	t787690000
M 20	with thread	with cover	79.6	HDC 10B SCLU 2M20G	t787700000
M 25	with thread		57	HDC 10B SLU 1M25G	t901640000
M 25	with thread	with cover	96.6	HDC 24D SCLU 1M25G	t903410000
M 25	with thread		57	HDC 10B SLU 2M25G	t787650000
M 25	with thread	with cover	96.6	HDC 24D SCLU 2M25G	t787420000
M 32	with thread		74	HDC 24D SLU 1M32G	t903560000
M 32	with thread	with cover	96.6	HDC 24D SCLU 1M32G	t903510000
M 32	with thread		74	HDC 24D SLU 2M32G	t787370000
M 32	with thread	with cover	96.6	HDC 24D SCLU 2M32G	t787410000
PG 16	with thread		57	HDC 10B SLU 2PG16G	t655470000
PG 16	with thread	with cover	79.6	HDC 10B SCLU 2PG16G	t655630000



Coupling hood



a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread		56	HDC 10B KLU 1M20G	t787740000
M 25	with thread		56	HDC 10B KLU 1M25G	t787730000
M 25	with thread		75	HDC 24D KLU 1M25G	t787460000
M 32	with thread		75	HDC 24D KLU 1M32G	t787450000
PG 16	with thread		56	HDC 10B KLU 1PG16G	t655690000



RockStar® Housings IP65 / NEMA 4X

Side locking, upper side

Size 4

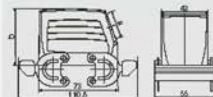
Hood



Hood, Cable Entry sideways



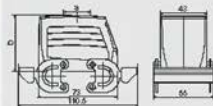
a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		52	HDC 10B TSBO 1M25G	t787570000
M 25	with thread		72	HDC 24D TSBO 1M25G	t787220000
M 32	with thread		72	HDC 24D TSBO 1M32G	t787250000
PG 16	with thread		52	HDC 10B TSBO 1PG16G	t654750000
PG 16	with thread		72	HDC 24D TSBO 1PG16G	t654810000
PG 21	with thread		72	HDC 24D TSBO 1PG21G	t654790000



Hood, Cable Entry at top



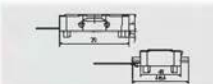
a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		52	HDC 10B TCBO 1M25G	t787610000
PG 16	with thread		52	HDC 10B TCBO 1PG16G	t654860000
PG 29	with thread		72	HDC 24D TCBO 1PG29G	t654920000



Cover



Version	Designation	Order No.
for hoods	HDC 10B DMDQ4B0	t665250000



Base

Bulkhead housing



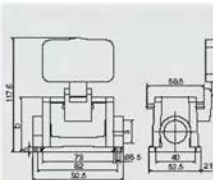
Version	Cover	b (mm)	Designation	Order No.
	with cover	51.6	HDC 10B ADCB0	t205600000



Base housing



a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread	with cover	79.5	HDC 10B SDBO 1M20G	t901490000
M 20	with thread	with cover	79.5	HDC 10B SDBO 2M20G	t787680000
M 25	with thread	with cover	79.5	HDC 10B SDBO 1M25G	t901510000
M 25	with thread	with cover	96.5	HDC 24D SDBO 1M25G	t903370000
M 25	with thread	with cover	79.5	HDC 10B SDBO 2M25G	t787670000
M 25	with thread	with cover	96.5	HDC 24D SDBO 2M25G	t787400000
PG 16	with thread	with cover	79.5	HDC 10B SDBO 2PG16G	t655000000



Size 4**End locking clamp on housing bottom**

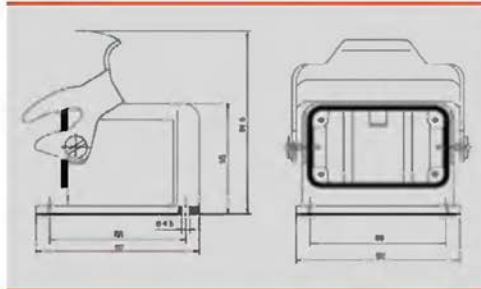
The plug and play solution for your motor. With short assembly times and free choice of connection technology, this is Weidmüller's low-cost solution for heavy-duty connectors.

The HDC HB 10 AWVL angled housing replaces the motor terminal box. The housing can be mounted in four different ways (offset by 90°) thanks to fixing dimensions of 68 x 68 mm.

Suitable for use with standard inserts of the HE-10 series (screw, tension clamp or push-in technology) or inserts from the modular ConCept system.

HDC HB 10 AWVL**Ordering data**

Type	Qty	Order No.
HDC HB 10 AWVL	1	1790040000

Dimensions

End locking, lower side

Size 5

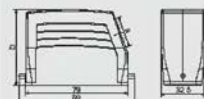
Hood



Hood, Cable Entry sideways



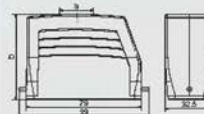
a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread	72	HDC 25A TSLU 1M20G	1783630000	
M 25	with thread	58	HDC 16A TSLU 1M25G	1783740000	
M 25	with thread	72	HDC 25A TSLU 1M25G	1783690000	
PG 16	with thread	58	HDC 16A TSLU 1PG16G	1664690000	
PG 16	with thread	72	HDC 25A TSLU 1PG16G	1664730000	
PG 21	with thread	72	HDC 25A TSLU 1PG21G	1664750000	



Hood, Cable Entry at top



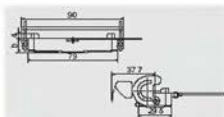
a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread	72	HDC 25A TCLU 1M20G	1783710000	
M 25	with thread	58	HDC 16A TCLU 1M25G	1783750000	
M 25	with thread	72	HDC 25A TCLU 1M25G	1783700000	
PG 16	with thread	58	HDC 16A TCLU 1PG16G	1664810000	
PG 21	with thread	72	HDC 25A TCLU 1PG21G	1664870000	



Cover



Version	Designation	Order No.
for hoods	HDC 16A DODL 1LB	1665900000



End locking, lower side

Size 5

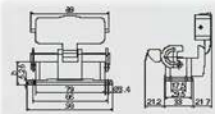
Base



Bulkhead housing



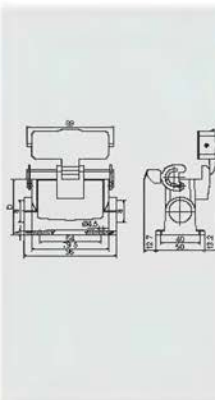
Version	Cover	b (mm)	Designation	Order No.
	with cover	44.5	HDC 16A ADLU	1664940000
		25	HDC 16A ALU	1664920000



Base housing



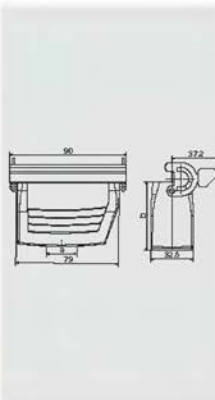
a	Version	Cover	b (mm)	Designation	Order No.
M 20	with thread		57	HDC 16A SLU 2M20G	1788770000
M 20	with thread	with cover	76.5	HDC 16A SCLU 2M20G	1788790000
M 25	with thread		57	HDC 16A SLU 2M25G	1788760000
M 25	with thread	with cover	76.5	HDC 16A SCLU 2M25G	1788780000
PG 16	with thread		57	HDC 16A SLU 2PG16G	1665070000
PG 16	with cable gland	with cover	76.5	HDC 16A SCLU 2PG17	1665300000
PG 21	with thread		57	HDC 16A SLU 1PG21G	1665090000



Coupling hood



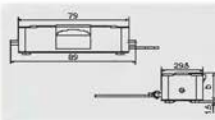
a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		53	HDC 16A KLU 1M25G	1788800000
PG 16	with thread		53	HDC 16A KLU 1PG16G	1665450000



Cover



Version	Designation	Order No.
for bases	HDC 16A DMDL 2B0	1665910000



RockStar® Housings IP65 / NEMA 4X

Side locking, lower side

Size 6

Hood



Hood, Cable Entry sideways



a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread	61	HDC 16B TSBU 1M25G	1782180000	
M 25	with thread	76	HDC 40D TSBU 1M25G	1787010000	
M 32	with thread	76	HDC 40D TSBU 1M32G	1787000000	
M 40	with thread	60	HDC HB16 TSVU bM40G	1809620000	
PG 21	with thread	61	HDC 16B TSBU 1PG21G	1656430000	
PG 21	with thread	76	HDC 40D TSBU 1PG21G	1656520000	
PG 29	with thread	76	HDC 40D TSBU 1PG29G	1656540000	

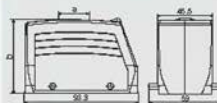


D

Hood, Cable Entry at top



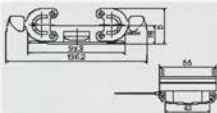
a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread	61	HDC 16B TCBU 1M25G	1782210000	
M 25	with thread	76	HDC 40D TCBU 1M25G	1787070000	
M 32	with thread	76	HDC 40D TCBU 1M32G	1787060000	
PG 21	with thread	61	HDC 16B TCBU 1PG21G	1656590000	
PG 21	with thread	76	HDC 40D TCBU 1PG21G	1656630000	
PG 29	with thread	76	HDC 40D TCBU 1PG29G	1656650000	



Cover



Version	Designation	Order No.
for hoods	HDC 16B DMDQ 20B	1665270000



Side locking, lower side

Size 6

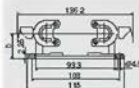
Base



Bulkhead housing



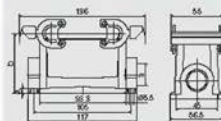
Version	Cover	b (mm)	Designation	Order No.
		29	HDC 16B ABU	1203600000



Base housing



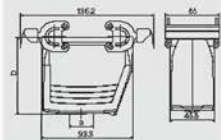
a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		64	HDC 16B SBU 1M25G	1899930000
M 25	with thread		84	HDC 40D SBU 1M25G	1902970000
M 25	with thread		64	HDC 16B SBU 2M25G	1788240000
M 25	with thread		84	HDC 40D SBU 2M25G	1787120000
M 32	with thread		84	HDC 40D SBU 1M32G	1902990000
M 32	with thread		84	HDC 40D SBU 2M32G	1787110000
PG 21	with thread		64	HDC 16B SBU 1PG21G	1656220000
PG 21	with thread		64	HDC 16B SBU 2PG21G	1656230000
PG 21	with thread		84	HDC 40D SBU 2PG21G	1656310000
PG 29	with thread		84	HDC 40D SBU 1PG29G	1656330000
PG 29	with thread		84	HDC 40D SBU 2PG29G	1656340000



Coupling hood



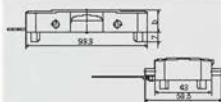
a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		79	HDC 40D KBU 1M25G	1787200000
M 32	with thread		79	HDC 40D KBU 1M32G	1787190000
PG 21	with thread		64	HDC 16B KBU 1PG21G	1657270000
PG 21	with thread		79	HDC 40D KBU 1PG21G	1657310000



Cover



Version	Designation	Order No.
for bases	HDC 16B DCDQ4B0	1665260000



RockStar® Housings IP65 / NEMA 4X

End locking, lower side

Size 6

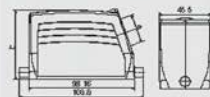
Hood



Hood, Cable Entry sideways



a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread	61	HDC 16B TSLU 1M25G	1783200000	
M 25	with thread	76	HDC 40D TSLU 1M25G	1787050000	
M 32	with thread	61	HDC 16B TSLU 1M32G	1804940000	
M 32	with thread	76	HDC 40D TSLU 1M32G	1787040000	
M 40	with thread	76	HDC 40D TSLU 1M40G	1804950000	
PG 21	with thread	61	HDC 16B TSLU 1PG21G	1657850000	
PG 21	with thread	76	HDC 40D TSLU 1PG21G	1657890000	
PG 29	with thread	76	HDC 40D TSLU 1PG29G	1657910000	

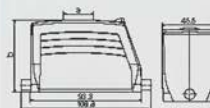


D

Hood, Cable Entry at top



a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread	61	HDC 16B TOLU 1M25G	1783230000	
M 32	with thread	61	HDC 16B TOLU 1M32G	1804930000	
M 32	with thread	76	HDC 40D TOLU 1M32G	1787100000	
PG 21	with thread	61	HDC 16B TOLU 1PG21G	1657960000	
PG 29	with thread	76	HDC 40D TOLU 1PG29G	1658020000	



End locking, lower side

Size 6

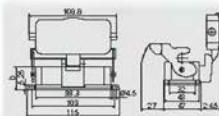
Base



Bulkhead housing



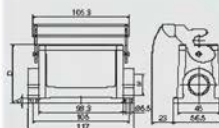
Version	Cover	b (mm)	Designation	Order No.
	with cover	47	HDC 16B ADLU	1210100000
		29	HDC 16B ALU	1209700000



Base housing



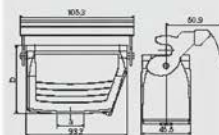
a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		64	HDC 16B SLU 1M25G	1900170000
M 25	with thread	with cover	102	HDC 40D SDLU 1M25G	1903070000
M 25	with thread		64	HDC 16B SLU 2M25G	1782550000
M 25	with thread	with cover	82	HDC 16B SDLU 2M25G	1782270000
M 25	with thread	with cover	102	HDC 40D SDLU 2M25G	1787180000
M 32	with thread		84	HDC 40D SLU 1M32G	1903110000
M 32	with thread	with cover	102	HDC 40D SDLU 1M32G	1903080000
M 32	with thread		84	HDC 40D SLU 2M32G	1804660000
M 32	with thread	with cover	102	HDC 40D SDLU 2M32G	1787170000
PG 21	with thread		64	HDC 16B SLU 1PG21G	1658110000
PG 21	with thread	with cover	82	HDC 16B SDLU 1PG21G	1658320000
PG 21	with thread		64	HDC 16B SLU 2PG21G	1658120000
PG 21	with thread	with cover	82	HDC 16B SDLU 2PG21G	1658330000
PG 29	with thread	with cover	102	HDC 40D SDLU 1PG29G	1658410000



Coupling hood



a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		64	HDC 16B KLU 1M25G	1782290000
M 25	with thread		79	HDC 40D KLU 1M25G	1787220000



RockStar® Housings IP65 / NEMA 4X

Side locking, upper side

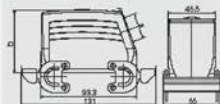
Size 6

Hood



Hood, Cable Entry sideways

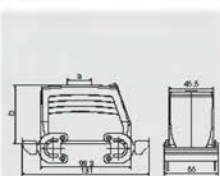
a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread	61	HDC 16B TSBO 1M25G	1788190000	
M 25	with thread	76	HDC 40D TSBO 1M25G	1787090000	
M 32	with thread	76	HDC 40D TSBO 1M32G	1787020000	
PG 21	with thread	61	HDC 16B TSBO 1PG21G	1657380000	
PG 21	with thread	76	HDC 40D TSBO 1PG21G	1657420000	



D

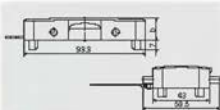
Hood, Cable Entry at top

a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread	61	HDC 16B TCBO 1M25G	1788220000	
PG 21	with thread	61	HDC 16B TCBO 1PG21G	1657490000	
PG 29	with thread	76	HDC 40D TCBO 1PG29G	1657560000	



Cover

Version	Designation	Order No.
for hoods	HDC 16B DMDQ 4BO	1665620000



RockStar® Housings IP65 / NEMA 4X

Side locking, lower side

Size 7

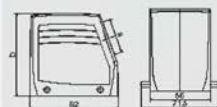
Hood



Hood, Cable Entry sideways



a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		75	HDC 32A TSEBU 1M25G	1787960000
M 32	with thread		75	HDC 32A TSEBU 1M32G	1787960000
PG 21	with thread		75	HDC 32A TSEBU 1PG21G	1665670000
PG 29	with thread		75	HDC 32A TSEBU 1PG29G	1665690000

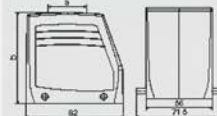


D

Hood, Cable Entry at top



a	Version	Cover	b (mm)	Designation	Order No.
M 32	with thread		75	HDC 32A TCEBU 1M32G	1787990000
PG 21	with thread		75	HDC 32A TCEBU 1PG21G	1665790000
PG 29	with thread		75	HDC 32A TCEBU 1PG29G	1665810000



Side locking, lower side

Size 7

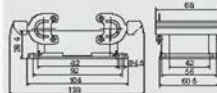
Base



Bulkhead housing



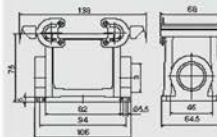
Version	Cover	b (mm)	Designation	Order No.
		25	HDC 32A ABU	1685860000



Base housing



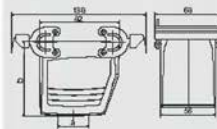
a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		75	HDC 32A SBU 1M25G	1903870000
M 25	with thread		75	HDC 32A SBU 2M25G	1783040000
FG 21	with thread		75	HDC 32A SBU 2PG21G	1669930000
FG 29	with thread		75	HDC 32A SBU 1PG29G	1666010000



Coupling hood



a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		76.5	HDC 32A KBU 1M25G	1783030000
M 32	with thread		76.5	HDC 32A KBU 1M32G	1783070000



Side locking, upper side

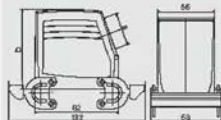
Size 7

Hood



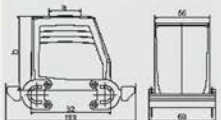
Hood, Cable Entry sideways

a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		75	HDC 32A TSBO 1M25G	1787930000
M 32	with thread		75	HDC 32A TSBO 1M32G	1787970000
PG 29	with thread		75	HDC 32A TSBO 1PG29G	1666270000



Hood, Cable Entry at top

a	Version	Cover	b (mm)	Designation	Order No.
M 32	with thread		77	HDC 32A TCBO 1M32G	1783010000



Cover

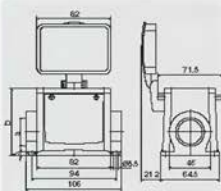
Version	Designation	Order No.
for hoods	HDC 32A DODQ 4B0	1665920000



