

Heavy-duty connectors Catalogue 2017/2018

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RockStar® - connectivity



Weidmüller 

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- Internal page links
- Links to the online catalogue

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Further Weidmüller product catalogues can be accessed by clicking the following:



RockStar® – Heavy Duty Connectors

Catalogue 3

RockStar® – Heavy Duty Connectors

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RockStar® inserts

RockStar® ModuPlug modular system

RockStar® HighPower

RockStar® Housings IP65 / NEMA Type 12, 4X

RockStar® Housings IP68 / EMC

RockStar® Data Connectors

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Tools

Cable entries

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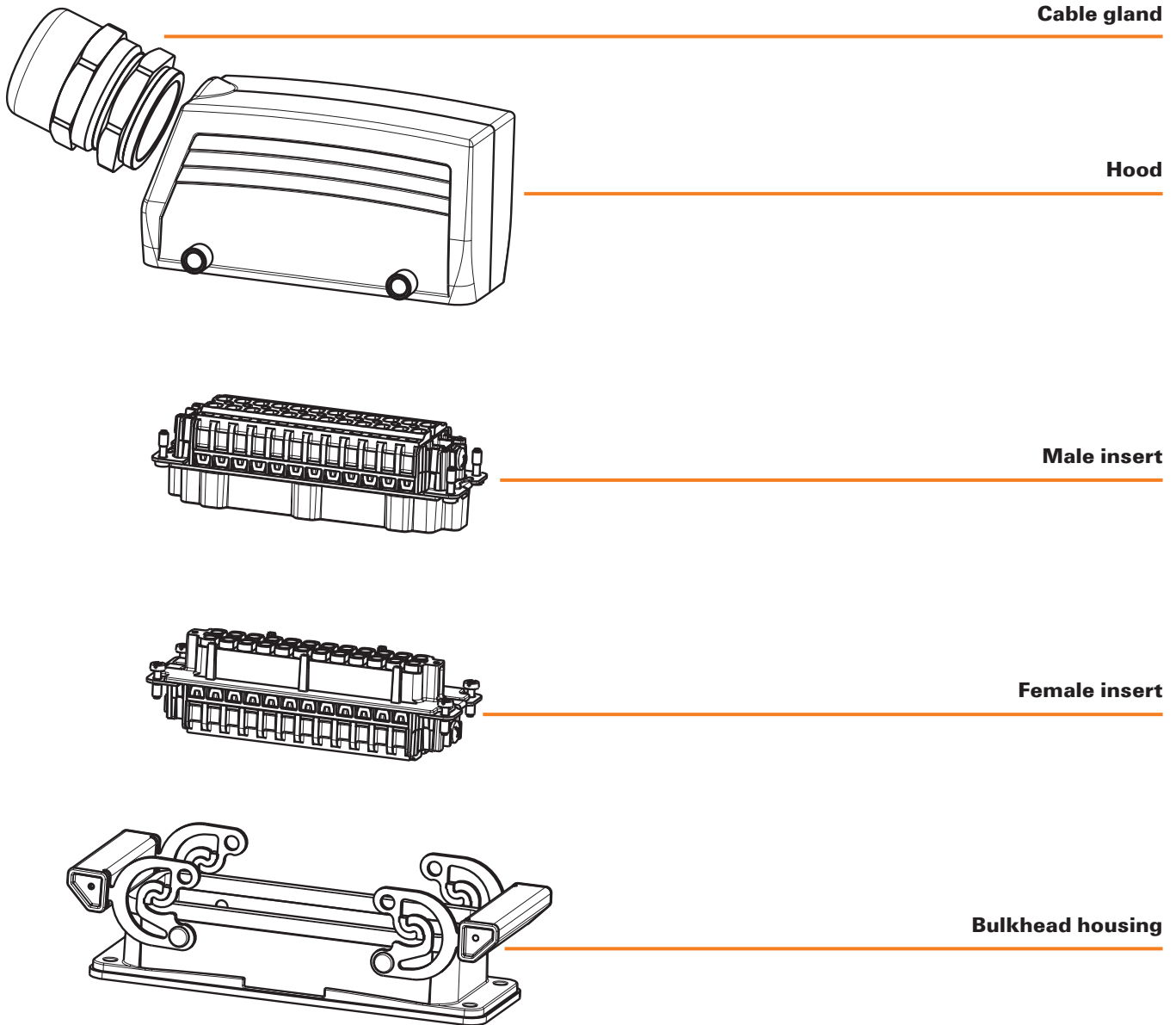
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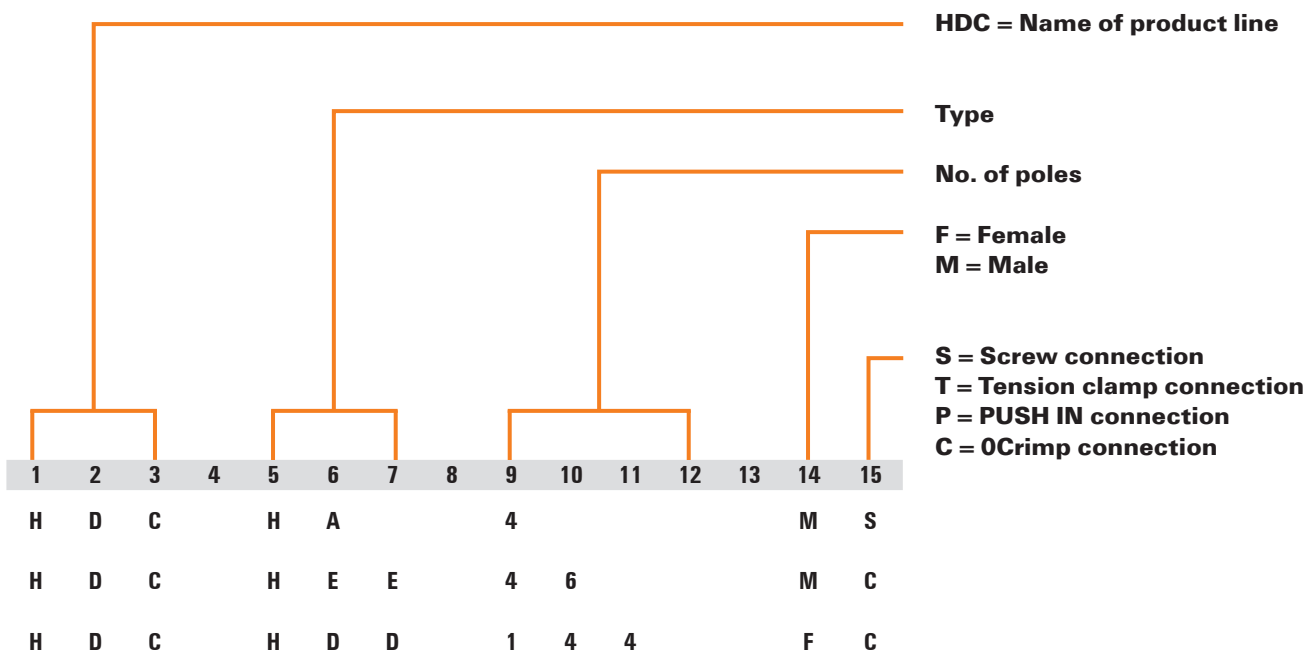
Overview