Base

Base housing

a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread	with cover	97	HDC 32A SDBO 1M25G	1609900000
M 25	with thread	with cover	97	HDC 32A SDBO 2M25G	1783060000
M 32	with thread	with cover	97	HDC 32A SDBO 1M32G	1609910000
M 32	with thread	with cover	97	HDC 32A SDBO 2M32G	1783050000
PG 21	with thread	with cover	97	HDC 32A SDBO 1PG21G	1666550000
PG 29	with thread	with cover	97	HDC 32A SDBO 1PG29G	1666590000



Cover

Version	Designation	Order No.
for bases	HDC 32A DMDQ 3CB	1665930000



RockStar® Housings IP65 / NEMA 4X

Side locking, lower side

Size 8

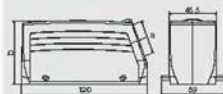
Hood



Hood, Cable Entry sideways



a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread	61	61	HDC 24B TSBU 1M25G	1787760000
M 25	with thread	76	76	HDC 64D TSBU 1M25G	1786780000
M 32	with thread	61	61	HDC 24B TSBU 1M32G	1787750000
M 32	with thread	76	76	HDC 64D TSBU 1M32G	1786770000
M 40	with thread	61	61	HDC 24B TSBU 1M40G	1902430000
M 40	with thread	61	61	HDC 24B TSBU 1PG21G	1661230000
PG 21	with thread	76	76	HDC 64D TSBU 1PG21G	1661300000
PG 29	with thread	61	61	HDC 24B TSBU 1PG29G	1661240000
PG 29	with thread	76	76	HDC 64D TSBU 1PG29G	1661320000

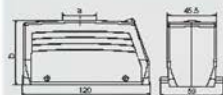


D

Hood, Cable Entry at top



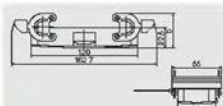
a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread	61	61	HDC 24B TCBU 1M25G	1787820000
M 32	with thread	61	61	HDC 24B TCBU 1M32G	1787810000
M 32	with thread	76	76	HDC 64D TCBU 1M32G	1786830000
M 40	with thread	61	61	HDC 24B TCBU 1M40G	1902930000
PG 21	with thread	61	61	HDC 24B TCBU 1PG21G	1661370000
PG 21	with thread	76	76	HDC 64D TCBU 1PG21G	1661440000
PG 29	with thread	61	61	HDC 24B TCBU 1PG29G	1661330000
PG 29	with thread	76	76	HDC 64D TCBU 1PG29G	1661460000



Cover



Version	Designation	Order No.
for hoods	HDC 24B DMDQ 20B	1661640000



Side locking, lower side

Size 8

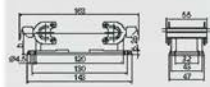
Base



Bulkhead housing



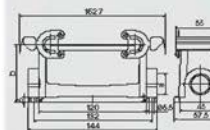
Version	Cover	b (mm)	Designation	Order No.
		29.3	HDC 24B ABU	1212400000



Base housing



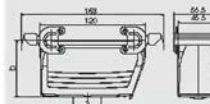
a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		64	HDC 24B SBU 1M25G	1901150000
M 25	with thread		84	HDC 64D SBU 1M25G	1904340000
M 25	with thread		64	HDC 24B SBU 2M25G	1787870000
M 25	with thread		84	HDC 64D SBU 2M25G	1786990000
M 32	with thread		84	HDC 64D SBU 1M32G	1904350000
M 32	with thread		84	HDC 64D SBU 2M32G	1786830000
PG 21	with thread		64	HDC 24B SBU 1PG21G	1661510000
PG 21	with thread		64	HDC 24B SBU 2PG21G	1661520000
PG 21	with thread		84	HDC 64D SBU 2PG21G	1661590000
PG 29	with thread		84	HDC 64D SBU 2PG29G	1661630000



Coupling hood



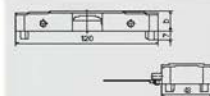
a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		65	HDC 24B KBU 1M25G	1787920000
M 32	with thread		79	HDC 64D KBU 1M32G	1786960000
PG 21	with thread		65	HDC 24B KBU 1PG21G	1661730000
PG 29	with thread		65	HDC 24B KBU 1PG29G	1661730000
PG 29	with thread		79	HDC 64D KBU 1PG29G	1661810000



Cover



Version	Designation	Order No.
for bases	HDC 24B DCDQ4B0	1665630000



RockStar® Housings IP65 / NEMA 4X

End locking, lower side

Size 8

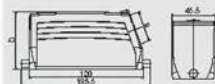
Hood



Hood, Cable Entry sideways



a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread	61	HDC 24B TSLU 1M25G	1787800000	
M 32	with thread	61	HDC 24B TSLU 1M32G	1787790000	
M 32	with thread	76	HDC 64D TSLU 1M32G	1786810000	
M 40	with thread	76	HDC 64D TSLU 1M40G	1804610000	
PG 21	with thread	61	HDC 24B TSLU 1PG21G	1662390000	
PG 21	with thread	76	HDC 64D TSLU 1PG21G	1662470000	
PG 29	with thread	61	HDC 24B TSLU 1PG29G	1662410000	
PG 29	with thread	76	HDC 64D TSLU 1PG29G	1662490000	

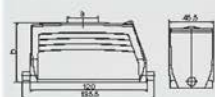


D

Hood, Cable Entry at top



a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread	61	HDC 24B TOLU 1M25G	1787860000	
M 25	with thread	76	HDC 64D TOLU 1M25G	1786870000	
M 32	with thread	61	HDC 24B TOLU 1M32G	1787850000	
M 32	with thread	76	HDC 64D TOLU 1M32G	1786860000	
PG 21	with thread	61	HDC 24B TOLU 1PG21G	1662540000	
PG 21	with thread	76	HDC 64D TOLU 1PG21G	1662610000	
PG 29	with thread	61	HDC 24B TOLU 1PG29G	1662560000	
PG 29	with thread	76	HDC 64D TOLU 1PG29G	1662630000	



End locking, lower side

Size 8

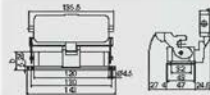
Base



Bulkhead housing



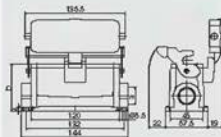
Version	Cover	b (mm)	Designation	Order No.
	with cover	51.3	HDC 24B ADLU	1214300000
		29.3	HDC 24B ALU	1213900000



Base housing



a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		64	HDC 24B.SLU 1M25G	1901560000
M 25	with thread	with cover	96	HDC 24B.SDLU 1M25G	1901480000
M 25	with thread		84	HDC 64D.SLU 1M25G	1904430000
M 25	with thread	with cover	106	HDC 64D.SDLU 1M25G	1904430000
M 25	with thread		64	HDC 24B.SLU 2M25G	1787830000
M 25	with thread	with cover	96	HDC 24B.SDLU 2M25G	1787900000
M 25	with thread		84	HDC 64D.SLU 2M25G	1786910000
M 25	with thread	with cover	106	HDC 64D.SDLU 2M25G	1786950000
M 32	with thread		84	HDC 64D.SLU 1M32G	1904490000
M 32	with thread	with cover	106	HDC 64D.SLU 1M32G	1904490000
M 32	with thread		84	HDC 64D.SLU 2M32G	1786900000
M 32	with thread	with cover	106	HDC 64D.SDLU 2M32G	1786940000
PG 21	with thread		64	HDC 24B.SLU 2PG21G	1662720000
PG 21	with thread	with cover	96	HDC 24B.SDLU 2PG21G	1214500000
PG 29	with thread	with cover	106	HDC 64D.SDLU 2PG29G	1663040000



Side locking, upper side

Size 8

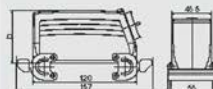
Hood



Hood, Cable Entry sideways



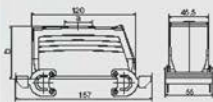
a	Version	Cover	b (mm)	Designation	Order No.
M 25	with thread		61	HDC 24B TSBO 1M25G	1787780000
M 25	with thread		76	HDC 64D TSBO 1M25G	1786800000
M 32	with thread		61	HDC 24B TSBO 1M32G	1787770000
M 32	with thread		76	HDC 64D TSBO 1M32G	1786790000
PG 21	with thread		61	HDC 24B TSBO 1PG21G	1661860000
PG 21	with thread		76	HDC 64D TSBO 1PG21G	1661940000
PG 29	with thread		61	HDC 24B TSBO 1PG29G	1661830000
PG 29	with thread		76	HDC 64D TSBO 1PG29G	1661960000



Hood, Cable Entry at top



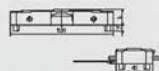
a	Version	Cover	b (mm)	Designation	Order No.
M 32	with thread		61	HDC 24B TCBO 1M32G	1787830000
PG 21	with thread		76	HDC 64D TCBO 1PG21G	1662080000
PG 29	with thread		61	HDC 24B TCBO 1PG29G	1662020000
PG 29	with thread		76	HDC 64D TCBO 1PG29G	1662100000



Cover



Version	Designation	Order No.
for hoods	HDC 24B DMDQ 4B0	1665650000



Base

Bulkhead housing



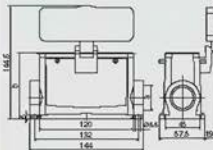
Version	Cover	b (mm)	Designation	Order No.
	with cover	51.3	HDC 24B ADB0	1213300000



Base housing



a	Version	Cover	b (mm)	Designation	Order No.
M 32	with thread	with cover	106	HDC 64D SDBO 1M32G	1904400000
M 32	with thread	with cover	106	HDC 64D SDBO 2M32G	1786920000
PG 21	with thread	with cover	86	HDC 24B SDBO 2PG21G	1662180000
PG 29	with thread	with cover	106	HDC 64D SDBO 1PG29G	1662280000



RockStar® Housings IP65 / NEMA 4X

End locking, lower side

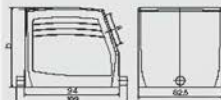
Size 9

Hood



Hood, Cable Entry sideways

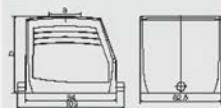
a	Version	Cover	b (mm)	Designation	Order No.
M 32	with thread		79	HDC 48A TSLU 1M32G	1783560000
PG 29	with thread		79	HDC 48A TSLU 1PG29G	1666710000



D

Hood, Cable Entry at top

a	Version	Cover	b (mm)	Designation	Order No.
M 32	with thread		79	HDC 48A TOLU 1M32G	1783560000
PG 29	with thread		79	HDC 48A TOLU 1PG29G	1666730000



RockStar® Housings IP65 / NEMA 4X

Side locking, lower side

Size 10

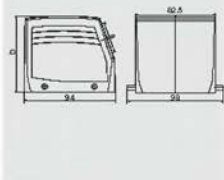
Hood



Hood, Cable Entry sideways



a	Version	Cover	b (mm)	Designation	Order No.
M 32	with thread		79	HDC 32B TSEBU 1M32G	1782430000
PG 29	with thread		79	HDC 32B TSEBU 1PG29G	1668340000

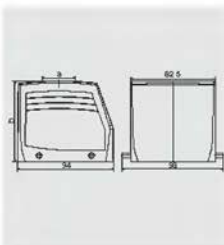


D

Hood, Cable Entry at top



a	Version	Cover	b (mm)	Designation	Order No.
M 32	with thread		79	HDC 32B TCEBU 1M32G	1782430000
PG 29	with thread		79	HDC 32B TCEBU 1PG29G	1668370000
PG 29	with cable gland		79	HDC 32B TCEBU 1PG29V	1217300000



Side locking, lower side

Size 10

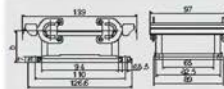
Base



Bulthead housing



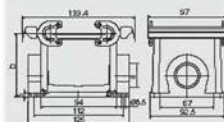
Version	Cover	b (mm)	Designation	Order No.
		38	HDC 32B ABU	1217800000



Base housing



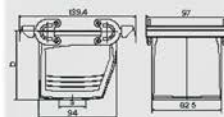
a	Version	Cover	b (mm)	Designation	Order No.
M 32	with thread		79	HDC 32B SBU 1M32G	1902600000
M 32	with thread		79	HDC 32B SBU 2M32G	1783460000
FG 29	with thread		79	HDC 32B SBU 2FG29G	1668920000
FG 36	with thread		79	HDC 32B SBU 1FG36G	1902510000
FG 36	with thread		79	HDC 32B SBU 2FG36G	1902640000



Coupling hood



a	Version	Cover	b (mm)	Designation	Order No.
M 40	with thread		83	HDC 32B KBU 1M40G	1902730000
FG 29	with thread		83	HDC 32B KBU 1FG29G	1902740000
FG 29	with thread		83	HDC 32B KBU 1FG36G	1902750000



RockStar® Housings IP65 / NEMA 4X

End locking, lower side

Size 10

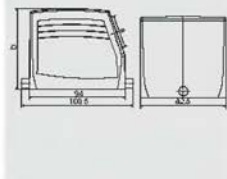
Hood



Hood, Cable Entry sideways



a	Version	Cover	b (mm)	Designation	Order No.
M 32	with thread		79	HDC 32B TSLU 1M32G	1788420000
PG 29	with thread		79	HDC 32B TSLU 1PG29G	1667120000
PG 29	with cable gland		79	HDC 32B TSLU 1PG29V	1219900000

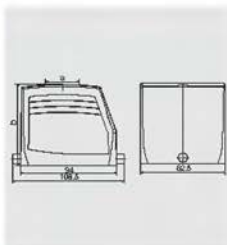


D

Hood, Cable Entry at top



a	Version	Cover	b (mm)	Designation	Order No.
M 32	with thread		79	HDC 32B TCLU 1M32G	1788450000



End locking, lower side

Size 10

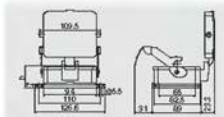
Base



Bulkhead housing



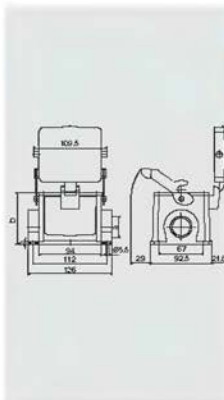
Version	Cover	b (mm)	Designation	Order No.
	with cover	56	HDC 32B ADLU	1219600000
		38	HDC 32B ALU	1219600000



Base housing



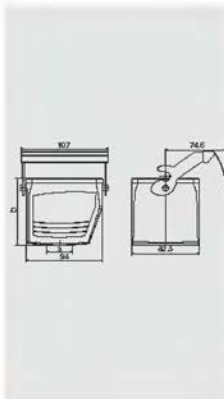
a	Version	Cover	b (mm)	Designation	Order No.
M 32	with thread		79	HDC 32B SLU 1M32G	1902670000
M 32	with thread	with cover	96	HDC 32B SCLU 1M32G	1902650000
M 32	with thread		79	HDC 32B SLU 2M32G	1788470000
M 32	with thread	with cover	96	HDC 32B SCLU 2M32G	1788490000



Coupling hood



a	Version	Cover	b (mm)	Designation	Order No.
M 32	with thread		83	HDC 32B KLU 1M32G	1788500000



RockStar® Housings IP65 / NEMA 4X

Side locking, upper side

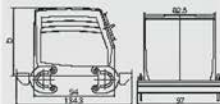
Size 10

Hood



Hood, Cable Entry sideways

a	Version	Cover	b (mm)	Designation	Order No.
M 32	with thread		79	HDC 32B TSBO 1M32G	1788410000



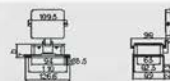
D

Base

Bulkhead housing



Version	Cover	b (mm)	Designation	Order No.
	with cover	55	HDC 32B ADBO	1218800000



RockStar® Housing IP69K

RockStar® Housing IP69K	Overview	E.2
	RockStar® Housing IP69K impact resistant	E.4
	RockStar® Housing IP69K impact resistant XXL	E.10
	RockStar® Housing IP69K EMC	E.12
	RockStar® Housing IP69K EMC XXL	E.18

RockStar® Housing IP69K



The IP69K series of housings from Weidmüller are designed for demanding applications, specifically for tough mechanical conditions outdoors and for reliable immunity of electrical signals from interference.

Features:

- Housing of cast aluminium alloy
- Screw fastening
- Black powder coating
- Integrated surrounding metal collar on plug housing
- Seals on mounted housing: internal O-ring or circumferential flange seal

Typical applications:

- Rail engineering
- Underfloor installation on vehicles
- Shipbuilding

Various versions:

- different sizes
- different housing types
- different types of construction

Their advantages:

- multiple plugging and unplugging of electrical connections
- reliable assembly under time pressure
- corrosion protection
- IP68 / waterproof and dustproof to DIN EN 60529
- IP69K / waterproof for use in high-pressure cleaners to DIN 40050 – Part 9

RockStar® Housing IP69K impact resistant

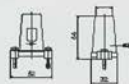
Screw connection
Size 1

Hood

Hood, Cable Entry at top



a	Version	Designation	Order No.
M 20	wth thread	HDC HA3 IP68 TCS 1xM21	1827440000

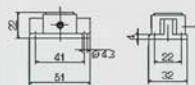


Base

Bulkhead housing



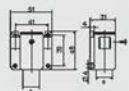
Version	Designation	Order No.
	HDC HA3 IP68 AS M6	1827580000



Base housing



a	Version	Designation	Order No.
M 20	wth thread	HDC HA3 IP68 SS 1xM21	1827630000



Cover



Version	Designation	Order No.
	HDC HA3 IP68 EMVK MD	1826760000



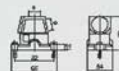
Screw connection
Size 3

Hood

Hood, Cable Entry sideways



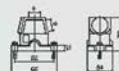
a	Version	Designation	Order No.
M 25	wth thread	HDC HB 6 IP68 TSS 1xM25	1827390000



Hood, Cable Entry at top



a	Version	Designation	Order No.
M 25	wth thread	HDC HB 6 IP68 TDS 1xM25	1827400000



Base

Bulkhead housing



Version	Designation	Order No.
Seal inside	HDC HB 6 IP68 AS M4	1827560000



Bulkhead housing



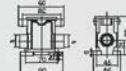
Version	Designation	Order No.
Seal inside	HDC HB 6 IP68 AS M6	1828590000
flat gasket	HDC HB 6 IP68 AS M6 D	1828550000



Base housing



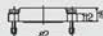
a	Version	Designation	Order No.
M 25	wth thread	HDC HB 6 IP68 SS 2xM25	1827660000



Cover



Version	Designation	Order No.
	HDC HB 6 IP68 BMVK MD	1826750000



RockStar® Housing IP69K impact resistant

Screw connection
Size 4

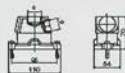
Hood



Hood, Cable Entry sideways



a	Version	Designation	Order No.
M 32	with thread	HDC HB 10 IP68 TSS 1xM33	1827350000



Hood, Cable Entry at top



a	Version	Designation	Order No.
M 32	with thread	HDC HB 10 IP68 TOS 1xM33	1827360000



Base

Bulkhead housing



Version	Designation	Order No.
Seal made	HDC HB 10 IP68 AS M4	1827540000



Bulkhead housing



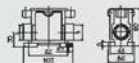
Version	Designation	Order No.
flat gasket	HDC HB 10 IP68 AS M5 D	1828530000
Seal made	HDC HB 10 IP68 AS M6	1828580000



Base housing



a	Version	Designation	Order No.
M 32	with thread	HDC HB 10 IP68 SS 2xM33	1827640000



Cover



Version	Designation	Order No.
	HDC HB 10 IP69 EMVK MD	1826740000



RockStar® Housing IP69K impact resistant

Screw connection
Size 8

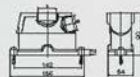
Hood



Hood, Cable Entry sideways



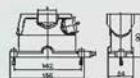
a	Version	Designation	Order No.
M 40	with thread	HDC HB 24 IP68 TSS 1xM41	1827240000



Hood, Cable Entry at top



a	Version	Designation	Order No.
M 40	with thread	HDC HB 24 IP68 TOS 1xM41	1827250000



Base

Bulkhead housing



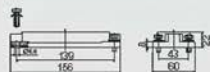
Version	Designation	Order No.
Seal made	HDC HB 24 IP68 AS M4	1827500000



Bulkhead housing



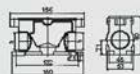
Version	Designation	Order No.
flat gasket	HDC HB 24 IP68 AS M6 D	1828490000
Seal made	HDC HB 24 IP68 AS M6	1828560000



Base housing



a	Version	Designation	Order No.
M 40	with thread	HDC HB 24 IP68 SS 2xM41	1827600000



Cover



Version	Designation	Order No.
	HDC HB 24 IP68 EMVK MD	1826720000



RockStar® Housing IP69K impact resistant XXL

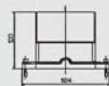
Screw connection
Size 8

Hood

Hood, Cable Entry sideways



a	Version	Designation	Order No.
M 50	wth thread	HDC HB 24 TIP TSS 1xM50G	1827190000



Hood, Cable Entry at top



a	Version	Designation	Order No.
M 50	wth thread	HDC HB 24 TIP TDS 1xM50G	1827200000

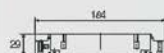


Base

Bulkhead housing



Version	Designation	Order No.
Seal inside, high	HDC HB 24 TIP AS M4	1846020000
Seal inside, standard	HDC HB 24 TIP AS M4	1827480000



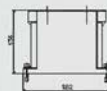
Screw connection
Size 12

Hood

Hood, Cable Entry sideways



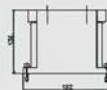
a	Version	Designation	Order No.
M 40	with thread	HDC HB 48 TIP TSS 1xM40G	t827140000



Hood, Cable Entry at top



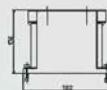
a	Version	Designation	Order No.
M 60	with thread	HDC HB 48 TIP TDS 1xM60G	t827160000



Hood, Cable Entry at front



a	Version	Designation	Order No.
	with thread	HDC HB 48 TIP TVS 1xM50G	t853300000

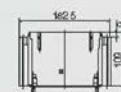


Base

Bulkhead housing



a	Version	Designation	Order No.
	Seal inside, high	HDC HB 48 TIP AS M4	t846000000
	Seal inside, standard	HDC HB 48 TIP AS M4	t827460000



RockStar® Housing IP69K EMC

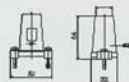
Screw connection
Size 1

Hood

Hood, Cable Entry at top



a	Version	Designation	Order No.
M 20	wth thread	HDC HA3 EMVK TOS 1xM21	t827420000

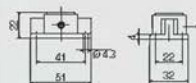


Base

Bulkhead housing



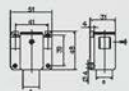
Version	Designation	Order No.
	HDC HA3 EMVK AS N5	t827570000



Base housing



a	Version	Designation	Order No.
M 20	wth thread	HDC HA3 EMVK SS 1xM21	t827670000



Cover



Version	Designation	Order No.
	HDC HA3 IP68 EMVK MD	t826760000



Screw connection
Size 3

Hood

Hood, Cable Entry sideways



a	Version	Designation	Order No.
M 25	with thread	HDC HB 6 EMVK TSS 13xM25	t827370000



Hood, Cable Entry at top



a	Version	Designation	Order No.
M 25	with thread	HDC HB 6 EMVK TOS 13xM26	t827380000



Base

Bulkhead housing



Version	Designation	Order No.
Seal grade	HDC HB 6 EMVK AS M4	t827550000



Bulkhead housing



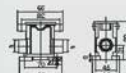
Version	Designation	Order No.
flat gasket	HDC HB 6 EMVK AS M6	t828540000



Base housing



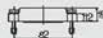
a	Version	Designation	Order No.
M 25	with thread	HDC HB 6 EMVK SS 2xM26	t827850000



Cover



Version	Designation	Order No.
	HDC HB 6 IP68 EMVK MD	t826750000



RockStar® Housing IP69K EMC

Screw connection
Size 4

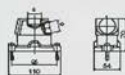
Hood



Hood, Cable Entry sideways



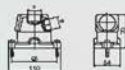
a	Version	Designation	Order No.
M 32	wth thread	HDC HB 10 EMVK TSS 1xM33	1827330000



Hood, Cable Entry at top



a	Version	Designation	Order No.
M 32	wth thread	HDC HB 10 EMVK TCS 1xM33	1827340000



Base

Bulkhead housing



Version	Designation	Order No.
Seal inside	HDC HB 10 EMVK AS M4	1827330000



Bulkhead housing



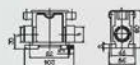
Version	Designation	Order No.
Seal inside	HDC HB 10 EMVK AS M6	1828520000



Base housing



a	Version	Designation	Order No.
M 32	wth thread	HDC HB 10 EMVK SS 2xM33	1827330000



Cover



Version	Designation	Order No.
	HDC HB 10 IP69 EMVK MD	1826740000



RockStar® Housing IP69K EMC

Screw connection
Size 8

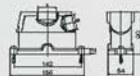
Hood



Hood, Cable Entry sideways



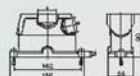
a	Version	Designation	Order No.
M 40	with thread	HDC HB 24 EMVK TSS 1xM41	1827220000



Hood, Cable Entry at top



a	Version	Designation	Order No.
M 40	with thread	HDC HB 24 EMVK TCS 1xM40	1827210000



Base

Bulkhead housing



Version	Designation	Order No.
Seal grade	HDC HB 24 EMVK AS M4	1827490000



Bulkhead housing



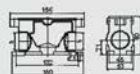
Version	Designation	Order No.
flat gasket	HDC HB 24 EMVK AS M6	1828480000



Base housing



a	Version	Designation	Order No.
M 40	with thread	HDC HB 24 EMVK SS 2xM41	1827590000



Cover



Version	Designation	Order No.
	HDC HB 24 IP69 EMVK MD	1826720000



RockStar® Housing IP69K EMC XXL

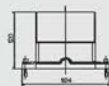
Screw connection
Size 8

Hood

Hood, Cable Entry sideways



a	Version	Designation	Order No.
M 50	wth thread	HDC HB 24 TEK TSS 1xM50G	1827160000



Hood, Cable Entry at top



a	Version	Designation	Order No.
M 50	wth thread	HDC HB 24 TEK TOS 1xM50G	1827170000

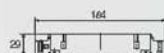


Base

Bulkhead housing



Version	Designation	Order No.
Seal inside, high	HDC HB 24 TEK AS M4	1846010000
Seal inside, standard	HDC HB 24 TEK AS M4	1827470000



Screw connection
Size 12

Hood

Hood, Cable Entry sideways



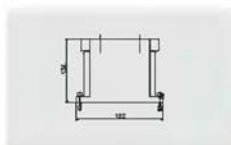
a	Version	Designation	Order No.
M 40	with thread	HDC HB 48 TEK TSS 1xM40G	1827120000



Hood, Cable Entry at top



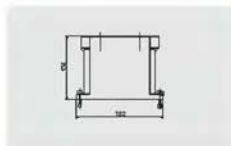
a	Version	Designation	Order No.
M 50	with thread	HDC HB 48 TEK TOS 1xM50G	1827130000



Hood, Cable Entry at front



a	Version	Designation	Order No.
	with thread	HDC HB 48 TEK TVS 1xM50G	1853310000



Base

Bulkhead housing



a	Version	Designation	Order No.
	Seal inside, high	HDC HB 48 TEK AS M4	1845980000
	Seal inside, standard	HDC HB 48 TEK AS M4	1827450000



RockStar® kits

RockStar® kits	Overview	F.2
	Kits with HA inserts	F.4
	Kits with HE inserts	F.8
	Kits with HSB inserts	F.20

RockStar® kits



HDC kits are standardised sets of components for constructing a complete connector. They consist of:

- Male insert
- Female insert
- Connector housing
- Surface-mounted housing
- Cable gland

Weidmüller offers a range of popular connector combinations with metric or PG cable entry threads.

Their advantages:

- simple selection – all necessary components can be found on one page of the catalogue
- simple purchasing – only one part number for all individual parts together
- simple storage / logistics / picking – a complete set is combined in one pack; pick up a pack and everything you need's there and you avoid stocks of started quantities
- simple handling – all you have to carry with you is a pack with the complete set; no loose parts
- simple assembly – a 2.5 mm slotted screwdriver is all you need

Kits with HA inserts, 3 pole

250 V, 10 A



metric versions



Designation	Order No.
HDC-KIT-HA 03 30 M	1802470000

Component	Designation	Order No.
Female	HDC HA 3 FS	149200000
Male	HDC HA 3 MS	1493100000
Bulkhead (Feed-Through)	HDC 04A ALU	1497900000
Hood	HDC 04A TCLU 1M20G	1783820000
Cable glands	VG M20 - MS 68	1772220000

Metal housing



Designation	Order No.
HDC-KIT-HA 03 31 M	1802450000

Component	Designation	Order No.
Female	HDC HA 3 FS	149200000
Male	HDC HA 3 MS	1493100000
Bulkhead (Feed-Through)	HDC 07A ALU	1652410000
Hood	HDC 07A TCLU 1M20G	1783820000
Cable glands	VG M20 - K 68	1772000000

Plastic housing



Designation	Order No.
HDC-KIT-HA 03 32 M	1802450000

Component	Designation	Order No.
Female	HDC HA 3 FS	149200000
Male	HDC HA 3 MS	1493100000
Bulkhead (Feed-Through)	HDC 04A AWLU	1497700000
Hood	HDC 04A TCLU 1M20G	1783820000
Cable glands	VG M20 - MS 68	1772220000

Metal housing

250 V, 10 A

PG versions



Designation	Order No.
HDC-KIT-HA 03 30	1712590000

Component	Designation	Order No.
Female	HDC HA 3 FS	1492000000
Male	HDC HA 3 MS	1493100000
Bulkhead (Feed-Through)	HDC 04A ALU	1497900000
Hood	HDC-HA-3-TDML1/11P	1493500000
Cable glands	VG 11-MS68	1569080000

Metal housing



Designation	Order No.
HDC-KIT-HA 03 31	1712570000

Component	Designation	Order No.
Female	HDC HA 3 FS	1492000000
Male	HDC HA 3 MS	1493100000
Bulkhead (Feed-Through)	HDC 07A ALU	1652410000
Hood	HDC-HA-3-TDML1/11P	1652370000
Cable glands	VG 11-MS68	1563990000

Plastic housing



Designation	Order No.
HDC-KIT-HA 03 32	1712580000

Component	Designation	Order No.
Female	HDC HA 3 FS	1492000000
Male	HDC HA 3 MS	1493100000
Bulkhead (Feed-Through)	HDC 04A AWLU	1497700000
Hood	HDC-HA-3-TDML1/11P	1493500000
Cable glands	VG 11-MS68	1569080000

Metal housing



Designation	Order No.
HDC-KIT-HA 03 44	1712630000

Component	Designation	Order No.
Female	HDC HA 3 FS	1492000000
Male	HDC HA 3 MS	1493100000
Bulkhead (Feed-Through)	HDC 07A AWLU	1652420000
Hood	HDC-HA-3-TDML1/11P	1652370000
Cable glands	VG 11-MS68	1563990000

Plastic housing

250 V, 10 A



metric versions



Designation	Order No.
HDC-KIT-HA 04 40 M	1802440000

Component	Designation	Order No.
Female	HDC HA 4 FS	1493400000
Male	HDC HA 4 MS	1493300000
Bulkhead (Feed-Through)	HDC 04A ALLU	1497900000
Hood	HDC 04A TCLU 1M20G	1783520000
Cable glands	VG M20 - MS 68	1772220000

Metal housing



Designation	Order No.
HDC-KIT-HA 04 41 M	1802430000

Component	Designation	Order No.
Female	HDC HA 4 FS	1493400000
Male	HDC HA 4 MS	1493300000
Bulkhead (Feed-Through)	HDC 07A ALLU	1652410000
Hood	HDC 07A TCLU 1M20G	1783520000
Cable glands	VG M20 - K 68	1772300000

Plastic housing



Designation	Order No.
HDC KIT HA 04 42 M	1802700000

Component	Designation	Order No.
Female	HDC HA 4 FS	1493400000
Male	HDC HA 4 MS	1493300000
Bulkhead (Feed-Through)	HDC 04A AWLU	1497700000
Hood	HDC 04A TCLU 1M20G	1783520000
Cable glands	VG M20 - MS 68	1772220000

Metal housing



Designation	Order No.
HDC KIT HA 04 46 M	1802720000

Component	Designation	Order No.
Female	HDC HA 4 FS	1493400000
Male	HDC HA 4 MS	1493300000
Bulkhead (Feed-Through)	HDC 07A AWLU	1652420000
Hood	HDC 07A TCLU 1M20G	1783520000
Cable glands	VG M20 - K 68	1772300000

Plastic housing

250 V, 10 A



PG versions



Designation	Order No.
HDC-KIT-HA 04 40	1712590000

Component	Designation	Order No.
Female	HDC HA 4 FS	1493400000
Male	HDC HA 4 MS	1493300000
Bulkhead (Feed-Through)	HDC 04A ALU	1497700000
Hood	HDC-HA-3-TQWL1/11P	1493500000
Cable glands	VG 11-MS68	1569030000

Metal housing



Designation	Order No.
HDC-KIT-HA 04 41	1712600000

Component	Designation	Order No.
Female	HDC HA 4 FS	1493400000
Male	HDC HA 4 MS	1493300000
Bulkhead (Feed-Through)	HDC 07A ALU	1652410000
Hood	HDC-HA-D-7-TQWL1/11P	1652370000
Cable glands	VG 11-MS68	1569030000

Plastic housing



Designation	Order No.
HDC-KIT-HA 04 42	1712610000

Component	Designation	Order No.
Female	HDC HA 4 FS	1493400000
Male	HDC HA 4 MS	1493300000
Bulkhead (Feed-Through)	HDC 06A AWLU	1497700000
Hood	HDC-HA-3-TQWL1/11P	1493500000
Cable glands	VG 11-MS68	1569030000

Metal housing



Designation	Order No.
HDC-KIT-HA 04 46	1712650000

Component	Designation	Order No.
Female	HDC HA 4 FS	1493400000
Male	HDC HA 4 MS	1493300000
Bulkhead (Feed-Through)	HDC 07A AWLU	1652420000
Hood	HDC-HA-D-7-TQWL1/11P	1652370000
Cable glands	VG 11-MS68	1569030000

Plastic housing

Kits with HE inserts, 6 pole

500 V, 24 A



metric versions



Designation	Order No.
HDC Kit HE 06 10 M	1802730000

Component	Designation	Order No.
Female	HDC HE 6 FS	1200200000
Male	HDC HE 6 MS	1200000000
Bulkhead (Feed-Through)	HDC 06B ALU	1202100000
Hood	HDC 06B TSLU 1M20G	1788100000
Cable glands	VG M20 - MS 68	1772220000

Metal housing

F



Designation	Order No.
HDC Kit HE 06 11 M	1802740000

Component	Designation	Order No.
Female	HDC HE 6 FS	1200200000
Male	HDC HE 6 MS	1200000000
Bulkhead (Feed-Through)	HDC 06B ALU	1202100000
Hood	HDC 06B TCLU 1M20G	1788120000
Cable glands	VG M20 - MS 68	1772220000

Metal housing

500 V, 24 A (16 A)



PG versions



Designation	Order No.
HDC-KIT-HE 06 10	1712490000

Component	Designation	Order No.
Female	HDC HE 6 FS	1200200000
Male	HDC HE 6 MS	1200000000
Bulkhead (Feed-Through)	HDC 06B ALU	1202100000
Hood	HDC-HB-6-TSML1/16P	1652510000
Cable glands	VG 16-MS68	1569100000

Metal housing



Designation	Order No.
HDC-KIT-HE 06 11	1712690000

Component	Designation	Order No.
Female	HDC HE 6 FS	1200200000
Male	HDC HE 6 MS	1200000000
Bulkhead (Feed-Through)	HDC 06B ALU	1202100000
Hood	HDC-HB-6-TSML1/16P	1652530000
Cable glands	VG 16-MS68	1569100000

Metal housing



Designation	Order No.
HDC-KIT-HE 06 20	1712700000

Component	Designation	Order No.
Female	DSTV HE BL6 S	1848550000
Male	HDC HE 6 MS	1200000000
Bulkhead (Feed-Through)	HDC 06B ALU	1202100000
Hood	HDC-HB-6-TSML1/16P	1652510000
Cable glands	VG 16-MS68	1569100000

Metal housing

Kits with HE inserts, 10 pole

500 V, 16 A

metric versions



Designation	Order No.
HDC-KIT-HE 10 110 M	1802420000

Component	Designation	Order No.
Female	HDC HE 10 FS	1204100000
Male	HDC HE 10 MS	1203900000
Bulkhead (Feed-Through)	HDC 10B ABU	1205000000
Hood	HDC 10B TSEBU 1M25G	1787560000
Cable glands	VG M25 - MS 68	1772230000