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Construction of heavy-duty connectors – fixed pole



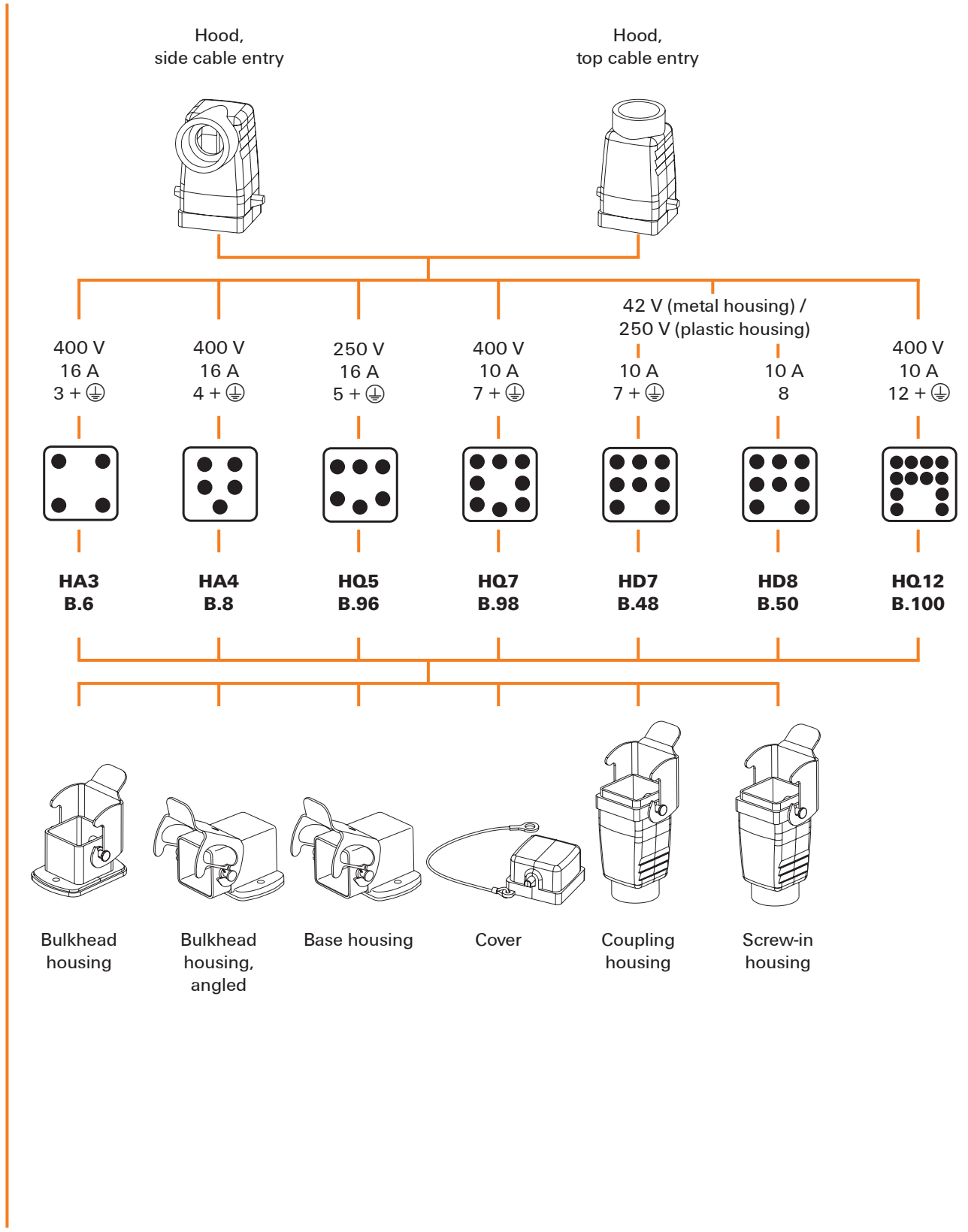
Part codes for inserts



Overview of size 1 – fixed pole

Size

1



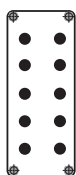
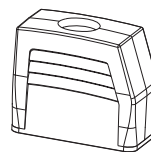
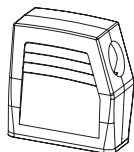
Overview of sizes 2, 5, 7, 9 – fixed pole

Size

Hood, side cable entry

Hood, top cable entry

2



250 V
16 A
10 + ⊕

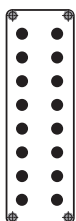
HA10
B.10



250 V
10 A
15 + ⊕

HD15
B.52

5



250 V
16 A
16 + ⊕

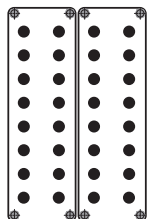
HA16
B.12



250 V
10 A
25 + ⊕

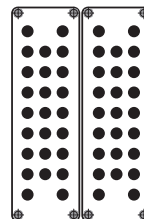
HD25
B.54

7



250 V
16 A
32 + ⊕

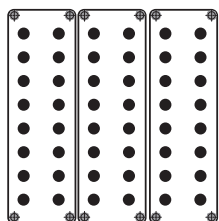
HA32
B.14



250 V
10 A
50 + ⊕

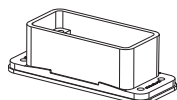
HD50
B.58

9

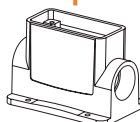


250 V
16 A
48 + ⊕

HA48
B.16



Bulkhead housing



Base housing



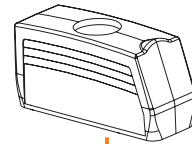
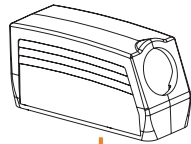
Coupling housing