Metal housing



Designation	Order No.
HDC-KIT-HE 10 111 M	1802410000

Component	Designation	Order No.
Female	HDC HE 10 FS	1204100000
Male	HDC HE 10 MS	1203900000
Bulkhead (Feed-Through)	HDC 10B ABU	1205000000
Hood	HDC 10B TSEBU 1M25G	1787590000
Cable glands	VG M25 - MS 68	1772230000

Metal housing

500 V, 16 A

PG versions



Designation	Order No.
HDC-KIT-HE 10.110	1712510000

Component	Designation	Order No.
Female	HDC HE 10 FS	1204100000
Male	HDC HE 10 MS	1203900000
Bulkhead (Feed-Through)	HDC 10B ABU	1205000000
Hood	HDC-HE-10-TSVU1/16P	1204800000
Cable glands	VG 16-MS68	1569100000

Metal housing



Designation	Order No.
HDC-KIT-HE 10.111	1712570000

Component	Designation	Order No.
Female	HDC HE 10 FS	1204100000
Male	HDC HE 10 MS	1203900000
Bulkhead (Feed-Through)	HDC 10B ABU	1205000000
Hood	HDC-HE-10-TSVU1/16P	1204700000
Cable glands	VG 16-MS68	1569100000

Metal housing



Designation	Order No.
HDC-KIT-HE 10.210	1712710000

Component	Designation	Order No.
Female	DSTV HE BL10 S	1848570000
Male	HDC HE 10 MS	1203900000
Bulkhead (Feed-Through)	HDC 10B ABU	1205000000
Hood	HDC-HE-10-TSVU1/16P	1204800000
Cable glands	VG 16-MS68	1569100000

Metal housing

Kits with HE inserts, 16 pole

500 V, 16 A

metric versions



Designation	Order No.
HDC-KIT-HE 16 120 M	1802400000

Component	Designation	Order No.
Female	HDC HE 16 FS	1207700000
Male	HDC HE 16 MS	1207500000
Bulkhead (Feed-Through)	HDC 16B ABU	1203600000
Hood	HDC 16B TSEBU 1M25G	1783160000
Cable glands	VG M25 - MS 68	1772230000

Metal housing



Designation	Order No.
HDC-KIT-HE 16 121 M	1802390000

Component	Designation	Order No.
Female	HDC HE 16 FS	1207700000
Male	HDC HE 16 MS	1207500000
Bulkhead (Feed-Through)	HDC 16B ABU	1203600000
Hood	HDC 16B TSEBU 1M25G	1783210000
Cable glands	VG M25 - MS 68	1772230000

Metal housing

500 V, 16 A

PG versions



Designation	Order No.
HDC-KIT-HE 16 120	1712520000

Component	Designation	Order No.
Female	HDC HE 16 FS	1207700000
Male	HDC HE 16 MS	1207500000
Bulkhead (Feed-Through)	HDC 16B ABU	1203800000
Hood	HDC-HB-16-TSVU1/21P	1203400000
Cable glands	VG 21-MS68	1569110000

Metal housing



Designation	Order No.
HDC-KIT-HE 16 121	1712530000

Component	Designation	Order No.
Female	HDC HE 16 FS	1207700000
Male	HDC HE 16 MS	1207500000
Bulkhead (Feed-Through)	HDC 16B ABU	1203800000
Hood	HDC-HB-16-TSVU1/21P	1203400000
Cable glands	VG 21-MS68	1569110000

Metal housing



Designation	Order No.
HDC-KIT-HE 16 220	1712720000

Component	Designation	Order No.
Female	DSTV HE BL16 S	1848580000
Male	HDC HE 16 MS	1207500000
Bulkhead (Feed-Through)	HDC 16B ABU	1203800000
Hood	HDC-HB-16-TSVU1/21P	1203400000
Cable glands	VG 21-MS68	1569110000

Metal housing

Kits with HE inserts, 24 pole

500 V, 16 A

metric versions



Designation	Order No.
HDC-KIT-HE 24 130 M	1802330000

Component	Designation	Order No.
Female	HDC HE 24 FS	1211300000
Male	HDC HE 24 MS	1211100000
Bulkhead (Feed-Through)	HDC 24B ABU	1212400000
Hood	HDC 24B TSEBU 1M32G	1787750000
Cable glands	VG M32 - MS 68	1772240000

Metal housing



Designation	Order No.
HDC-KIT-HE 24 131 M	1802430000

Component	Designation	Order No.
Female	HDC HE 24 FS	1211300000
Male	HDC HE 24 MS	1211100000
Bulkhead (Feed-Through)	HDC 24B ABU	1212400000
Hood	HDC 24B TOBU 1M32G	1787810000
Cable glands	VG M32 - MS 68	1772240000

Metal housing

500 V, 16 A

PG versions



Designation	Order No.
HDC-KIT-HE 24 130	1712930000

Component	Designation	Order No.
Female	HDC HE 24 FS	1211300000
Male	HDC HE 24 MS	1211100000
Bulkhead (Feed-Through)	HDC 24B ABU	1212400000
Hood	HDC-HB-24-TSVU1/21P	1212100000
Cable glands	VG 21-MS68	1569110000

Metal housing



Designation	Order No.
HDC-KIT-HE 24 131	1712930000

Component	Designation	Order No.
Female	HDC HE 24 FS	1211300000
Male	HDC HE 24 MS	1211100000
Bulkhead (Feed-Through)	HDC 24B ABU	1212400000
Hood	HDC-HB-24-TGVU1/21P	1211900000
Cable glands	VG 21-MS68	1569110000

Metal housing



Designation	Order No.
HDC-KIT-HE 24 230	1712730000

Component	Designation	Order No.
Female	DSTV HE BL24 S	1848590000
Male	HDC HE 24 MS	1211100000
Bulkhead (Feed-Through)	HDC 24B ABU	1212400000
Hood	HDC-HB-24-TSVU1/21P	1212100000
Cable glands	VG 21-MS68	1569110000

Metal housing

Kits with HE inserts, 32 pole

500 V, 16 A

metric versions



Designation	Order No.
HDC-KIT-HE 32 140 M	1802370000

Component	Designation	Order No.
Female (24)	HDC HE 16 FS	1207700000
Male (2)	HDC HE 16 MS	1207500000
Bulkhead (Feed-Through)	HDC 32B ASU	1217800000
Hood	HDC 32B TSBU 1M32G	1783400000
Cable glands	VG M32 - MS 68	1772240000

Metal housing

500 V, 16 A

PG versions



Designation	Order No.
HDC-KIT-HE 32 140	1712540000

Component	Designation	Order No.
Female (2x)	HDC HE 16 FS	1207700000
Male (2x)	HDC HE 16 MS	1207500000
Bulkhead (Feed-Through)	HDC 32B ASU	1217800000
Hood	HDC-HB-32-TSVU1/29P	1217500000
Cable glands	VG 29-MS68	1569120000

Metal housing

Kits with HE inserts, 48 pole

500 V, 16 A

metric versions



Designation	Order No.
HDC-KIT-HE 48 160 M	1802350000

Component	Designation	Order No.
Female (24)	HDC HE 24 FS	1211300000
Male (24)	HDC HE 24 MS	1211100000
Bulkhead (Feed-Through)	HDC 48E ADLU	1222900000
Hood	HDC H848 TCVL M40G	1783340000
Cable glands	VG M40 - MS 68	1772250000

Metal housing

500 V, 16 A

PG versions



Designation	Order No.
HDC-KIT-HE 48 150	1712560000

Component	Designation	Order No.
Female (24)	HDC HE 24 FS	1211300000
Male (24)	HDC HE 24 MS	1211100000
Bulkhead (Feed-Through)	HDC 48B ADLU	1222900000
Hood	HDC-HB-48-TSVL1/29P	1222800000
Cable glands	VG 29-MS68	1569120000

Metal housing

Kits with HSB inserts, 6 pole

400 V, 35 A

PG versions



Designation	Order No.
HDC-RT+HSB 06 50	172400000

Component	Designation	Order No.
Female	HDC HSB 6 FS	1492900000
Male	HDC HSB 6 MS	1492700000
Bulkhead (Feed-Through)	HDC 16B ABU	1203900000
Hood	HDC-HB-16-TSVU1/21P	1203400000
Cable glands	VG 21-MS68	1569110000

Metal housing

RockStar® accessories

RockStar® accessories	Crimp contacts	G.2
	FailMate mounting rail system	G.8
	Tools	G.10
	Coding	G.12
	Adapter plates / Cover plates	G.13
	Other accessories	G.14

Crimp contacts

Overview



G

Crimp contacts

Crimping is an electrically and mechanically safe and reliable connection between conductor and contact. An ideal crimp connection is gas-proof and resistant to corrosion.

Weidmüller crimp contacts are supplied in solid, turned form and are optionally available with gold or silver surface.

Fibre optic contacts.

Optical fibres guarantee interference-free transmission without any feedback – and this without additional overvoltage and explosion protection.

Fibre optic contacts can be used without any EMC problems. Their geometry is the same as the HD contacts so they can be used in HD series inserts and the ConCept modular system.

Fixed pole inserts

Technical data

	for HD and HDD inserts	for HE and HEE inserts
Material	Copper alloy	Copper alloy
Surface hard gold-plated	0.8 µm	0.8 µm
Surface hard silver-plated	3 µm	3 µm
Contact resistance	≤ 4 mΩ	≤ 4 mΩ
Clamping range	0.14 ... 2.5 mm ²	0.5 ... 4.0 mm ²
	26 ... 14 AWG	20 ... 12 AWG
Stripping length	8 mm	7.5 mm

For HD and HDD inserts

Crimp contacts

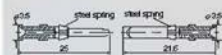
Surface Silver



Surface Gold



Qty	Male	Order No.	Female	Order No.
100	HDC-C-HD-SMD 14-0.37AG	1651520000	HDC-C-HD-EM0 14-0.37AG	1651570000
100	HDC-C-HD-SMD 5AG	1651530000	HDC-C-HD-EM0 5AG	1651580000
100	HDC-C-HD-SMD 75-1.00AG	1601750000	HDC-C-HD-EM0 75-1.00AG	1601760000
100	HDC-C-HD-SM1 5AG	1651550000	HDC-C-HD-EM1 5AG	1651600000
100	HDC-C-HD-SM2 5AG	1651560000	HDC-C-HD-EM2 5AG	1651610000
100	HDC-C-HD-SMD 14-0.37AU	1651620000	HDC-C-HD-EM0 14-0.37AU	1651670000
100	HDC-C-HD-SMD 5AU	1651630000	HDC-C-HD-EM0 5AU	1651680000
100	HDC-C-HD-SMD 75-1.00AU	1651640000	HDC-C-HD-EM0 75-1.00AU	1651690000
100	HDC-C-HD-SM1 5AU	1651650000	HDC-C-HD-EM1 5AU	1651700000
100	HDC-C-HD-SM2 5AU	1651660000	HDC-C-HD-EM2 5AU	1651710000



Conductor size	Stripping length
0.14 - 0.37 mm ²	AWG 26-22 8 mm
0.50 mm ²	AWG 20 8 mm
0.75 - 1.00 mm ²	AWG 18 8 mm
1.50 mm ²	AWG 16 8 mm
2.50 mm ²	AWG 14 8 mm

Tools



Crimping tool	Order No.
CTX CM 1.6 / 2.5	9018490000
Contact release tool	
Removal Tool HD	1866730000

For HE and HEE inserts and CM-HE modules

Crimp contacts

Surface Silver



Surface Gold



Qty	Male	Order No.	Female	Order No.
100	HDC-C-HE-SMD 5AG	1200500000	HDC-C-HE-EM0 5AG	1201100000
100	HDC-C-HE-SMD 75-1.00AG	1200600000	HDC-C-HE-EM0 75-1.00AG	1201200000
100	HDC-C-HE-SM1 5AG	1200700000	HDC-C-HE-EM1 5AG	1201300000
100	HDC-C-HE-SM2 5AG	1200800000	HDC-C-HE-EM2 5AG	1201400000
100	HDC-C-HE-SM4.0AG	1200900000	HDC-C-HE-EM4.0AG	1201500000
100	HDC-C-HE-SMD 5AU	1651420000	HDC-C-HE-EM0 5AU	1651470000
100	HDC-C-HE-SMD 75-1.00AU	1651430000	HDC-C-HE-EM0 75-1.00AU	1651480000
100	HDC-C-HE-SM1 5AU	1651440000	HDC-C-HE-EM1 5AU	1651490000
100	HDC-C-HE-SM2 5AU	1651450000	HDC-C-HE-EM2 5AU	1651500000
100	HDC-C-HE-SM4.0AU	1651460000	HDC-C-HE-EM4.0AU	1651510000



Conductor size	Stripping length
0.50 mm ²	AWG 20 7.5 mm
0.75 - 1.00 mm ²	AWG 18 7.5 mm
1.50 mm ²	AWG 16 7.5 mm
2.50 mm ²	AWG 14 7.5 mm
4.00 mm ²	AWG 12 7.5 mm

Tools



Crimping tool	Order No.
CTX CM 1.6 / 2.5	9018490000
Crimping tools for 4.00 mm ²	
CZB 1	9012710000
Contact release tool	
Removal Tool HE	1866750000

Crimp contacts

For ConCEPT modular system

Technical data

	CM-3	CM-5	CM-10	CM-20	CM-HE
Material	Copper alloy	Copper alloy	Copper alloy	Copper alloy	Copper alloy
Surface hard gold-plated				0.1 ... 0.2 µm	0.8 µm
Surface hard silver-plated	3 µm	3 µm	3 µm		3 µm
Contact resistance	≤ 4 mΩ	≤ 4 mΩ	≤ 4 mΩ	≤ 4 mΩ	≤ 4 mΩ
Clamping range	1.5 ... 10 mm ²	0.75 ... 4.0 mm ²	0.14 ... 2.5 mm ²	0.08 ... 0.62 mm ²	0.5 ... 4.0 mm ²
	12 ... 7 AWG	20 ... 12 AWG	26 ... 14 AWG	28 ... 20 AWG	20 ... 12 AWG
Stripping length	10 mm	7.8 mm	8 mm	2.5 + 0.5 mm	7.4 mm

For CM-3 modules

Crimp contacts

Surface Silver



Qty	Male	Order No.	Female	Order No.
100	HDC-C-M3-SM1 5AG	1698120000	HDC-C-M3-EM1 5AG	1698130000
100	HDC-C-M3-SM2 5AG	1698140000	HDC-C-M3-EM2 5AG	1698150000
100	HDC-C-M3-SM4 0AG	1682230000	HDC-C-M3-EM4 0AG	1682270000
100	HDC-C-M3-SM6 0AG	1682230000	HDC-C-M3-EM6 0AG	1682290000
100	HDC-C-M3-SM10 0AG	1682300000	HDC-C-M3-EM10 0AG	1682310000



Conductor size	Stripping length
1.50 mm ²	AWG 16 10 mm
2.50 mm ²	AWG 14 10 mm
4.00 mm ²	AWG 12 10 mm
6.00 mm ²	AWG 10 10 mm
10.00 mm ²	AWG 7 10 mm

Tools



Crimping tool 1.5 ... 2.5 mm ²	Order No.
CTX CM 1.6 / 2.5	9018490000
Crimping tool 4 ... 10 mm ²	Order No.
CTX CM 3.6	9018480000
Crimping tool 1.5 ... 10 mm ²	Order No.
HDC-CM-3	1700930000
Contact release tool	Order No.
Remove Tool CM3	1866710000

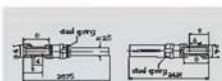
For CM-5 modules

Crimp contacts

Surface Silver



Qty	Male	Order No.	Female	Order No.
100	HDC-C-M5-SM0.75-1.00/AG	1682340000	HDC-C-M5-EM0.75-1.00/AG	1682350000
100	HDC-C-M5-SM1 5AG	1682340000	HDC-C-M5-EM1 5AG	1682370000
100	HDC-C-M5-SM2 5AG	1682330000	HDC-C-M5-EM2 5AG	1682390000
100	HDC-C-M5-SM4 0AG	1682400000	HDC-C-M5-EM4 0AG	1682410000



Conductor size	Stripping length
0.75 - 1.00 mm ²	AWG 18 8 mm
1.50 mm ²	AWG 16 8 mm
2.50 mm ²	AWG 14 8 mm
4.00 mm ²	AWG 12 8 mm

Tools



Crimping tool	Order No.
CTX CM 1.6 / 2.5	9018490000
Contact release tool	Order No.
Remove Tool CM5	1866720000

For CM-10 modules

Crimp contacts

Surface Silver



Qty	Male	Order No.	Female	Order No.
100	HDC-C-HD-SM0 14-0 37AG	1651520000	HDC-C-HD-EM0 14-0 37AG	1651570000
100	HDC-C-HD-SM0 5AG	1651530000	HDC-C-HD-EM0 5AG	1651580000
100	HDC-C-HD-SM0 75-1 00AG	1601750000	HDC-C-HD-EM0 75-1 00AG	1601760000
100	HDC-C-HD-SM1 5AG	1651550000	HDC-C-HD-EM1 5AG	1651600000
100	HDC-C-HD-SM2 5AG	1651560000	HDC-C-HD-EM2 5AG	1651610000

Surface Gold



Qty	Male	Order No.	Female	Order No.
100	HDC-C-HD-SM0 14-0 37AU	1651620000	HDC-C-HD-EM0 14-0 37AU	1651670000
100	HDC-C-HD-SM0 5AU	1651630000	HDC-C-HD-EM0 5AU	1651680000
100	HDC-C-HD-SM0 75-1 00AU	1651640000	HDC-C-HD-EM0 75-1 00AU	1651690000
100	HDC-C-HD-SM1 5AU	1651650000	HDC-C-HD-EM1 5AU	1651700000
100	HDC-C-HD-SM2 5AU	1651660000	HDC-C-HD-EM2 5AU	1651710000



Conductor size	Stripping length
0.14 - 0.37 mm ²	AWG 26-22 8 mm
0.50 mm ²	AWG 20 8 mm
0.75 - 1.00 mm ²	AWG 18 8 mm
1.50 mm ²	AWG 16 8 mm
2.50 mm ²	AWG 14 8 mm

Tools



Cramping tool	Order No.
CTX CM 1 6 / 2 5	9018490000
Contact release tool	
Removal Tool HD	1866730000

For CM-20 modules

Crimp contacts

Surface Gold



Qty	Male	Order No.	Female	Order No.
300	HDC-C-M20-SO00 08-0 2AU	1682420000	HDC-C-M20-SO00 08-0 2AU	1682430000
300	HDC-C-M20-SO00 2-0 62AU	1682440000	HDC-C-M20-SO00 2-0 62AU	1682450000



Conductor size	Stripping length
0.08 - 0.20 mm ²	AWG 28-24 2.5±0.5 mm
0.20 - 0.52 mm ²	AWG 24-20 2.5±0.5 mm

Tools



Cramping tool	Order No.
HDC-CM-20/GZC9428P	1700900000
Contact release tool	
Removal Tool CM20	1866740000

Crimp contacts

Fibre optic contacts



Fibre-optic cables guarantee interference-free transmission without any feedback.

The new fibre optic contacts enable use of fibre-optic cables in heavy-duty connectors. Their geometry is the same as the tried-and-tested HD contacts for connecting conventional copper wires, so they can be used in HD series inserts and the ConCept modular system.

It's even possible to connect optical fibres and copper wires in one connector.

The advantages at a glance:

- Immune to electromagnetic interference
- Absolute contact separation
- Weight reduction by dispensing with copper wires
- High transmission capacity and large bandwidth
- All advantages now also available for robust industrial environment
- IP65 class of protection

HDC-C-HD ... LWL 1.0 POF

Technical data

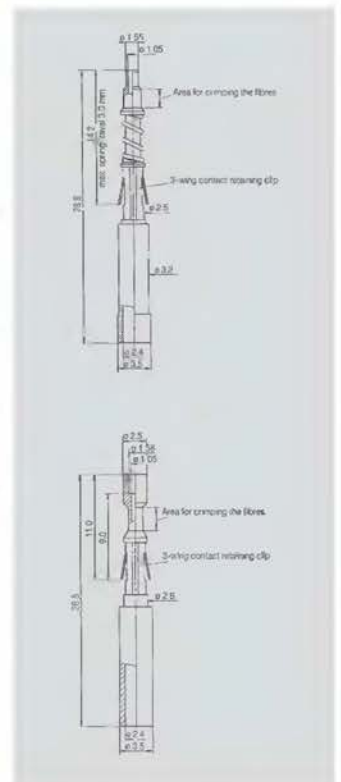
Connection for POF cable	
Maximum outer diameter	2.2 mm
Polymer fibre diameter	1.0 mm
Attenuation	
- Requirement to DIN IEC Part 7 Section 2/05.94:	< 3 dB
- the HDC-C-HD LWL contacts in plugged-in state:	< 2 dB
Mechanical system	
Plugging cycles	min. 25
Plugging force	max. 7.5 N/Pol
Removal force	max. 7.5 N/Pol
Material	
Temperature range	-40°C bis +85°C
Contact material	Nickel-silver
Over-spring	Copper alloy

Ordering data



Qty	Male	Order No.	Female	Order No.
5	HDC-C-HD-S-LWL 1.0 POF	1773630000	HDC-C-HD-B-LWL 1.0 POF	1773640000

HD inserts must be ordered separately



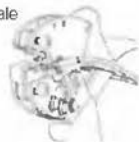
Instructions for assembling fibre optic contacts

1. Cut POF cable (polymer optical fibre) to the required length with cutting tool (we recommend the KT 8).
2. The end face of the fibre of 2.2 mm POF cables must be polished before crimping onto the fibre optic contact. Insert end of POF cable into polishing disc and polish with polishing sheet placed on a smooth surface (e.g. glass plate). Wipe away any residues after polishing. The best optical attenuation values are obtained with wet polishing.
3. Strip sheath of 2.2 mm POF cable to at least 14 mm for female contacts (HDC-C-HD-B-LWL) and at least 19 mm for male contacts (HDC-C-HD-S-LWL).
4. Crimping:
 - A. Insert POF cable into male contact, then both together into the crimping die.
 - B. The female contact has to be inserted angled slightly downwards into the die.
Make sure the end face of the contact and the plastic fibre press against the locator.
 - C. Squeeze the hand levers until the tool unlocks.
 - D. Release option in case of incorrect operation.

A. Male



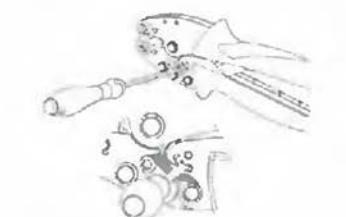
B. Female



C.



D.



Cutting tool – KT 8



Polishing wheel for FO cables – PS LWL/POF



Sheathing stripper for FO cables – AM LWL/POF



Crimping tool – HTX-HDC/POF



Ordering data for tools

	Qty	Order No.
Cutting tool, positioning sleeve included		
KT 8	1	9002950000
Crimping tool for FO set		
HTX-HDC/POF	1	9010950000
Sheathing stripper for FO cable		
AM LWL/PCF	1	9020360000
Polishing wheel for FO cable		
PS LWL/PCF	1	9020390000
PB LWL/PCF	1	9020400000
Polishing sheet, grt 1000	1	9020400000
Contact removal tool, for removing turned HD and FO contacts		
Removal Tool HD	1	1896730000

For mounting rail TS 35 x 7.5 and TS 35 x 15

Cast aluminium housings are not essential within a control cabinet and RailMate may be used as an alternative IP20 solution in order to reduce costs.

This mounting rail system allows you to mount both heavy-duty connector inserts and the ConCept modular connector system on the rail. No tools are needed and connectors are simply snapped in place.

Generous labelling surfaces on the product allow for clear equipment identification.

RailMate enables users to arrange a maximum number of connections in a minimum area within the control cabinet.



Technical data

Material	PC
Properties	Phosphorous and halogen free
Colour	Pebble grey (RAL 7032)
Temperature range	-40°C ... +125°C
Flammability rating	V-0 to UL 94

Ordering data for individual components

Type	For inserts size	Qty	Order No.
Insert receiving frame			
HDC RailMate HB6 Top	3	10	1797540000
HDC RailMate HB10 Top	4	10	1797550000
HDC RailMate HB16 Top	6	10	1797560000
HDC RailMate HB24 Top	8	10	1797570000
Base plate, tab and 2 bottom insert receptacles			
HDC RailMate Base	3, 4, 6, 8	1	1797580000

Ordering data for sets

Type	For inserts size	Qty	Order No.
HDC RailMate HB6 Set	3	1	1797590000
HDC RailMate HB10 Set	4	1	1797590000
HDC RailMate HB16 Set	6	1	1797590000
HDC RailMate HB24 Set	8	1	1797590000

Each set consists of	1 base plate 1 slider 2 bottom insert receptacles 1 insert receiving frame
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Accessories

Type		Qty	Order No.
Coding set			
HDC RailMate COS	50 pins and plugs 6 different code variations	1	1798280000
Marking labels for laser printers (1 sheet = 254 labels)			
LM MT 300 20/8	silver	10 sheets	1695390001
LM MT 300 20/8	white	10 sheets	1695381044
LM MT 300 20/8	yellow	10 sheets	1695381687
Marking labels for thermal transfer printers (1 Roll = 10,000 labels)			
THM MT30X 32/9	silver	1 Roll	1751770001
LM MT 300 20/8	white	1 Roll	1751771044
LM MT 300 20/8	yellow	1 Roll	1751771687

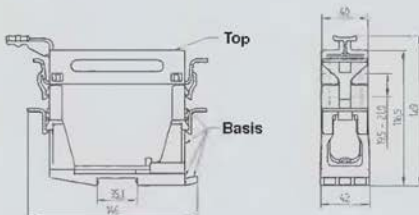
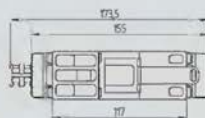
Insert receptacle frame for sizes 3, 4, 6 and 8

2 insert receptacles bottoms

Base plate with slider

Rider (adjusts to sizes 3, 4, 6 and 8)

Dimensions



Tools

Crimping tools

- Automatic lock guarantees quality crimp
- Release option in case of incorrect operation
- With stop for exact positioning of contacts

CTX CM 1.6 / 2.5 + CM 3.6

for turned contacts



CTX CM 1.6/2.5 (0.14 ... 2.5 mm²)

- turned HD contacts
- turned HE contacts
- ConCept contacts

CTX CM 3.6 (4.0 ... 10.0 mm²)

- turned HD contacts
- ConCept M3 contacts and similar designs

CZB1 + HDC-CM-3

for turned contacts



CZB1

- Crimping tool for HE series male and female contacts in the size range 0.5 ... 4.0 mm²
- 4-indent crimp

HDC-CM-3

- Crimping tool for male and female contacts of CM-3 modules in the size range 1.5 ... 10 mm²
- 4-indent crimp

HDC-CM 20

Crimping tool



HDC-CM-20

- Crimping tool for diameters of 1.0 mm, D-Sub contacts with 0.08 ... 0.52 mm² conductor size of ConCept CM-20 module.

Length = 230 mm
Weight = 650 g

G



Technical data

Contact description
Type of contact
Crimp ranges

CTX CM 1.6/2.5	CTX CM 3.6
turned contacts	turned contacts
0.14 ... 2.5 mm²	4 ... 10 mm²
0.14 ... 0.5 mm²	4 mm²
0.75 ... 1 mm²	6 mm²
1.5 mm²	10 mm²

CZB1	HDC-CM-3
HE contacts	CM-3 contacts
0.5 ... 4 mm²	1.5 ... 10 mm²

Tools data

Length mm
Weight g
Note

	CTX CM 1.6/2.5	CTX CM 3.6
Length	260	260
Weight	730	730

	CZB1	HDC-CM-3
Length	165	165
Weight	230	230

Ordering data

Type	Qty	Order No.
CTX CM 1.6/2.5	1	9018490000
CTX CM 3.6	1	9018480000

Type	Qty	Order No.
CZB1	1	9012710000
HDC-CM-3	1	1700890000

Ordering data

Type	Qty	Order No.
HDC CM 20	1	1700900000

Removal tools

Contact removal tools



(a) (b) (c) (d)

Removal tools (a-c)
for contacts CM3, CM5, HD,
CM20, HE

HDC-DW-MOD

Module removal tool



Tool for removing ConCept modules
from the frame

... POF

Optical fibre tools



POF sheath stripping tool
AM LWL/POF

For stripping the sheathing of
polymer optical fibre cables.

- Length stop with scale integrated
in the tool
- Stripping direction along the fibre
- No damage to fibres

Polishing wheel (PS LWL/POF)
Polishing sheet (PB LWL/POF)

for polishing the cut face of optical
fibres.



Crimping tool for optical fibre
contacts HTX HDC/POF

- One tool for male and female
contacts
- Locator on tool
- No positioning of locator needed
- Release option in case of
incorrect operation
- Contacts insert from the side

Contacts:

- Fibre optic HD contacts for
1.0 mm cross-section POF

Ordering data

Type	Qty	Order No.
Removal Tool CM 3	1	1886710000
Removal Tool CM 5	1	1886720000
Removal Tool HD	1	1886730000
Removal Tool CM 20	1	1886740000
Removal Tool HE	1	1886750000
DW RSV 1.6	1	9004530000

Ordering data

Type	Qty	Order No.
HDC-DW-MOD	1	1632200000

Ordering data

Type	Qty	Order No.
AM LWL/PCF		9020360000
PS LWL/PCF		9020390000
PB LWL/PCF		9020400000
HTX-HDC/PCF		9010950000

Coding


Coding pins

Where several connectors of similar type are arranged on a machine, it is essential to avoid the risk of connectors being inserted in the wrong place.

If you have up to 6 connectors to code, Weidmüller coding pins are the simplest solution. They allow 6 secure coding variations.

Ordering data

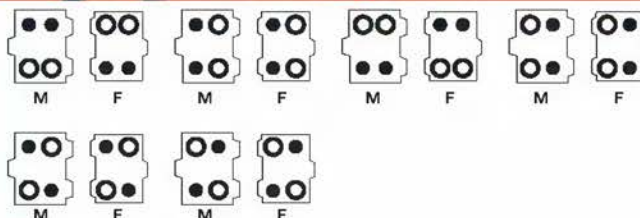
Type	Qty	Order No.
SPE-M 3	10	1203600000



Allow 4 coding pins for each connector.

In this case, you substitute 2 M3 fastening screws on the female insert by coding pins. On the male insert, you leave the opposing fastening screws where they are and substitute the others by coding pins. You then have a pair of inserts that fit together. The coding diagram illustrates the system.

Coding arrangement for coding pins



Coding system


If you have more than 6 connectors of similar type to code, you need coding pins and coding sockets.

Replace all M3 fastening screws of an insert by 2 coding pins and 2 coding sockets. You then fit 2 coding pins and 2 coding sockets to the mating insert, however in complementary arrangement.

Fit coding pins to the other connectors in the same way, but with a different arrangement. The coding diagram illustrates the system.

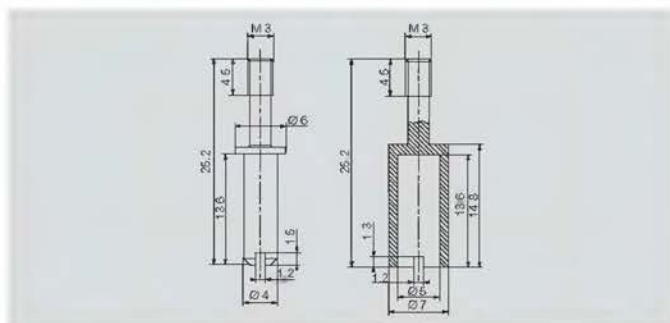
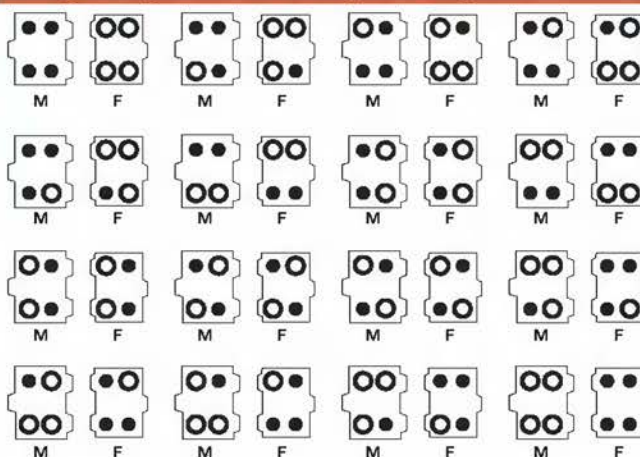
Ordering data

Type	Qty	Order No.
DSTV COST4	100	1471300000
DSTV COST5	100	1471500000

Cod. socket 5 mm dia 
Cod. pin 4 mm dia 

Allow 4 coding pins for each connector

Coding arrangement for coding sockets/pins



Adapter plates, plastic



Cover plates



Adapter plates, SUB-D



Ordering data

Type	Size	Qty	Order No.
orange			
ADP-8/2-CR	3	10	1664980000
ADP-8/4-CR	4	10	1665000000
ADP-8/6-CR	6	10	1665020000

grey			
ADP-8/2-GR	3	10	1664990000
ADP-8/4-GR	4	10	1665010000
ADP-8/6-GR	6	10	1665030000

Type	Size	Qty	Order No.
Sheet steel			
ABD-1 sheet steel	1	10	9457300000

Plastic, grey			
ABD-2-GR	2	10	1664330000
ABD-3-GR	3	10	1664350000
ABD-4-GR	4	10	1664360000
ABD-5-GR	5	10	1664370000
ABD-6-GR	6	10	1664390000
ABD-8-GR	8	10	1664970000

Plastic, orange			
ABD-8-CR	8	10	1664960000

Type	Aperture	Qty	Order No.
Size 3			
ADS6-1/9	1 x SUB-D 9	10	1665940000
ADS6-2/9	2 x SUB-D 9	10	1665960000
ADS6-1/15	1 x SUB-D 15	10	1666200000
ADS6-2/15	2 x SUB-D 15	10	1666210000

Size 4			
ADS10-1/25	1 x SUB-D 25	10	1666220000
ADS10-2/25	2 x SUB-D 25	10	1666230000

Size 6			
ADS16-1/25	1 x SUB-D 25	10	1666320000
ADS16-2/25	2 x SUB-D 25	10	1666330000
ADS16-1/37	1 x SUB-D 37	10	1666340000
ADS16-2/37	2 x SUB-D 37	10	1666360000
ADS16-1/50	1 x SUB-D 50	10	1666400000

Other accessories

Gaskets



Locking foot for TS 35 mounting rail



Locking hook



Example: DSTV-TS

G

Ordering data

Type	for mounted housing	Qty	Order No.
HDC-HA3 FD	HA-3	5	1739220000
HDC-HA10 FD	HA-10	5	1739200000
HDC-HA16 FD	HA-16	5	1739190000
HDC-HA32 FD	HA-32	5	1739210000
HDC-HA48 FD	HA-48	5	1855950000
HDC-HB6 FD	HB-6	5	1855960000
HDC-HB10 FD	HB-10	5	1855970000
HDC-HB16 FD	HB-16	5	1855980000
HDC-HB24 FD	HB-24	5	1855990000
HDC-HB32 FD	HB-32	5	1856000000
HDC-HB48 FD	HB-48	5	1856010000
HDC-HB10 AWVL FD	HB-10 AWVL	5	1855680000

Type	Qty	Order No.
DSTV-TS 6-24	10	1595220000

Type	Qty	Order No.
DSTV-TS 6 VH	10	1595220000
DSTV-TS 10-24 VH	10	1595240000

For all inserts apart from HA and all inserts of size 1

For all inserts apart from HA and all inserts of size 1

**Shield lever for sizes 3 (06B), 4 (10B), 6 (16B) and 8 (24B)
for fitting of shield clamps or KLBÜ 3–8 SC**

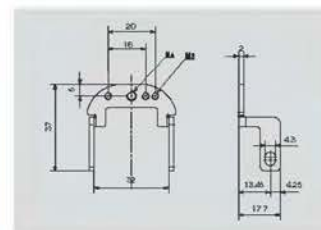
Technical data

Use	Clamping of the shield
Fastening of shield lever	To PE terminal, both sides, 2nd screw for fixing
Cable connection system	Shield clamp or KLBÜ damping yoke
No. shield clamps or KLBÜ damping yokes	
Size 3 (06B)	1* or 1
Size 4 (10B)	2* or 2
Size 6 (16B)	3* or 3
Size 8 (24B)	5* or 5
	* Fastening points of shield clamp, 16 mm spacing
Clamping range shield clamp	see page G.16
Material	Steel
Surface	Galvanised
Temperature range	-40°C ... +125°C