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

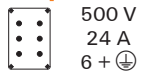
Size

Hood, side cable entry

Hood, top cable entry



3



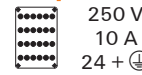
500 V
24 A
6 + ⊕

HE6
B.20



500 V
16 A
10 + ⊕

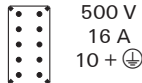
HEE10
B.34



250 V
10 A
24 + ⊕

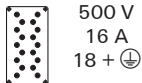
HDD24
B.68

4



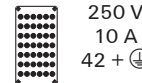
500 V
16 A
10 + ⊕

HE10
B.22



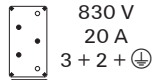
500 V
16 A
18 + ⊕

HEE18
B.36



250 V
10 A
42 + ⊕

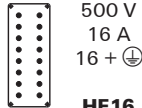
HDD42
B.70



830 V
20 A
3 + 2 + ⊕

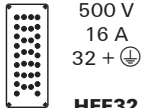
HVE3
B.82

6



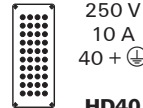
500 V
16 A
16 + ⊕

HE16
B.24



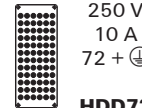
500 V
16 A
32 + ⊕

HEE32
B.38



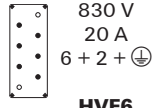
250 V
10 A
40 + ⊕

HD40
B.56



250 V
10 A
72 + ⊕

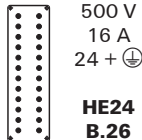
HDD72
B.72



830 V
20 A
6 + 2 + ⊕

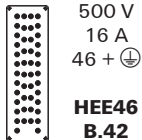
HVE6
B.84

8



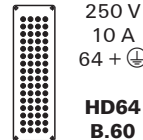
500 V
16 A
24 + ⊕

HE24
B.26



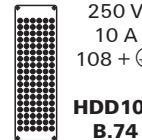
500 V
16 A
46 + ⊕

HEE46
B.42



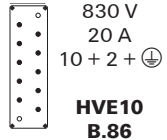
250 V
10 A
64 + ⊕

HD64
B.60



250 V
10 A
108 + ⊕

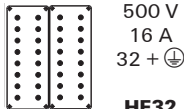
HDD108
B.74



830 V
20 A
10 + 2 + ⊕

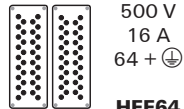
HVE10
B.86

10



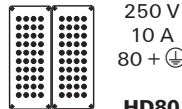
500 V
16 A
32 + ⊕

HE32
B.28



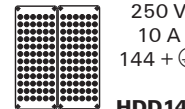
500 V
16 A
64 + ⊕

HEE64
B.44



250 V
10 A
80 + ⊕

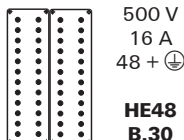
HD80
B.62



250 V
10 A
144 + ⊕

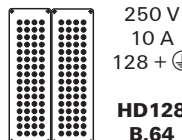
HDD144
B.76

12



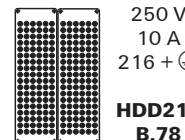
500 V
16 A
48 + ⊕

HE48
B.30



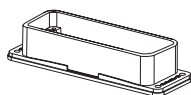
250 V
10 A
128 + ⊕

HD128
B.64

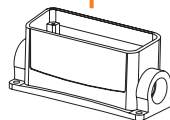


250 V
10 A
216 + ⊕

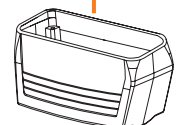
HDD216
B.78



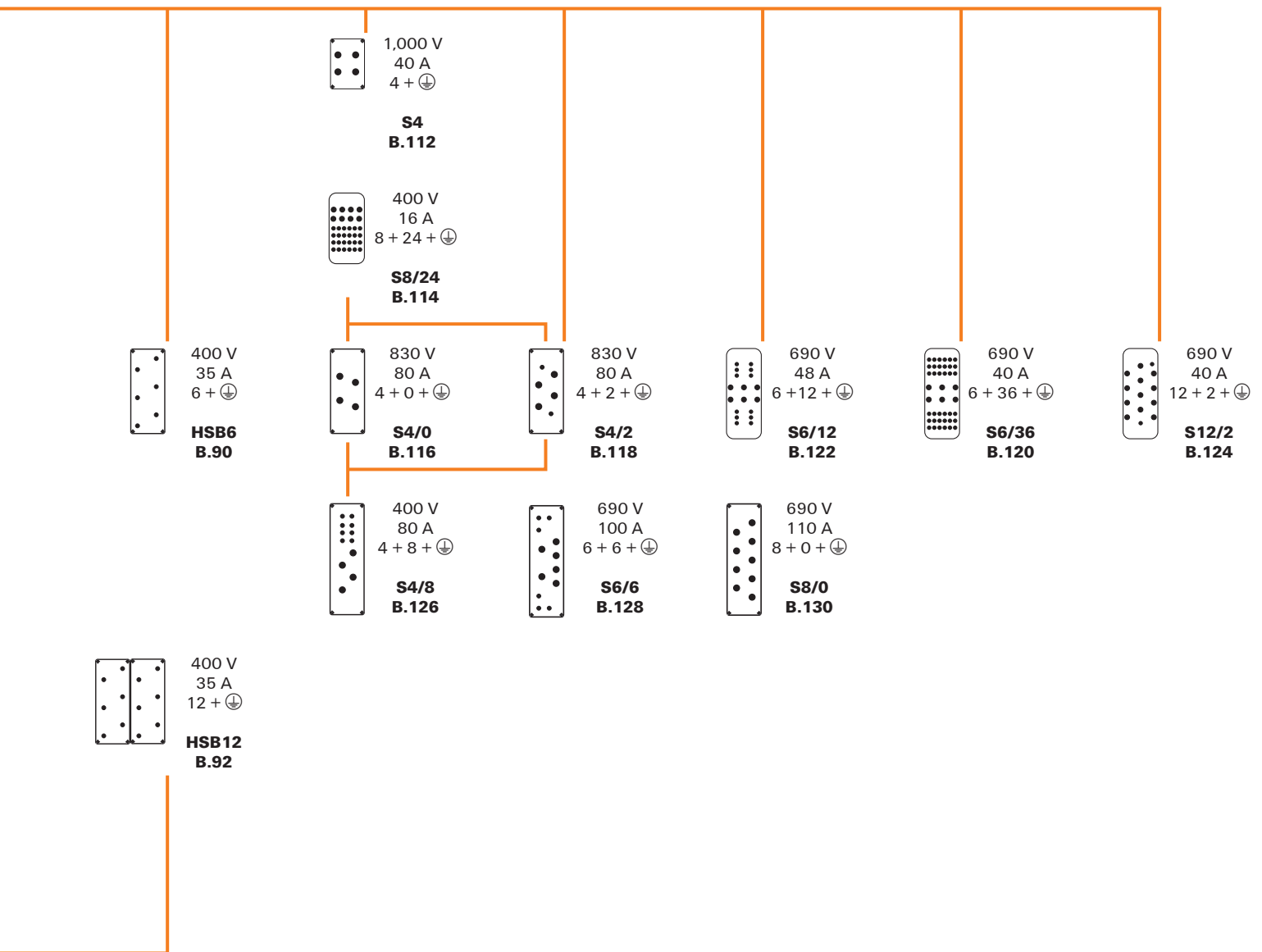
Bulkhead housing



Base housing



Coupling housing



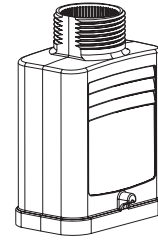
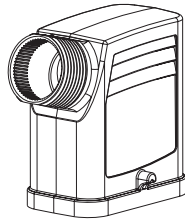
Overview of size HQ – fixed-pole

Size

HQ

Hood, side cable entry

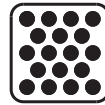
Hood, top cable entry



500 V
16 A
8 + ⊕

250 V
10 A
17 + ⊕

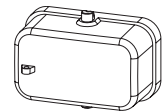
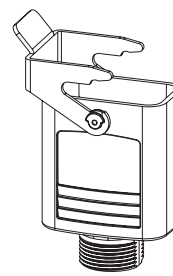
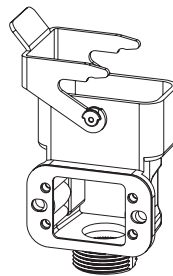
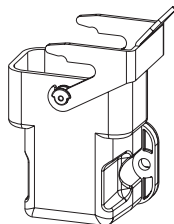
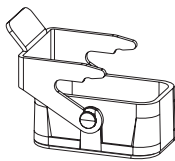
690 V / 250 V
10 A / 40 A
4 + 2 + ⊕



HQ8
B.102

HQ17
B.104

HQ4/2
B.106



Bulkhead housing

Bulkhead housing, angled

Base housing

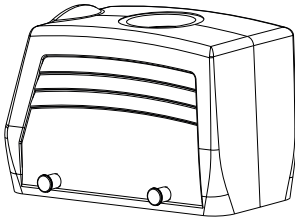
Coupling housing

Cover

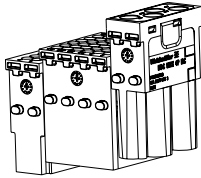
Construction of heavy-duty connectors – modular



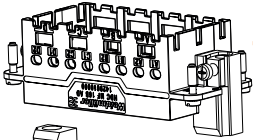
Cable gland



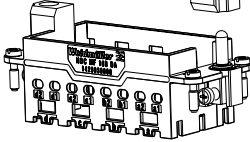
Hood



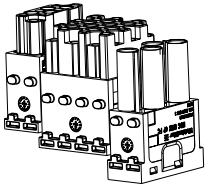
Male Modular Insert



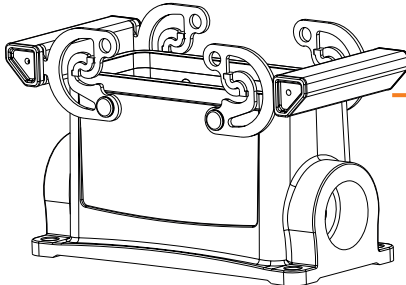
Male frame



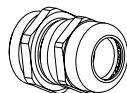
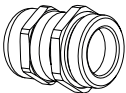
Female frame



Female Modular Insert



Base housing



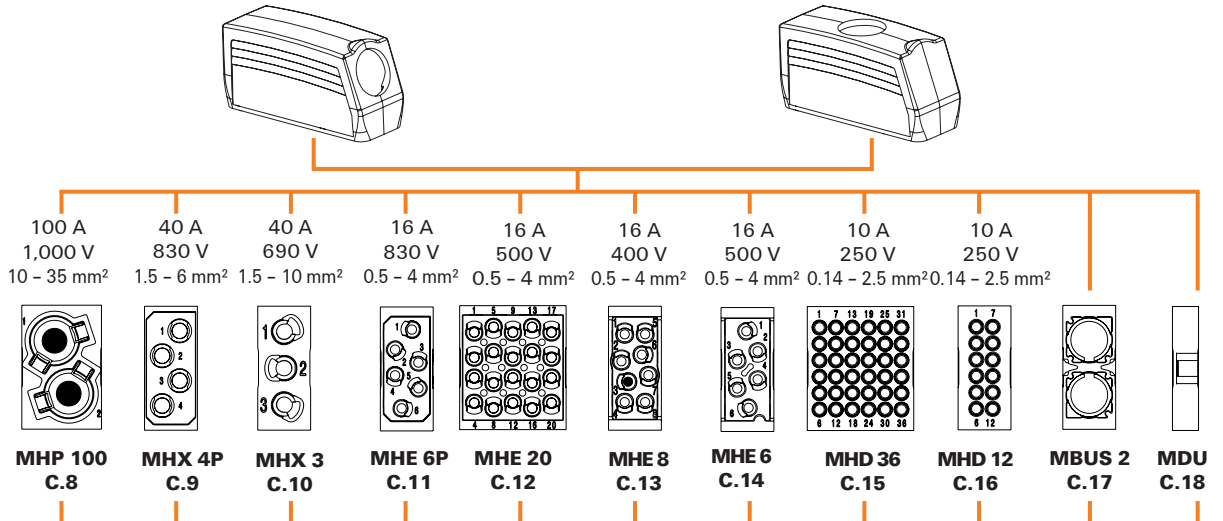
Cable glands

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

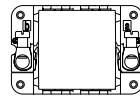
Size

Hood, side cable entry

Hood, top cable entry



3



MF 6B for 2 modules
C.6

4



MF 10B for 3 modules
C.6

6



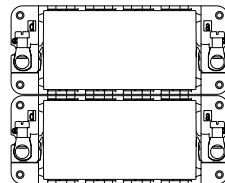
MF 16B for 4 modules
C.7

8



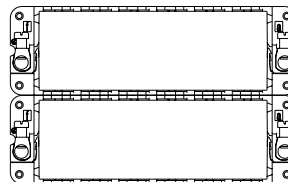
MF 24B for 6 modules
C.7

10

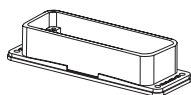


2 x MF 16B for 8 modules
C.7

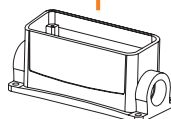
12



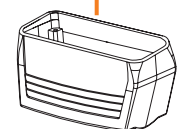
2 x MF 24B for 12 modules
C.7



Bulkhead housing



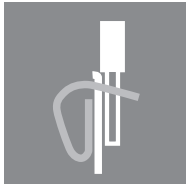
Base housing



Coupling housing

Connection systems

Tension clamp, screw, crimp, axial screw, PUSH IN and TOP wire connections



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

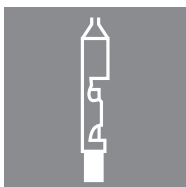
acid-proof steel, pulls the conductor against the tin-plated copper current bar. Treating the copper in this way ensures low contact resistance and high corrosion resistance. The compensating effect of the tension spring ensures a secure contact for the lifetime of the terminal. The tension-clamp wire connections are resistant to vibrations and have a high wire pull-out force.



Screw connection

Screw connection systems are easy to handle and are known worldwide; this is an important point to consider for mounting and maintenance tasks which are spread throughout the world. Screw connections which are based

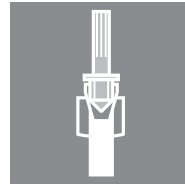
on a clamping-type body offer a gas-tight, vibration-proof connection for connected wires. They also feature excellent contact force. This system is therefore perfectly suited for use in corrosive environments. The passivated silver surfaces ensure even more resistance against corrosion. The Weidmüller clamping-style body is perfectly suited for connecting solid-core and flexible stranded conductors. A wire-protection frame ensures that finely-stranded wires will not splice off.



Crimp connection

In the **crimping method**, the wires are fed into a metal sleeve, which is then squeezed together with a special tool. This means the connection is now corrosion and vibration proof.

The contacts can be crimped on the conductor outside of the connector and then inserted into the connector.



Axial screw connection

The advantage of the **axial screw connection** is the small space taken up by the contact. 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 connection technology

With the **PUSH IN connection system**, the stripped solid-core conductor is simply inserted into the terminal point until it butts against the end stop. And then it is ready. 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-plated 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.