Shield lever

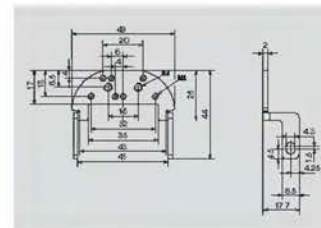
HDC SHIELD LEVER 3 SC

Type	Order No.
HDC SHIELD LEVER 3 SC	1867390000



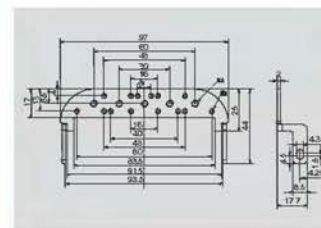
HDC SHIELD LEVER 4 SC

Type	Order No.
HDC SHIELD LEVER 4 SC	1867370000



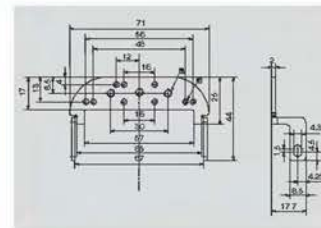
HDC SHIELD LEVER 6 SC

Type	Order No.
HDC SHIELD LEVER 6 SC	1867380000



HDC SHIELD LEVER 8 SC

Type	Order No.
HDC SHIELD LEVER 8 SC	1867360000



Other accessories

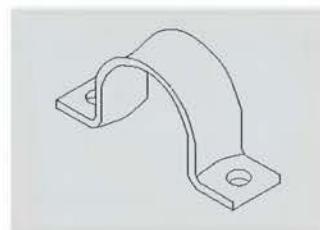
Shield clamps for shield levers
of size 3 (06B), 4 (10B), 6 (16B) and 8 (24B)

Technical data

Use	Clamps shield on the shield lever	
Fastening of shield lever	With supplied fastening accessories	
Clamping range shield clamp	Cable diameter mm	Gauge of fastening holes mm
Shield clamp 10 mm	10	20
Shield clamp 9 mm	9	20
Shield clamp 8 mm	8	20
Shield clamp 7 mm	7	20
Shield clamp 6 mm	6	16
Shield clamp 5 mm	5	16
Shield clamp 4.5 mm	4.5	16
Material	Steel	
Surface	Galvanised	
Temperature range	-40°C ... +125°C	

Shield clamps

Type	Order No.
HDC Shield Clamp 10.0	1912250000
HDC Shield Clamp 9	1912240000
HDC Shield Clamp 8	1912230000
HDC Shield Clamp 7	1912220000
HDC Shield Clamp 6	1912210000
HDC Shield Clamp 5	1912200000
HDC Shield Clamp 4.5	1912190000

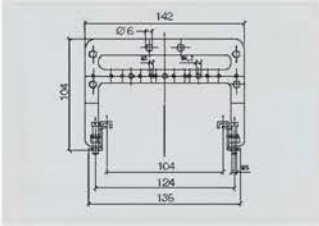


HDC GRIP PANEL 8 SC

Technical data

Use	
	To establish direct contact to bulkhead Fastened with integrated M5 screws
Advantages	
	Bridged contact surface gives large-area contact Low contact resistance; high torsional rigidity Shield can be connected to grip panel
Material data Grip Panel 8 SC	
Material	Steel
Surface	Galvanised
Temperature range	-40°C to +125°C
System data	
Size	24E or 8 KLBÜ and shield clamps can be used Cable ties can be used for fixing cable

Grip panel

Type	Order No.	
HDC GRIP PANEL 8 SC	1934 770000	

Cable entries and Cabtite

Cable entries and Cabtite

Selection guide	H.2
Standard cable glands – plastic	H.6
Standard cable glands – brass	H.8
Cable glands for Ex applications – plastic	H.10
Cable glands for Ex applications – brass	H.11
Thread sealing rings	H.12
Blanking plugs	H.13
Cabtite – Cable entry system	H.14
Cabtite – Cable grommets	H.15
Cabtite – Cable entry frames	H.16
Cabtite – Separable cable glands	H.19

Overview

In this section of the catalogue, we offer you a selected range of cable glands specifically for use with the heavy-duty connectors.





Our complete range can be found in the Enclosures catalogue.






Cable glands

The tables below provide an overview of the Weidmüller cable glands and the recommended accessories.



Standard glands

Material/type	Approvals			EMV	Armouring	Thread sealing rings			O-ring	Locknuts			MS EMC
	IP class of protection without seal	IP class of protection with seal	EX			CSM GWR...Po	CR GWR...JP	grey SKM...K GR		black SKM...K SW	brass SKM...MS	SKM EHV...	
Plastic													
 VG ... K67	IP67										●		
 VG ... K68	IP68 / 5 bar										●		
 VG ... K68 SKS	IP68 / 5 bar										●		
Nickel-plated brass													
 VG ... MS54	IP54	IP66				optional						●	
 VG ... MS68		IP68 / 5 bar						included				●	
 VG ... MS64-ZE	IP54	IP66				optional						●	
Stainless steel glands on request													

Cable glands Ex

Material/type	Approvals			EMV	Armouring	Thread sealing rings			O-ring	Locknuts			MS EMC
	IP class of protection without seal	IP class of protection with seal	EX			CSM GWR...Po	CR GWR...JP	grey SKM...K GR		black SKM...K SW	brass SKM...MS	SKM EHV...	
Plastic Ex													
 VG ... Exe SW	IP66	IP68	Exe				optional				●		
 VG ... Exd BL	IP66	IP68	Exd				optional				●		
Nickel-plated brass Ex													
 VG ... Exe MS		IP68 / 20 bar	Exe					included				●	●
Stainless steel glands on request													

Blanking plugs

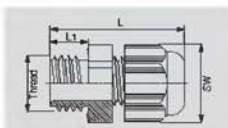
Material/type	Approvals			EX	CSM GWR...Po	Thread sealing rings			O-ring	Locknuts			MS EMC
	IP class of protection without seal	IP class of protection with seal				CR GWR...JP	grey SKM...K GR	black SKM...K SW		brass SKM...MS	SKM EHV...		
Plastic													
 VP ... K54	IP54	IP66								●	●		
Nickel-plated brass													
 VP ... MS55		IP68						included				●	●

Standard cable glands – plastic

Glands – plastic – IP67



Inexpensive alternative for industrial applications - without approvals.



Technical data

Material / colour	Polyamide 6 / RAL 7035
Sealing ring / Sealing insert	- / TPE
Temperature range	-20 °C ... 80 °C
Class of protection	IP 67

Note: Version with moulded sealing lip
Length L varies depending on the cable diameter used

Ordering data

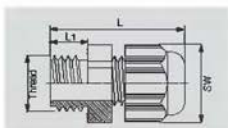
Type metric	Thread-size	KB	L/L1	SW	Qty.	Order No.
VG M12-K67	M 12 x 1.5	3 - 6.5	23.9 / 8	15	100	1909680000
VG M16-K67	M 16 x 1.5	4 - 8	27.7 / 8	19	50	1909670000
VG M16-K67	M 16 x 1.5	5 - 10	29 / 10	22	50	1909690000
VG M20-K67	M 20 x 1.5	6 - 12	29.2 / 10	24	50	1909690000
VG M20-K67	M 20 x 1.5	10 - 14	32.8 / 10	27	50	1909700000
VG M25-K67	M 25 x 1.5	13 - 18	37.9 / 10	33	25	1909710000
VG M32-K67	M 32 x 1.5	18 - 25	40.7 / 10	42	20	1909720000
VG M40-K67	M 40 x 1.5	22 - 32	51.3 / 10	53	10	1909730000
VG M50-K67	M 50 x 1.5	30 - 38	53.5 / 18	60	10	1909740000
VG M63-K67	M 63 x 1.5	34 - 44	55 / 18	65	10	1909750000
PG						
VG PG7-K67	PG 7	3 - 6.5	23.9 / 8	15	100	1909760000
VG PG9-K67	PG 9	4 - 8	27.7 / 8	19	50	1909770000
VG PG11-K67	PG 11	5 - 10	29 / 8	22	50	1909780000
VG PG13.5-K67	PG 13.5	6 - 12	29.2 / 9	24	50	1909790000
VG PG16-K67	PG 16	10 - 14	32.8 / 9	27	50	1909800000
VG PG21-K67	PG 21	13 - 18	37.9 / 11	33	25	1909810000
VG PG29-K67	PG 29	18 - 25	40.7 / 11	42	20	1909820000
VG PG36-K67	PG 36	22 - 32	51.3 / 13	53	10	1909830000
VG PG42-K67	PG 42	30 - 38	53.5 / 13	60	10	1909840000
VG PG48-K67	PG 48	34 - 44	55 / 14	65	10	1909850000

no approvals

Glands – plastic – IP68



Plastic cable gland for industrial applications where class of protection IP 68 is called for.



Technical data

Material / colour	Polyamide 6 / RAL 7035
Sealing ring / Sealing insert	- / CR
Temperature range	-30 °C ... 80 °C
Class of protection	IP 68 - 5 bar
Standard	EN 50262 (for metric thread)

Note: Version with moulded sealing lip
Length L varies depending on the cable diameter used

Ordering data

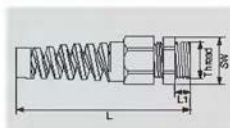
Type metric	Thread-size	KB	L/L1	SW	Qty.	Order No.
VG M12-1/K68	M 12 x 1.5	3 - 6.5	32.4 / 8	15	100	1772280000
VG M16-1/K68	M 16 x 1.5	4.5 - 10	36.7 / 10	22	50	1909860000
VG M20-1/K68	M 20 x 1.5	6 - 12	41.2 / 10	24	50	1772300000
VG M25-1/K68	M 25 x 1.5	11 - 17	43.2 / 8	29	25	1909870000
VG M32-1/K68	M 32 x 1.5	15 - 21	50.7 / 10	36	20	1909880000
VG M40-1/K68	M 40 x 1.5	19 - 28	55.2 / 10	45	10	1909890000
VG M50-1/K68	M 50 x 1.5	27 - 38	70.3 / 18	60	10	1909900000
VG M63-1/K68	M 63 x 1.5	34 - 44	72.9 / 18	65	10	1772360000
PG						
VG 7-K68	PG 7	3 - 6.5	30.5 / 8	15	100	1568970000
VG 9-K68	PG 9	4 - 8	34 / 8	19	50	1568980000
VG 11-K68	PG 11	5 - 10	37 / 8	22	50	1568990000
VG 13.5-K68	PG 13.5	6 - 12	39 / 9	24	50	1569000000
VG 16-K68	PG 16	10 - 14	42.5 / 10	27	50	1569010000
VG 21-K68	PG 21	13 - 18	48 / 11	33	25	1569020000
VG 29-K68	PG 29	18 - 25	53 / 11	42	20	1569030000
VG 36-K68	PG 36	22 - 32	65 / 13	53	10	1569040000
VG 42-K68	PG 42	30 - 38	68 / 13	60	10	1569050000
VG 48-K68	PG 48	34 - 44	69 / 14	65	10	1718770000

VDE for metric version

Glands – plastic – SKS



Plastic gland with spiral anti-drip protection especially for flexible connections.



Technical data

Material / colour	Polyamide 6 / RAL 7035
Sealing ring / Sealing insert	- / CR
Temperature range	-20 °C ... 80 °C
Class of protection	IP 68 - 5 bar
Standard	EN 50262 (for metric thread)

Note	Version with moulded sealing lip Length L varies depending on the cable diameter used
------	--

Ordering data

Type	Thread-size	KB	L/L1	SW	Qty.	Order No.
metric						
VG M12-K68 SKS	M 12 x 1.5	3 - 6.5	66.5 / 8	15	100	1776700000
VG M16-K68 SKS	M 16 x 1.5	5 - 10	80 / 10	22	50	1776710000
VG M20-K68 SKS	M 20 x 1.5	6 - 12	106 / 11	24	50	1776720000
VG M20-K68 SKS	M 20 x 1.5	10 - 14	106 / 15	27	50	1776720000
VG M25-K68 SKS	M 25 x 1.5	13 - 18	129 / 16	33	25	1776730000
PG						
VG 7-K68 SKS	PG 7	3 - 6.5	62 / 8	15	50	1720470000
VG 9-K68 SKS	PG 9	4 - 8	78 / 8	19	50	1720480000
VG 11-K68 SKS	PG 11	5 - 10	84 / 8	22	100	1720490000
VG 13,5-K68 SKS	PG 13,5	6 - 12	105 / 9	24	50	1720500000
VG 16-K68 SKS	PG 16	10 - 14	117 / 10	27	25	1720510000
VG 21-K68 SKS	PG 21	13 - 18	130 / 11	33	20	1720520000

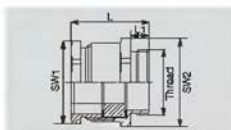
VDE for metric version

Standard cable glands – brass

Glands – brass – IP54



Brass cable gland for industrial applications.



Technical data

Material	Brass, nickel-plated
Sealing ring / Sealing insert	- / soft rubber
Temperature range	-20 °C ... 60 °C
Class of protection / with GWDR	IP 64 / IP 65
Standard	DIN 46320 / C4

Note	Optional sealing ring Length L varies depending on the cable diameter used.
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Ordering data

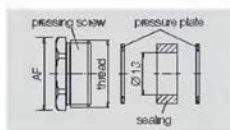
Type	Thread-size	KB	L/L1	SW1/SW2	Qty.	Order No.
metric:						
VG M12-MS54	M 12 x 1.5	5 - 7	21.5 / 6	14 / 13	100	1778410000
VG M12-MS64	M 12 x 1.5	6 - 8	22 / 6	17 / 15	100	1778400000
VG M16-MS54	M 16 x 1.5	8 - 10	26 / 6.5	20 / 18	100	1778390000
VG M20-MS54	M 20 x 1.5	8 - 10	26.5 / 6.5	22 / 18	50	1778380000
VG M20-MS64	M 20 x 1.5	10 - 12	26.5 / 6.5	22 / 20	50	1778370000
VG M25-MS54	M 25 x 1.5	12 - 14	27.5 / 7	27 / 22	50	1778360000
VG M25-MS64	M 25 x 1.5	16 - 17	29.5 / 7	30 / 28	50	1778350000
VG M32-MS54	M 32 x 1.5	24 - 26	33 / 8	40 / 38	25	1778340000
VG M40-MS54	M 40 x 1.5	28 - 30	33 / 8	43 / 37	25	1778330000
VG M60-MS54	M 60 x 1.5	31 - 33	39 / 9	56 / 47	10	1778320000
VG M60-MS64	M 60 x 1.5	39 - 41	43 / 9	57 / 54	6	1778310000
VG M63-MS54	M 63 x 1.5	45 - 47	46 / 10	68 / 60	5	1778300000
PG						
VG 7-MS54	PG 7	5 - 7	20.5 / 6	14 / 13	100	0521500000
VG 9-MS54	PG 9	6 - 8	22 / 6	17 / 15	100	0261500000
VG 11-MS54	PG 11	8 - 10	26 / 6	20 / 18	50	0260700000
VG 13.5-MS54	PG 13.5	10 - 12	26 / 6.5	22 / 20	50	0260800000
VG 16-MS54	PG 16	12 - 14	27 / 6.5	24 / 22	50	0261400000
VG 21-MS54	PG 21	15 - 17	29.5 / 7	30 / 28	50	0260900000
VG 29-MS54	PG 29	24 - 26	33 / 8	40 / 37	25	0261000000
VG 36-MS54	PG 36	33 - 35	39 / 9	50 / 47	20	0497600000
VG 42-MS54	PG 42	41 - 43	44 / 10	57 / 54	10	0497700000
VG 48-MS54	PG 48	45 - 47	46 / 10	64 / 60	5	1718780000

Further versions on request

Half cable glands – brass – IP65



Half cable glands are designed for use in the new HDC Rock-Star base housings. The combination of half cable gland and housing provides IP 65 class of protection.



Technical data

Material	Nickel-plated brass
- pressure screw	NER / NBR
- sealing ring	Polyamide
- pressure ring	
Temperature range	-20°C ... +60°C

Note

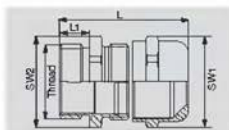
Ordering data

Type	Thread	Clamp. range	AF	Qty	Order No.
metric:					
VG H M20 MS	M 20 x 1.5	7.0 x 10.0 x 13.0 mm	20	1	1921720000
VG H M25 MS	M 25 x 1.5	11.5 x 14.5 x 18.0 mm	25	1	1921740000
VG H M32 MS	M 32 x 1.5	19.0 x 22.0 x 25.0 mm	32	1	1921760000
VG H M40 MS	M 40 x 1.5	26.0 x 29.0 x 32.0 mm	40	1	1921770000
PG					
KV 11 - M	PG 11	10.0 x 12.5 mm	18	10	1656390000
KV 13 - M	PG 13.5	10.0 x 11.0 x 12.0 mm	24	10	1656400000
KV 16 - M	PG 16	10.0 x 12.5 x 15.0 mm	22	10	1656410000
KV 21 - M	PG 21	13.0 x 16.0 x 19.0 mm	28	10	1656420000
KV 29 - M	PG 29	21.0 x 24.0 x 27.0 mm	37	10	1656430000
KV 42 - M	PG 42	41.0 x 42.0 x 43.0 mm	65	5	1656450000

Glands – brass – IP68



Brass cable gland for industrial applications where class of protection IP 68 is called for.



Technical data

Material	Brass, nickel-plated
Sealing ring / Sealing insert	- / CR
Temperature range	-40 °C ... 100 °C
Class of protection / with GWDR	IP 68 / IP 68 - 5 bar

Note Length L varies according to cable diameter used

Ordering data

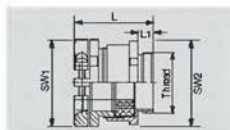
Type	Thread-size	KB	L/L1	SW1/SW2	Qty.	Order No.
metric:						
VG M12-1/MS68	M 12 x 1.5	3 - 6.5	27.2 / 5	14	50	1772200000
VG M16-1/MS68	M 16 x 1.5	4.5 - 10	37.3 / 7.5	20	50	1909910000
VG M20-1/MS68	M 20 x 1.5	6 - 12	32 / 8	22	50	1772200000
VG M25-1/MS68	M 25 x 1.5	11 - 17	42 / 8	27	25	1909920000
VG M32-1/MS68	M 32 x 1.5	15 - 21	45 / 8	34	20	1909930000
VG M40-1/MS68	M 40 x 1.5	19 - 28	55.1 / 9	43	20	1909940000
VG M50-1/MS68	M 50 x 1.5	27 - 38	62.2 / 9	58	12	1909950000
VG M63-1/MS68	M 63 x 1.5	34 - 44	63.6 / 14	68 / 64	12	1772270000
PG						
VG 7-MS68	PG 7	3 - 6.5	23 / 5	14	50	1569060000
VG 9-MS68	PG 9	4 - 8	27 / 6	17	50	1569070000
VG 11-MS68	PG 11	5 - 10	28.5 / 6	20	50	1569080000
VG 13.5-MS68	PG 13.5	6 - 12	29.5 / 6.5	22	50	1569090000
VG 16-MS68	PG 16	10 - 14	29.5 / 6.5	24	25	1569100000
VG 21-MS68	PG 21	13 - 18	33.5 / 7	30	25	1569110000
VG 29-MS68	PG 29	18 - 25	37.5 / 8	40	20	1569120000
VG 36-MS68	PG 36	22 - 32	45 / 9	50	15	1569130000
VG 42-MS68	PG 42	30 - 38	47.5 / 10	58	12	1569140000
VG 48-MS68	PG 48	34 - 44	50.5 / 10	64	12	1718790000

Further versions on request
VDE for metric versions

Glands – brass – ZE



Brass cable gland with external concentric strain relief by means of clamping jaws.