TOP connection technology

The Weidmüller **TOP connection system** ensures that the conductor can be inserted and the clamping screw tightened from the same direction. Such an arrangement eases the wiring work in certain installations, e.g. when there is little space at

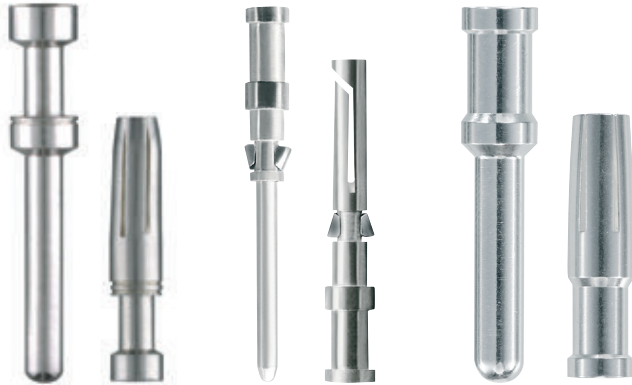
the sides in terminal boxes. The TOP connection system combines the specific properties of steel and copper. The hardened steel lever presses the conductor directly against a current bar made of copper or high-quality brass. The high contact force guarantees a gas-tight connection between conductor and current bar.

An overview of the wire connection types for the fixed-pole connector inserts from Weidmüller

Products	Tension clamp connection	PUSH IN connection	Axial screw connection	Screw connection	Screw connection with wire protection mechanism	TOP-1.5k connection	Crimp connection
							
HDC HA (3 to 4-pole)				✓		✓	
HDC HA (10 to 48-pole)	✓				✓		✓
HDC HE	✓	✓			✓		✓
HDC HEE							✓
HDC HEEE							✓
HDC HD							✓
HDC HDD							✓
HDC HVE	✓				✓		
HDC HSB					✓		
HDC HQ							✓
HDC S4			✓				
HDC S4/0			✓	✓			
HDC S4/2				✓			
HDC S6/12			✓			✓	
HDC S4/8				✓			
HDC S3/36							✓
HDC S8/24							✓
HDC S12/2							✓
HDC S6/6			✓			✓	
HDC S8/0			✓				
HDC HighPower 250 A							✓
HDC HighPower 550 A							✓

Crimp contacts

Whereas the contacts for screw, axial screw, tension clamp and PUSH IN connections are already built in, you can choose the appropriate contact for a crimp connection.



The heart of a connector is its contacts. They make up the actual connection between two conductors. Two types of contacts make this possible: 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.

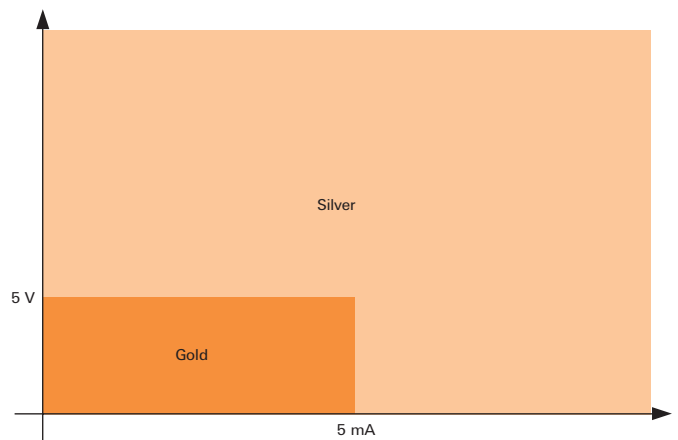
Crimp contacts are available in turned, solid form.

Selection of silver or gold-plated contacts




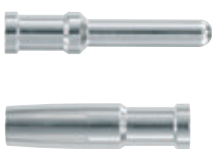


When using plug-in connectors under standard conditions, the resistance between the contacts has little effect. Even heavily corroded silver-coated contact pins and sockets do not exhibit any contact problems.

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.



Overview of crimp contacts

	Article	Properties	Usage
	HD-, HDD contacts	Rated current: 10 A Cross-section: 0.14 - 2.50 mm ² AWG: 26 - 14 Surface finish: gold-plated, silver-plated	HD Series HDD Series
	HE-, HEE contacts	Rated current: 16 A Cross-section: 0.5 - 4.00 mm ² AWG: 20 - 12 Surface finish: gold-plated, silver-plated	HA Series HE Series HEE Series HQ Series MixMate Series
	MHP contacts	Rated current: 100 A Cross-section: 10 - 35 mm ² AWG: 8 - 2 Surface finish: silver-plated	MHP100
	HX-contacts	Rated current: 40 A Cross-section: 1.5 - 6.00 mm ² AWG: 16 - 10 Surface finish: silver-plated	HQ Series MixMate Series
	CM-3 contacts	Rated current: 57 A Cross-section: 1.5 - 10.00 mm ² AWG: 16 - 7 Surface finish: silver-plated	HighPower signal contacts
	HP contacts	Rated current: 250 A / 550 A Cross-section: 25 - 240 mm ² Surface finish: silver-plated	HighPower Series

Using wire-end ferrules

Type of connection	Series	HA	HE	HVE	HSB	
Screw	Clamping range [mm ²]	0.5 - 2.5	0.5 - 2.5	0.5 - 2.5	-	
	Clamping range [AWG]	20 - 12	20 - 14 (12) ¹⁾	20 - 14 (12) ¹⁾	-	
	Ferrules with collars	H0.5/14 - H2.5/14	H0.5/14 - H2.5/14 ²⁾	H0.5/14 - H2.5/14 ²⁾	H0.5/14 - H2.5/14 ²⁾	-
		H0.5/16 - H2.5/16	H0.5/16 - H2.5/16 ²⁾	H0.5/16 - H2.5/16 ²⁾	H0.5/16 - H2.5/16 ²⁾	-
	Ferrules without collars	H0.5/10 - H2.5/10	H0.5/10 - H2.5/10	H0.5/10 - H2.5/10	-	
	Twin wire-end ferrules with collars	H0.5/16.5 (ZH)	H0.5/18.5 (ZH)	-	H0.5/15 (ZH)	
		H0.5/18.5 (ZH)	H1.0/20 (ZH) ³⁾	-	H0.5/16.5 (ZH)	
		H0.75/17 (ZH)	H1.5/20 (ZH) ³⁾	-	H0.5/18.5 (ZH)	
		H1.0/20 (ZH)	-	-	H0.75/15 (ZH)	
		H1.5/20 (ZH)	-	-	H1.0/15 (ZH)	
Tension clamp	Crimping tool	PZ4 ²⁾ , PZ6, PZ6/5	PZ4 ²⁾ , PZ6, PZ6/5 PZ6 Hex ²⁾	PZ4 ²⁾ , PZ6, PZ6/5 PZ6 Hex ²⁾	-	
	Screwdriver	SDK PH0 SD 0.5x 3.0	SDK PH0 SD 0.5x 3.0	SDK PH0 SD 0.5x 3.0	-	
	Tightening torque	0.5 Nm	0.5 Nm	0.5 Nm	-	
	Clamping range [mm ²]	0.25 - 1.5	0.25 - 2.5	0.25 - 2.5	-	
		2.5 solid core	-	-	-	
	Clamping range [AWG]	24 - 14 ⁴⁾	24 - 14	24 - 14	-	
	Ferrules with collars	H0.5/14 - H1.5/14 ⁴⁾	H0.5/14 - H2.5/14 ²⁾	H0.5/14 - H2.5/14 ²⁾	-	
		H0.5/16 - H1.5/16 ⁴⁾	-	-	-	
	Ferrules without collars	H0.5/10 - H1.5/10 ⁴⁾	-	-	-	
	Twin wire-end ferrules with collars	-	H0.5/15 (ZH) ⁵⁾ or ⁶⁾	-	-	
-		H0.75/15 (ZH) ⁵⁾ or ⁶⁾	-	-		
-		H1.0/15 (ZH) ⁵⁾ or ⁶⁾	-	-		
-		H1.5/16 (ZH) ⁵⁾ or ⁶⁾	-	-		
Crimping tool	PZ4, PZ6, PZ6/5	PZ4 ⁷⁾ , PZ6, PZ6/5	PZ4 ⁷⁾ , PZ6, PZ6/5	-		
Screwdriver	SD 0.5x 3.0	SD 0.6x 3.5	SD 0.6x 3.5	-		
PUSH IN	Clamping range [mm ²]	-	solid 0.5 - 4 mm ² flexible with ferrule 0.5 - 2.5 mm ²	-	-	
	Clamping range [mm ²]	-	20 - 12	-	-	
	Ferrules with collars	-	H0.5/14 - H1.5/14	-	-	
		-	H0.5/16 - H1.5/16	-	-	
		-	H0.75/18 - H2.5/18 ²⁾	-	-	
	Ferrules without collars	-	H0.5/10 - H2.5/10 ²⁾	-	-	
		-	H1.5/12 - H2.5/12 ²⁾	-	-	
	Twin wire-end ferrules with collars	-	H0.5/18.4 ZH	500 V / 6 kV / 3	-	
		-	H1/20 ZH	400 V / 6 kV / 3	-	
		-	H1.5/20 ZH	400 V / 6 kV / 3	-	
-		-	500 V / 6 kV / 3 only with protection degree of at least IP54	-		
Ferrules crimped with	-	PZ4, PZ6, PZ6/5, PZ6 Hex	-	-		
PE contact	Clamping range [mm ²]	0.5 - 4.0 0.5 - 2.5 flexible	0.5 - 4	0.5 - 4	-	
	Clamping range [AWG]	20 - 12	20 - 12	20 - 12	-	
	Ferrules with collars	H0.5/16 - H2.5/16	H0.5/16 - H4/16	H0.5/16 - H4/16	-	
	Ferrules without collars	H0.5/10 - H2.5/10	H0.5/10 - H4/10	H0.5/10 - H4/10	-	
	Ferrules crimped with	PZ4 ²⁾ , PZ6, PZ6/5	PZ4, PZ6, PZ6/5, PZ6 Hex	PZ4, PZ6, PZ6/5, PZ6 Hex	-	
	Screwdriver	PH 1	PH 1	PH 1	-	
	Tightening torque	1.2 Nm	1.2 Nm	1.2 Nm	-	

¹⁾ Depending on the diameter of the insulation, the max. AWG wire may need to be pushed in with some force.

²⁾ The 2.5mm² wire must be inserted with some force.

³⁾ When the rated voltage is reduced to 400 V / 6 kV / 3 or with a protection degree of at least IP54.

⁴⁾ Only by tilting the screwdriver can the clamping point be opened all the way.

⁵⁾ Wire-end ferrules may be used when the rated voltage is reduced to 400 V / 6 kV / 3.

⁶⁾ When the protection degree is at least IP54, the creepage and clearance distances within the encapsulation may be rated for a lower pollution degree (DIN EN 61984). For this encapsulation, the use of wire-end ferrules is possible with 500 V / 6 kV / 3.

⁷⁾ The PZ4 crimping tool should not be used with the max. wire size.

The connector inserts can be combined with wire-end ferrules in other ways depending on the available clamping range and the type of cable being used. We would be happy to take a look at the technical feasibility of your specific application.

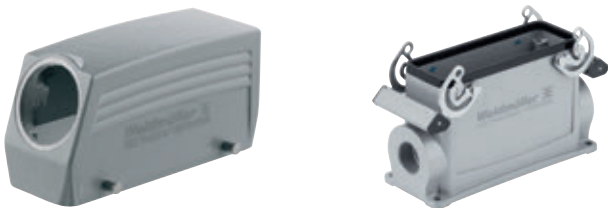
Tightening torques and screwing tools

Screw size	Connector type	Dia. tightening torque in Nm	Recommended blade inserts and AF size for hexagon socket
M2.5	Signal contacts		
	S 6/6	0.5 - 0.55	SD 0.6 x 3.5 mm or PZO
	S 6/12	0.5 - 0.55	SD 0.6 x 3.5 mm or PZO
M2.9 x 0.5	Fastening screws		
	HQ 4/2	0.8 (plastic) / 1.1 (metal)	SD 0.6 x 3.5 mm or PH0
	HQ 8	0.8 (plastic) / 1.1 (metal)	SD 0.6 x 3.5 mm or PH0
	HQ 17	0.8 (plastic) / 1.1 (metal)	SD 0.6 x 3.5 mm or PH0
M3	Contact screws		
	HA 3	0.5 - 0.55	SD 0.5 x 3.0 mm
	HA 4	0.5 - 0.55	SD 0.5 x 3.0 mm
	HA 10 to HA 48	0.5 - 0.55	SD 0.6 x 3.5 mm or PH0
	HE	0.5 - 0.55	SD 0.6 x 3.5 mm or PZO
	HVE	0.5 - 0.55	SD 0.6 x 3.5 mm or PZO
	Signal contacts:		
	S 4/2	0.5 - 0.55	SD 0.6 x 3.5 mm or PZO
	S 4/8	0.5 - 0.55	SD 0.6 x 3.5 mm or PZO
	PE connection via female contact		
	S 4	0.5 - 0.8	SD 0.6 x 3.5 mm
	ConCept modular frame, metal	0.5 - 0.55	SD 0.6 x 3.5 mm
	PE terminal		
	HQ 5	0.5 - 0.55	SD 0.6 x 3.5 or 0.8 x 4 mm
	HQ 7	0.5 - 0.55	SD 0.6 x 3.5 or 0.8 x 4 mm
	Fastening screws	0.5 - 0.55	SD 0.6 x 3.5 mm or PZO
	Guide pin	0.5 - 0.55	SD 0.6 x 3.5 mm or PZO
	Guide bush	0.5 - 0.55	SD 0.6 x 3.5 mm or PZO
	Coding pins	0.5 - 0.55	SD 0.6 x 3.5 mm or PZO
	M4	Contact screws	
HSB		1.2 - 1.5	SD 0.6 x 3.5 or 0.8 x 4 mm or PZ1
PE connection via male contact			
S 4		0.5 - 0.8	SD 0.6 x 3.5 mm
ConCept modular frame, metal		1.2 - 1.5	SD 0.6 x 3.5 mm
PE terminal			
HA		1.2 - 1.5	SD 0.6 x 3.5 or 0.8 x 4 mm or PH1
HE		1.2 - 1.5	SD 0.6 x 3.5 or 0.8 x 4 mm or PH1
HEE		1.2 - 1.5	SD 0.6 x 3.5 or 0.8 x 4 mm or PH1
HVE		1.2 - 1.5	SD 0.6 x 3.5 or 0.8 x 4 mm or PH1
HD		1.2 - 1.5	SD 0.6 x 3.5 or 0.8 x 4 mm or PZ1
HDD		1.2 - 1.5	SD 0.6 x 3.5 or 0.8 x 4 mm or PZ1
S 6/6 (for signal contacts)		1.2 - 1.5	0.8 x 4 mm or PZ1
ConCept modular frame, plastic	1.2 - 1.5	0.8 x 4 mm or PZ1	
M5	PE terminal		
	HSB	2 - 2.5	SD 1 x 5.5 mm or PZZ
	S 4/0 (Screw connection)	2 - 2.5	SD 1.2 x 6.5 mm or PH2
	S 4/0 (Axial screw connection)	2 - 2.5	SD 0.8 x 4 mm or PZZ
	S 4/2	2 - 2.5	SD 1.2 x 6.5 mm or PH2
	S 4/8	2 - 2.5	SD 1.2 x 6.5 mm or PH2
	S 6/12	2 - 2.5	SD 0.8 x 4 mm or PZZ
	S 6/36	2 - 2.5	SD 1.2 x 6.5 mm or PH2
	S 8/24	2 - 2.5	SD 1.2 x 6.5 mm or PH2
	S 12/2	2 - 2.5	SD 1.2 x 6.5 mm or PH2
M6	Power contacts		
	S 4/0 (Screw connection)	1.2 (1.5 mm ²) / 2 (2.5 mm ²) / 3 (4 - 16 mm ²)	SD 0.8 x 4 mm
	S 4/2	1.2 (1.5 mm ²) / 2 (2.5 mm ²) / 3 (4 - 16 mm ²)	SD 0.8 x 4 mm
	S 4/8	1.2 (1.5 mm ²) / 2 (2.5 mm ²) / 3 (4 - 16 mm ²)	SD 0.8 x 4 mm
M7 x 0.75	Power contacts		
	S 4	1.1 - 1.7	SW 2
	S 6/6 (+ PE)	6 - 8	SW 4
M8 x 0.75	Power contacts		
	S 6/12	1.1 - 1.7	SW 2
	S 8/0 (+ PE)	6 (10 - 16 mm ²) / 7 (25 mm ²)	SW 4
M10 x 1	Power contacts		
S 4/0 (Axial connection)	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.