Technical data

Material	Brass, nickel-plated
Sealing ring / Sealing insert	- / CR
Temperature range	-30 °C ... 90 °C
Class of protection / with GWDR	IP 54 / IP 65

Note Optional sealing ring
Length L varies depending on the cable diameter used.

Ordering data

Type	Thread-size	KB	L/L1	SW1/SW2	Qty.	Order No.
metric:						
VG M12-MS54 ZE	M 12 x 1.5	5 - 7	21.5 / 6	14	100	1778420000
VG M16-MS54 ZE	M 16 x 1.5	4 - 9.5	26 / 6	18	100	1778440000
VG M20-MS54 ZE	M 20 x 1.5	6 - 11.5	26.5 / 6.5	22	50	1778450000
VG M25-MS54 ZE	M 25 x 1.5	6 - 13.5	26.5 / 6.5	22	50	1778460000
VG M25-MS54 ZE	M 25 x 1.5	9 - 21.5	29.5 / 7	30	50	1778480000
VG M32-MS54 ZE	M 32 x 1.5	17 - 29.5	33 / 8	39	25	1778490000
VG M40-MS54 ZE	M 40 x 1.5	23 - 36.5	33 / 8	43	25	1778500000
VG M50-MS54 ZE	M 50 x 1.5	29 - 42.5	43 / 9	57	5	1778520000
VG M63-MS54 ZE	M 63 x 1.5	35 - 46.5	46 / 10	68	5	1778530000
PG						
VG 7-MS54-ZE	PG 7	5 - 7	27 / 5	14 / 16	50	1718800000
VG 9-MS54-ZE	PG 9	4 - 11	30.5 / 6	17 / 19	50	1718810000
VG 11-MS54-ZE	PG 11	6 - 13	31.5 / 6	20 / 22	50	1718820000
VG 13.5-MS54-ZE	PG 13.5	6 - 13	32 / 6.5	22 / 24	50	1718830000
VG 16-MS54-ZE	PG 16	6 - 16	33 / 6.5	24 / 27	50	1718840000
VG 21-MS54-ZE	PG 21	9 - 20	38 / 7	30 / 34	50	1718850000
VG 29-MS54-ZE	PG 29	17 - 28	43 / 8	40 / 42	25	1718860000
VG 36-MS54-ZE	PG 36	23 - 34	49.5 / 9	50 / 52	10	1718870000
VG 42-MS54-ZE	PG 42	29 - 40	53.5 / 10	57 / 62	5	1718880000
VG 48-MS54-ZE	PG 48	35 - 46	56 / 10	64 / 68	5	1718890000

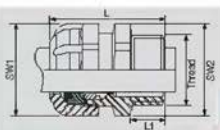
Further versions on request

Cable glands for Ex applications – plastic

Glands – plastic – Ex e, IP 66 / IP 68



Black plastic cable gland with integral strain relief - especially for Ex applications.
Complete with integral membrane seal for clean transportation and storage.



Technical data

Material / colour	Polyamide / RAL 9006
Sealing ring / Sealing insert	- / TPE
Temperature range	-20 °C ... 80 °C
Class of protection / with GWDR	IP 66 / IP 68
Approval	EEx e II, Ⓢ II 2 GD
Test certificate	LCIE 97ATEX6007 X
Note	Optional sealing ring Length L varies depending on the cable diameter used.

Ordering data

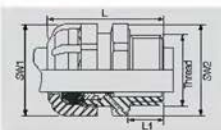
Type	Thread-size	KB	L/L1	SW1/SW2	Qty.	Order No.
metric						
VG M16-EXE SW	M 16 x 1.5	5 - 8	34 / 12	19	20	1737290000
VG M20-EXE SW	M 20 x 1.5	8 - 13	36 / 12	24	20	1737290000
VG M25-EXE SW	M 25 x 1.5	13 - 19	42 / 13	32	20	1737300000
VG M32-EXE SW	M 32 x 1.5	17 - 25	44 / 16	41	10	1737310000
VG M40-EXE SW	M 40 x 1.5	24 - 32	50 / 16	52	10	1737320000
VG M50-EXE SW	M 50 x 1.5	29 - 38	56 / 16	59	5	1737330000
VG M63-EXE SW	M 63 x 1.5	36 - 44	58 / 16	65	5	1737340000
PG						
VG 7-EXE SW	PG 7	3.5 - 6	27 / 9	15	50	1569300000
VG 9-EXE SW	PG 9	5 - 8	31 / 9	19	20	1490500000
VG 11-EXE SW	PG 11	6 - 10	31 / 9	22	20	1490600000
VG 13.5-EXE SW	PG 13.5	8 - 13	33 / 10	24	20	1490700000
VG 16-EXE SW	PG 16	10 - 16	33 / 10	26	20	1490800000
VG 21-EXE SW	PG 21	13 - 19	40 / 11	32	20	1490900000
VG 29-EXE SW	PG 29	17 - 25	41 / 12	41	10	1491000000
VG 36-EXE SW	PG 36	24 - 32	49 / 14	52	10	1491100000
VG 42-EXE SW	PG 42	28 - 38	56 / 16	59	10	1491200000
VG 48-EXE SW	PG 48	34 - 44	60 / 16	65	5	1718970000

Further versions on request

Glands – plastic – EEx i, IP 66 / IP 68



Blue plastic gland with integral strain relief - especially for Ex applications.
Complete with integral membrane seal for clean transportation and storage.



Technical data

Material / colour	Polyamide / RAL 6012
Sealing ring / Sealing insert	- / TPE
Temperature range	-20 °C ... 80 °C
Class of protection / with GWDR	IP 66 / IP 68
Approval	EEx e II, Ⓢ II 2 GD
Test certificate	LCIE 97ATEX6007 X
Note	Optional sealing ring Length L varies depending on the cable diameter used.

Ordering data

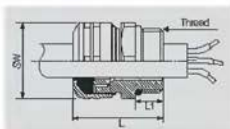
Type	Thread-size	KB	L/L1	SW1/SW2	Qty.	Order No.
metric						
VG M16-EXI BL	M 16 x 1.5	5 - 8	34 / 12	19	20	1737360000
VG M20-EXI BL	M 20 x 1.5	8 - 13	36 / 12	24	20	1737360000
VG M25-EXI BL	M 25 x 1.5	13 - 19	42 / 13	32	20	1737370000
VG M32-EXI BL	M 32 x 1.5	17 - 25	44 / 16	41	10	1737380000
VG M40-EXI BL	M 40 x 1.5	24 - 32	50 / 16	52	10	1737390000
VG M50-EXI BL	M 50 x 1.5	29 - 38	56 / 16	59	5	1737400000
VG M63-EXI BL	M 63 x 1.5	36 - 44	58 / 16	65 / 67	5	1737410000
PG						
VG 7-EXI BL	PG 7	3.5 - 6	27 / 9	15	50	1569370000
VG 9-EXI BL	PG 9	5 - 8	31 / 9	19	20	1491300000
VG 11-EXI BL	PG 11	6 - 10	31 / 9	22	20	1491400000
VG 13.5-EXI BL	PG 13.5	8 - 13	33 / 10	24	20	1491500000
VG 16-EXI BL	PG 16	10 - 16	33 / 10	26	20	1491600000
VG 21-EXI BL	PG 21	13 - 19	40 / 11	32	20	1491700000
VG 29-EXI BL	PG 29	17 - 25	41 / 12	41	10	1491800000
VG 36-EXI BL	PG 36	24 - 32	49 / 14	52	10	1491900000
VG 42-EXI BL	PG 42	28 - 38	56 / 16	59	10	1492000000
VG 48-EXI BL	PG 48	34 - 44	60 / 16	65	5	1718980000

Further versions on request

Glands – brass – Ex e, IP 68



Brass cable gland for use in Ex applications EEx I und Ex e.



Technical data

Material	Brass, nickel-plated
Sealing ring / Sealing insert	- / CR
Temperature range	-40 °C ... 100 °C
Class of protection / with GWDR	IP 66 / IP 68 - 20 bar
Approval	EEx e II, Ⓜ II 2 GD
Test certificate	LCIE 97ATEX006 X
Note	Length L varies according to cable diameter used.

Ordering data

Type	Thread-size	KB	L/L1	SW	Qty.	Order No.
metric:						
VG M16-EXE MS	M 16 x 1.5	7 - 11	28 / 8	22	50	1737210000
VG M20-EXE MS	M 20 x 1.5	8.5 - 13	28 / 8	24	50	1737220000
VG M25-EXE MS	M 25 x 1.5	13.6 - 18	33 / 9	30	20	1737230000
VG M32-EXE MS	M 32 x 1.5	17.6 - 25	38 / 10	41	20	1737240000
VG M40-EXE MS	M 40 x 1.5	24.6 - 33.6	49 / 11	52	10	1737250000
VG M50-EXE MS	M 50 x 1.5	33 - 43	54 / 12	63	5	1737260000
VG M63-EXE MS	M 63 x 1.5	43.6 - 66	60 / 13	77	5	1737270000
PG						
VG 7-EXE MS	PG 7	4 - 8	24 / 7	18	50	1718990000
VG 9-EXE MS	PG 9	6 - 11	28 / 8	22	50	1719000000
VG 11-EXE MS	PG 11	7.5 - 13	28 / 8	24	50	1719010000
VG 13.5-EXE MS	PG 13.5	7.5 - 13	32 / 8	24	50	1719020000
VG 16-EXE MS	PG 16	12.6 - 18	33 / 9	30	25	1719030000
VG 21-EXE MS	PG 21	17.6 - 23.6	38 / 10	41	20	1719040000
VG 29-EXE MS	PG 29	24.6 - 31.6	49 / 11	52	20	1719050000
VG 36-EXE MS	PG 36	33 - 40.6	54 / 12	63	10	1719060000
VG 42-EXE MS	PG 42	33 - 43	54 / 12	63	10	1719070000
VG 48-EXE MS	PG 48	33 - 43	60 / 13	77	5	1719080000

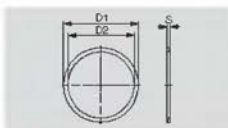
Further versions - also in stainless steel - available on request

Thread sealing rings

Sealing rings – standard



For increasing the class of protection for cable glands and blanking plugs.



Technical data

Material / colour	Polyethylene / -
Temperature range	-30 °C ... 90 °C
Standard	DIN 46320 (for PG thread)

Note

Ordering data

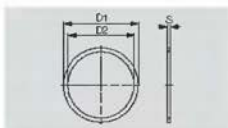
Type	Thread-size	D1	D2	S	Qty.	Order No.
metric:						
GWDR M12-PO	M 12 x 1.5	16	12	1.5	50	1777920000
GWDR M16-PO	M 16 x 1.5	20	16	1.5	50	1777930000
GWDR M20-PO	M 20 x 1.5	24	20	2	100	1777940000
GWDR M25-PO	M 25 x 1.5	29	25	2	50	1777950000
GWDR M32-PO	M 32 x 1.5	36	32	2	50	1777960000
GWDR M40-PO	M 40 x 1.5	44	40	2	50	1777970000
GWDR M50-PO	M 50 x 1.5	54	50	2	50	1777980000
GWDR M63-PO	M 63 x 1.5	67	63	2	50	1777990000
PG						
GWDR PG7-PO	PG 7	16.5	12.5	1.6	100	1719440000
GWDR PG9-PO	PG 9	19	15.3	1.6	100	1719450000
GWDR PG11-PO	PG 11	22.5	18.6	1.8	100	1719460000
GWDR PG13.5-PO	PG 13.5	26	20.4	1.8	100	1719470000
GWDR PG16-PO	PG 16	27	22.5	1.8	100	1719480000
GWDR PG21-PO	PG 21	33.5	28.6	2.2	100	1719490000
GWDR PG29-PO	PG 29	43.5	37	2.2	50	1719500000
GWDR PG36-PO	PG 36	56	47	2.7	50	1719510000
GWDR PG42-PO	PG 42	63	54	3.2	10	1719520000
GWDR PG48-PO	PG 48	69	59.3	3.2	5	1719530000

Further versions on request!

Sealing rings – 9005



For increasing the class of protection for cable glands and blanking plugs - recommended for use in Ex applications.



Technical data

Material / colour	Neprene / RAL 9005
Temperature range	-40 °C ... 100 °C
Standard	DIN 46320 (for PG thread)

Note

Ordering data

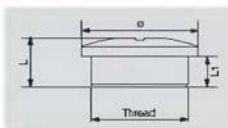
Type	Thread-size	D1	D2	S	Qty.	Order No.
metric:						
GWDR M12-NP	M 12	18	12	1.2	50	1913200000
GWDR M16-NP	M 16	22	16	1.2	50	1796200000
GWDR M20-NP	M 20	24	20	1.2	50	1796200000
GWDR M25-NP	M 25	30	25	1.5	50	1796250000
GWDR M32-NP	M 32	42	32	1.5	50	1796260000
GWDR M40-NP	M 40	52	40	1.5	20	1796270000
GWDR M50-NP	M 50	63	50	1.5	20	1796280000
GWDR M63-NP	M 63	77	63	2	10	1796290000
PG						
GWDR PG7-NP	PG 7	17	11.6	1.2	100	1719540000
GWDR PG9-NP	PG 9	21	14	1.2	100	1719550000
GWDR PG11-NP	PG 11	24	17	1.2	100	1719560000
GWDR PG13.5-NP	PG 13.5	27	19.5	1.2	100	1719570000
GWDR PG16-NP	PG 16	30	22.5	1.2	100	1719580000
GWDR PG21-NP	PG 21	36	28.3	1.5	100	1719590000
GWDR PG29-NP	PG 29	45	37	1.5	50	1719600000
GWDR PG36-NP	PG 36	60	47	1.5	20	1719610000
GWDR PG42-NP	PG 42	65	54	1.5	10	1719620000
GWDR PG48-NP	PG 48	71	59.3	1.5	5	1719630000

Further versions on request!

Sealing plugs – plastic



For sealing surplus threaded holes to maintain the IP class of protection.



Technical data

Material / colour	Polyamide 6 / RAL 7035
Sealing ring	-
Temperature range	-40 °C ... 100 °C
Class of protection / with GWDR	IP 54 / IP 66
Standard	DIN 46320 (for PG thread)

Note Optional sealing ring

Ordering data

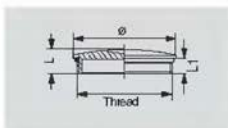
Type metric	Thread-size	L	L1	Top dia.	Qty.	Order No.
VP M12-K54	M 12 x 1.5	10	6	15	100	1778930000
VP M16-K54	M 16 x 1.5	11.5	7	19	100	1778920000
VP M20-K54	M 20 x 1.5	12.5	7.5	22	100	1778910000
VP M25-K54	M 25 x 1.5	15	11	27	100	1778900000
VP M32-K54	M 32 x 1.5	16	11	34	100	1778940000
VP M40-K54	M 40 x 1.5	18	12	42	50	1778950000
VP M50-K54	M 50 x 1.5	20	13	52	25	1778960000
VP M63-K54	M 63 x 1.5	20	14	65	50	1778970000
PG						
VP 7-K54	PG 7	8	6	15	50	1719250000
VP 9-K54	PG 9	9	6	19	100	0294760000
VP 11-K54	PG 11	10.5	6.5	22	100	0294830000
VP 13,5-K54	PG 13,5	9.5	6	25	100	0294960000
VP 16-K54	PG 16	9.5	6	27	100	0295060000
VP 21-K54	PG 21	11	8	33	100	0295160000
VP 29-K54	PG 29	12	8	44	50	0501160000
VP 36-K54	PG 36	15	10	56	25	0501290000
VP 42-K54	PG 42	16	10	62	10	0501330000
VP 48-K54	PG 48	16	12	69	5	1719230000

Further versions on request

Sealing plugs – brass



For sealing surplus threaded holes to maintain the IP class of protection.



Technical data

Material / colour	Brass, nickel-plated / -
Sealing ring	-
Temperature range	-30 °C ... 100 °C
Class of protection / with GWDR	- / IP 68

Note

Ordering data

Type metric	Thread-size	L	L1	Top dia.	Qty.	Order No.
VP M12-MS65	M 12 x 1.5	7.4	5	14	100	1777720000
VP M16-MS65	M 16 x 1.5	8	6	20	100	1777730000
VP M20-MS65	M 20 x 1.5	9.4	6.5	22	100	1777740000
VP M25-MS65	M 25 x 1.5	10.8	7	28	100	1777750000
VP M32-MS65	M 32 x 1.5	11.6	8	35	50	1777760000
VP M40-MS65	M 40 x 1.5	12.3	8	45	50	1777770000
VP M50-MS65	M 50 x 1.5	15	9	55	25	1777780000
VP M63-MS65	M 63 x 1.5	18	10	68	10	1777790000
PG						
VP 7-MS65	PG 7	8	5	15	100	0521600000
VP 9-MS65	PG 9	8	4.5	18	100	0294700000
VP 11-MS65	PG 11	8	5	22	100	0294800000
VP 13,5-MS65	PG 13,5	9.5	6	24	100	0294900000
VP 16-MS65	PG 16	9	6	26	100	0295000000
VP 21-MS65	PG 21	11	6	32	100	0295100000
VP 29-MS65	PG 29	12	8	40	50	0501100000
VP 36-MS65	PG 36	15	9	50	25	0501200000
VP 42-MS65	PG 42	16	10	57	10	0501300000
VP 48-MS65	PG 48	16	10	64	5	1719270000

Further versions on request

Cabtite – Cable entry system

Do you really need a plug-in connector on the outside of your switchgear cabinet?