RockStar® – Housing types

Housing IP65 / NEMA Type 4X



The housing and the interlock mechanism on a connector protect the contacts from exterior mechanical influences (ie. shock, contamination, dust, accidental touching, moisture penetration, water and liquids such as cleaning solvents, coolants and oils). The durable RockStar® housings are produced with the highest quality standards; they provide IP65 protection and are resistant to corrosion and impacts. All housings come standard with a stainless steel interlock. A special die-cast alloy and the multi-level surface finish combine to deliver the ultimate protection against extreme conditions and ensure that the housings keep their visual appeal.

Applications

- General mechanical engineering
- Materials handling and factory construction
- Packaging machines
- Transport and traffic engineering
- Energy technology
- Lighting and stage equipment
- Process engineering
- etc.

Features

- Tightness at least IP65 to IEC 60529
- Tightness NEMA Type 12, 4X
- Scratch-resistant, corrosion-proof, long-lasting

Design

- Cast aluminium alloy
- Multistage surface coating
- Colour: grey, similar to RAL 9006
- 2 versions, standard and high
- 11 sizes

Interlock system

- Clamp lock in different versions
- rustproof stainless steel

HQ Series Housings, IP65 / NEMA Type 4X



The HQ connector series has a very compact housing with IP65 protection. It is available in either plastic or metal. The full industrial capability of these products makes them a perfect match for the main usage in materials handling applications. The HQ housing series is particularly important for connecting motor starters and frequency converters. It is also the ideal extension for setting up a decentralised power distribution system based on FieldPower®.

Applications

- General machine construction
- Materials handling and factory construction
- Decentralised automation
- etc.

Features

- Tightness: at least IP65, acc. to IEC 60529
- Tightness: NEMA Type 12, 4X
- Complies with VDE and ISO 23570 (DESINA)
- Scratch-proof, corrosion resistant and durable

Design

- Plastic housing: polycarbonate, glass-fibre reinforced; Colour: grey, similar to RAL 7032
- Metal housing: die-cast zinc, nickel-plated, multi-level surface coating, EMC properties
- Cable outlet is straight or angled

Interlock system

- Clamp interlock made from rust-free stainless steel

Housing IP68



The IP68 housings have been developed for use under extreme environmental conditions. The high degree of protection (IP68 and IP69K) and the excellent resistance to vibration and shock guarantee fail-safe operation when heavy-duty connectors are used in 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
- Energy technology
- Applications with extreme protection class requirements

Features:

- Tightness IP68 / 5 bar to IEC 60529
- IP69K impermeability according to DIN 40050-9
- Scratch-proof, corrosion resistant, impact resistant and durable

Design:

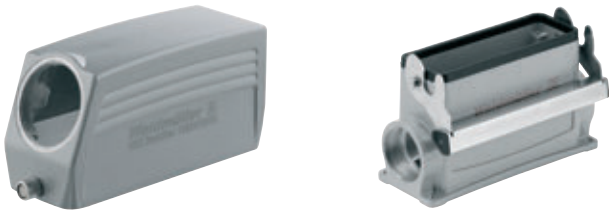
- Cast aluminium alloy
- Multistage surface coating
- Optimised construction for high impact resistance and EMC
- Colour: black RAL 9005
- 5 sizes; size 8 also in XXL

Interlock system

- Screw cap with internal/external hex drive

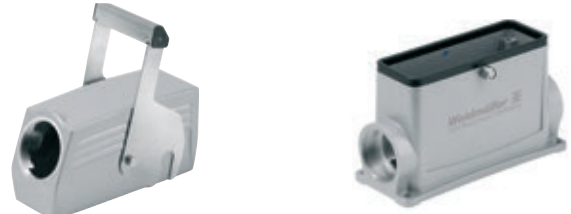
Locking systems

One longitudinal locking clamp on housing bottom



- Manual operation – no tools required
- 2 locking points – along the longitudinal axis
- Good for lengthwise alignment
- Interlock system made from rust-free 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
- Made from rust-free stainless steel

Two transverse locking clamps on housing bottom



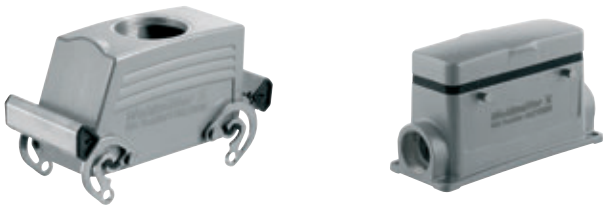
- Manual operation – no tools required
- 4 locking points – good sealing effect
- Easily accessible when the cable inlet is in the plugging direction
- Good for aligning side by side
- Made from rust-free stainless steel