Or do you simply just want to make the right connections?

Now you can save space, time and money with Cabtite.

Cabtite makes it possible for you to insert your pre-assembled connectors through the cabinet wall and, at the same time, achieves a minimum protection classification of IP54.

The manufacturer's guarantee remains valid because the cable does not have to be cut.

The individual elements of the system result in countless combination options because the same sealing grommets are utilised for the entry frames and the cable glands.

In particular, when used for measurement circuits, servo cables, computer cables or fieldbus systems, Cabtite is suitable for use in the following applications:

- Control engineering
- Switchgear cabinet manufacture
- Motor vehicle manufacture
- Systems engineering
- Mechanical engineering
- Electrical installation

Cabtite KEL SNAP frame



Separable cable gland Cabtite KVT



Cabtite sample set

Get a feel for the Cabtite system with our Cabtite sample set. It contains cable entry frames, snap frames, separable cable glands as well as diverse cable grommets.

Ordering data

Type	Qty	Order No.
Cabtite Sample Kit	1	1849780000

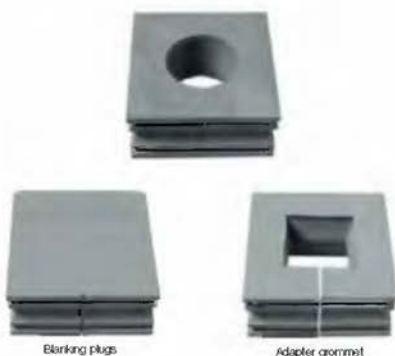
HDC KT ...

Cable grommets, small

Cable grommets
for ASI cables

HDC KT ...

Cable grommets, large



Blanking plugs

Adapter grommet

Technical data

Material, grey	Free from elastomers, halogens and silicone
Material, black	Elastomers with very high chemical resistance
Temperature range	-20°C 80°C
UL94 flammability rating	V0

Technical data

Material, grey	Free from elastomers, halogens and silicone
Material, black	Elastomers with very high chemical resistance
Temperature range	-20°C 80°C
UL94 flammability rating	V0

Ordering data

Type	Clamping range [mm]	Qty	Order No. grey	Order No. black
HDC KT 3	3-4	10	1829460000	1827790000
HDC KT 4	4-6	10	1829470000	1827800000
HDC KT 5	5-6	10	1829480000	1827810000
HDC KT 6	6-7	10	1829490000	1827830000
HDC KT 7	7-8	10	1829500000	1827840000
HDC KT 8	8-9	10	1829510000	1827850000
HDC KT 9	9-10	10	1829520000	1827860000
HDC KT 10	10-11	10	1829530000	1827870000
HDC KT 11	11-12	10	1829540000	1827880000
HDC KT 12	12-13	10	1829550000	1827890000
HDC KT 13	13-14	10	1829560000	1827900000
HDC KT 14	14-16	10	1829570000	1827910000
HDC KT 15	15-16	10	1829580000	1827920000
HDC KTS 16	16-17	10	1829590000	1827930000
HDC KTS 17	17-18	10	1829600000	1827940000
for ASI cables				
HDC KT-ASI		10	1829610000	1828120000
2 or 4 openings				
HDC KT 2/4	2 x 4	10	1829620000	1828130000
HDC KT 2/5	2 x 5	10	1829630000	1828140000
HDC KT 2/6	2 x 6	10	1829640000	1828150000
HDC KT 4/5	4 x 5	10	1829650000	1828160000
Blanking plugs, small				
HDC BTK		10	1828170000	1828200000

Ordering data

Type	Clamping range [mm]	Qty	Order No. grey	Order No. black
HDC KT 16	16-17	10	1829660000	1827950000
HDC KT 17	17-18	10	1829670000	1827960000
HDC KT 18	18-19	10	1829680000	1827970000
HDC KT 19	19-20	10	1829690000	1827980000
HDC KT 20	20-21	10	1829700000	1827990000
HDC KT 21	21-22	10	1829710000	1828000000
HDC KT 22	22-23	10	1829720000	1828010000
HDC KT 23	23-24	10	1829730000	1828020000
HDC KT 24	24-25	10	1829740000	1828030000
HDC KT 25	25-26	10	1829750000	1828040000
HDC KT 26	26-27	10	1829760000	1828050000
HDC KT 27	27-28	10	1829770000	1828060000
HDC KT 28	28-29	10	1829780000	1828070000
HDC KT 29	29-30	10	1829790000	1828080000
HDC KT 30	31-32	10	1829800000	1828090000
HDC KT 32	32-33	10	1829810000	1828100000
HDC KT 34	33-34	10	1829820000	1828110000
Adapter grommet, large (for small cable grommets)				
HDC ATG		10	1828190000	1828220000
Blanking plugs, large				
HDC BTG		10	1828180000	1828210000

Cabtite KEL

Cabtite KEL

The rectangular panel cutout frames fit exactly into the standard cutout for heavy-duty connectors.

This makes it possible to accommodate up to 40 connectors in a very confined space.

- Feeds through prefabricated wiring in confined spaces.
- Two-piece, two-tier system
- Fast and easy mounting
- Standard panel cutout frames for 16- and 24-pole industrial plug-in connectors
- The predefined gap achieves a minimum class of protection of IP54
- Large numbers of cables in very confined spaces
- Retrofitting of prefabricated wiring also possible
- The manufacturer's guarantee covering the prefabricated cables remains valid
- Integral strain relief to VDE 0619
- Locknuts ensure that working "overhead" is safe and simple

Cabtite KEL SNAP frame

Snap frame for mounting the cable entry frame in the switchgear cabinet.

- The KEL can be fitted quickly without tools
- The KEL need not be fitted or removed to add or remove individual cables
- The drilling pattern is identical with that of the KEL
- Seals are already integrated on both sides
- Switchgear cabinets can be fitted with KEL SNAP in advance
- KEL SNAP is available for KEL 16 and KEL 24



Operating mode

1. The grommet is fitted around the cable.

Important:
Choose a grommet with an appropriate clamping range for the diameter of the cable!



2. Press the grommet with the cable into the open cable entry frame.

Important:
The flat side of the grommet must face upwards!



3. Assemble the two halves of the cable entry frame using the M5x50 Allen screws supplied. This achieves integral strain relief in accordance with VDE 0619 (VDE = German Association for Electrical, Electronic and Information Technologies).



4. Finally, the rubber seal is glued around the cabinet panel cutout and the cable entry frame is secured with 4 screws. The cable entry is now complete, and has a protection class of IP54!



Advantage: The panel cutout frames are the same as those used for heavy-duty connectors. They are supplied by the switchgear cabinet manufacturers. You do not require a new punching die!

HDC KEL 16

Size equivalent to 16-pole HE inserts

KEL 16/8 with 8 small grommets



KEL 16/4 closed half-shell and 4 small grommets

Snap frame
KEL 16 SNAP**Technical data**

Material	Polyamide, free from halogenes and silicone
Colour	black
Temperature range	-20°C ... 80°C
Class of protection	IP54, when the correct cable grommet is selected
UL94 flammability rating	V0

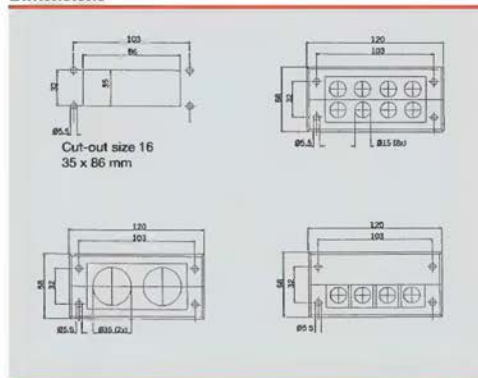
Ordering data

Type	Number of grommet positions		Qty	Order No.
	small	large		
HDC KEL 16/2	-	2	10	182580000
HDC KEL 16/4	4	-*)	10	182590000
HDC KEL 16/5	4	1	10	184977000
HDC KEL 16/8	8	-	10	182591000

Snap frame

HDC KEL 16 SNAP	10	182777000
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*) with closed half shell

Dimensions**HDC KEL 24**

Size equivalent to 24-pole HE inserts

KEL 24/10 with 10 small grommets



KEL 24/7 with 1 large and 6 small grommets

Snap frame
KEL 24 SNAP**Technical data**

Material	Polyamide, free from halogenes and silicone
Colour	black
Temperature range	-20°C ... 80°C
Class of protection	IP54, when the correct cable grommet is selected
UL94 flammability rating	V0

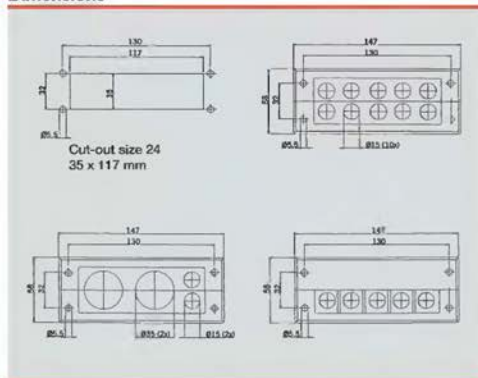
Ordering data

Type	Number of grommet positions		Qty	Order No.
	small	large		
HDC KEL 24/4	2	2	10	182560000
HDC KEL 24/5	5	-*)	10	182594000
HDC KEL 24/7	6	1	10	184978000
HDC KEL 24/10	10	-	10	182776000

Snap frame

HDC KEL 24 SNAP	10	182778000
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*) with closed half shell

Dimensions

Cabtite – Cable entry frames

Cable clamping rail Cabtite KEL-EMV

Feeds through prefabricated cables without interrupting the shielding

Advantages:

- Direct, simple and quick contact with the enclosure
- Two-tier version saves space with up to 10 cables
- Strain relief without cable ties in accordance with VDE 0619
- No EMC cable glands necessary for mains-generated interference sources
- Low-impedance shielding contact
- Seals using outer sheath and not the shield = higher class of protection!
- Trouble-free retrofitting



H

Technical data

Material	Stainless steel
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Ordering data

Type	for	Qty	Order No.
HDC KEL EMV 16/4	KEL 16	10	1825750000
HDC KEL EMV 24/5	KEL 24	10	1825760000
HDC KEL EMV x3	KEL 16 and KEL 24 transverse	10	1825770000

Cabtite KVT

KVTs are used to feed through prefabricated cables when space is tight or only a few cables are required. As is the case with its big brother, the KEL, this product is also a two-piece system for easy assembly using the same cable grommets. The preassembled KVT 32 can be used for hole diameters up to 35 mm, the KVT 63 for hole diameters up to 65 mm. A sealing ring is also included.

- This two-piece system means that the size of the plug-in connector to be fed through is limited only by the size of the hole diameter.
- Two-piece two-tier system
- Fast and easy mounting
- The predefined gap achieves a minimum class of protection of IP54
- Large numbers of cables in very confined spaces
- Retrofitting of prefabricated wiring also possible
- The manufacturer's guarantee covering the prefabricated cables remains valid
- Integral strain relief to VDE 0619



KVT 32

Locknut for D-Sub 9
KGM-SUB-D9

KVT 63-1

Technical data

Material	Polyamide, free from halogens and silicone
Class of protection	IP54, when the correct cable grommet is selected
Temperature range	-6°C ... 70°C
UL94 flammability rating	V0

Ordering data

Type	Thread	For grommet small large	Qty	Order No. white	Order No. black
HDC KVT 25	M 25 x 1.5	1 -	10	1828660000	1828260000
HDC KVT 32	M 32 x 1.5	1 -	10	1828670000	1828270000
HDC KVT 63-4	M 63 x 1.5	4 -	5	1828290000	1828290000
HDC KVT 63-1	M 63 x 1.5	- 1	5	1828240000	1828290000

Note: HDC KVT 63-x types are supplied with a locknut.

Locknut for D-Sub 9					
Type	Thread	Qty	Order No.	Order No.	
KGM-SUB-D9	M 32 x 1.5	10	1828250000	1828300000	

Operating mode

1. The grommet is fitted around the cable.

Important:

Choose an appropriately sized grommet for the diameter of the cable!



2. Press the grommet with the cable into the open cable gland. The flat sides of the grommet must face upwards when fitting the KVT 63/4!



3. Squeeze the two halves of the cable gland together until they lock together with an audible "click".



4. Place the seal, which is also supplied, over the thread. Then fit the cable gland into the hole and, if necessary, secure it with a locknut.



Weidmüller Service

Weidmüller Service	Bespoke services: best advice, best solutions	V.2
	Overview of services	V.3
	Digital support: RailDesigner®, M-Print® PRO, Online catalogue	V.5

Best advice, best solutions

Services tailored to customers' needs

Service – at Weidmüller that means diversity. And it also means that you can take advantage of our comprehensive resources:

- Production of terminal rails and enclosures fitted with our modular terminals and other modules, and prewired
- Fitting of cable glands and the marking of terminals, conductors and enclosures according to your specification
- Competence in the processing of enclosure materials such as aluminium, plastics, sheet steel and stainless steel
- Flexibility in the product selection: besides Weidmüller products we can also integrate yours and even those of other manufacturers

This range of services enables Weidmüller to act as an external service provider to increase your capacities. And demanding standards guarantee a high level of quality every time.

The best advice for the best solutions

The start of a good partnership is always characterised by an intensive exchange of information to define the respective positions. Our contribution focuses on detailed advice with respect to:

- Optimum choice of products
- Practical pre-assembly
- Integration into your systems
- Consideration of requirements such as certification, classes of protection or hazard protection as required by your industry

That avoids mistakes right from the start – totally in keeping with the effective handling of the project, totally in keeping with perfect results. Our experience helps you create the foundation for good business and satisfied customers.



Overview of services



Production of terminal rails

Terminal rails are manufactured from steel, stainless steel, aluminium or copper to suit the diverse applications. And we can produce terminal rails with elongated or round holes, or in other forms to suit your requirements exactly. Terminal rails are fitted with modular terminals or electronic products, prewired and marked according to your specification.

The benefits for you

- No need to procure individual components
- No need to mount individual components
- No unnecessary stocks
- Just one order number for your pre-assembled terminal rail
- Constant high quality



Production of enclosures

High-tech brings benefits. Our state-of-the-art production methods open up new options for you:

- Inclusion of holes and threads in the enclosure
- Enclosure cover with hinges and other accessories if required
- More complex machining such as milling of contours or reaming of holes
- Special paint finishes: To protect against the effects of the weather, your enclosures can be painted individually. Simply specify the colour and printing you require. Special paint finishes and powder coating are also possible.

Enclosures are adapted to suit the intended application exactly. You get a tailored, individual product and the quality is guaranteed by our adherence to demanding standards.



The benefits for you

- Enclosures in various sizes and materials
- Inclusion of optional accessories such as hinges and locks
- Complex machining processes and special packaging

Cable ducts and individual accessories

In some electrical installations cable ducts can be used to improve clarity and operating safety. If required, we can integrate such cable ducts for individual switchgear such as contactors, automatic devices or control equipment. That guarantees better clarity.

The benefits for you

- Large range of different cable entries
- Enhanced flexibility thanks to the ordering of products ready to connect
- Space-, time- and cost-saving installation thanks to the Cabttite cable entry system

Overview of services



Heavy-duty connectors

To help ensure that your switchgear cabinets and installations are put into operation without delay, Weidmüller can supply prefabricated components such as heavy-duty connectors. These are assembled and prewired according to your specification and are supplied ready to connect. If required, we can also supply the finished enclosure with the heavy-duty connectors already integrated. The ConCept heavy-duty connector system from Weidmüller renders possible a whole series of applications. This modular system enables the flexible combination with different modules, crimping and cabling – all-inclusive if required.



The benefits for you

- Special requirements with respect to font, number of characters, material and printing durability for your markers
- Prewiring of connectors saves you valuable installation time
- Modular connector system can be ordered pre-crimped

Marking

Whether multi-line labelling, white or coloured terminal markers or group designations, the Weidmüller range can cater for every marking task – fast, clear and according to European standards. However, we can also supply you with preprinted markers to match your specification. Simply tell us the type of marker you require, the colour, the printing sequence and the text, and we'll look after the rest. If required, we can also install the finished markers during assembly.



Equipment labelling

Device markers are essential for marking your electrical installations. Therefore, Weidmüller can supply rating plates designed specially for your application. A wide range of different shapes, colours, materials and fixings – riveted, screwed or bonded with adhesive – are available from which to choose. And a whole range of different fonts mean that we can handle every request.

Integration of special accessories

In some cases it is necessary to integrate special accessories. This is no problem for Weidmüller because we can integrate buttons, switches, warning lamps, plugs or couplings – all properly planned, fitted, connected and tested. And that includes the products of other manufacturers as well as our own. We shall also be happy to advise you on standard accessories such as hinges.

The benefits for you

- Rating plates in various materials
- Individual printing or laser engraving
- Equipment and accessories to your specification

Digital support

RailDesigner®

RailDesigner® is a Weidmüller program for planning, assembling and ordering both terminal rails and enclosures. And it's so easy to use:

- Fast acquisition of all necessary data
- Realistic-looking graphic user interface and ideal conditions for simple assembly of your terminal rails and enclosures with all the necessary components
- Simply click on all the products you need and add accessories such as markers or cross-connectors
- To configure an individual enclosure, simply choose an enclosure type from a standard range and then add holes and other accessories to suit your requirements

These parameters form the foundation for a perfect software assistant. You can view the enclosure on the screen complete with all the configured products, and print out a hardcopy, or simply send the file to Weidmüller via e-mail in the form of an order. RailDesigner® provides you with optimum planning security and clarity during the design phase. And hence simplifies the ordering process enormously.

M-Print® PRO label designer

The comprehensive range of Weidmüller services includes the M-Print® PRO software.

This is a professional-standard, Windows®-based program for printing and ordering labels and markers that is coordinated with our current printing systems and marking materials.

M-Print® PRO enables you to design your labelling materials professionally and quickly. Texts, borders, lines, graphics, bar-codes, serial numbers and photographs are all possible. The interface to RailDesigner® or your CAE system enables the transfer of all your configured data.

Online catalogue

If you have questions about the specifications and details of our products, perhaps even outside normal business hours, then our online catalogue at <http://catalog.weidmueller.com> – open 24 hours a day, 365 days a year – is the perfect source of information. Besides product features and part numbers, it contains extensive additional information on all product groups. And for further information, offers and your personal contact, simply consult the Weidmüller website at www.weidmueller.com.