Screw fastening



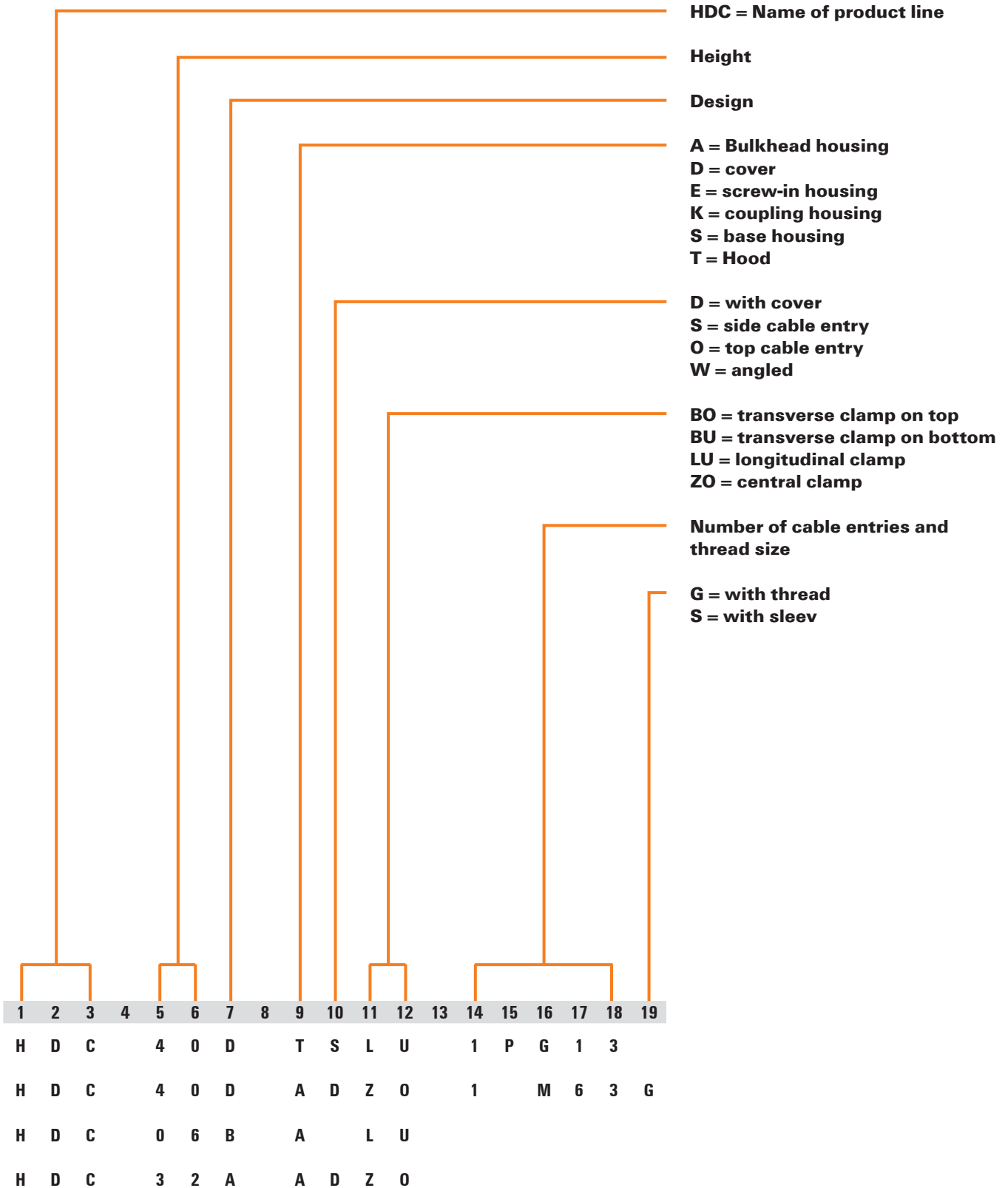
- Uses internal/external hex drive
- Most effective seal
- The two interlock points are arranged diagonally
- Easily accessible when space is tight
- Screws made from rust-free stainless steel

Two transverse locking clamps on housing top

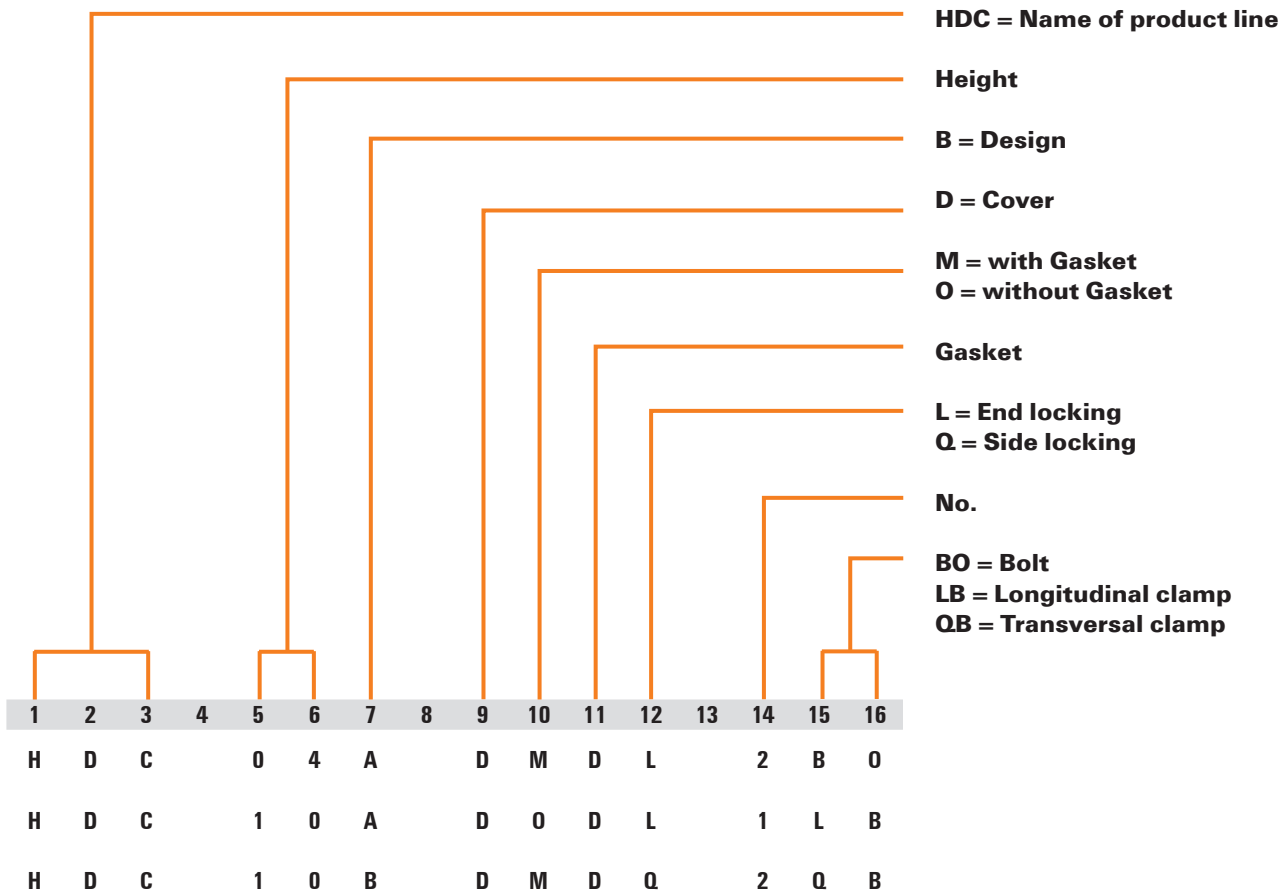


- Manual operation – no tools required
- 4 locking points – good sealing effect
- Easily accessible when the cable inlet is in the plugging direction
- Good for aligning side by side
- Interlock system made from rust-free stainless steel

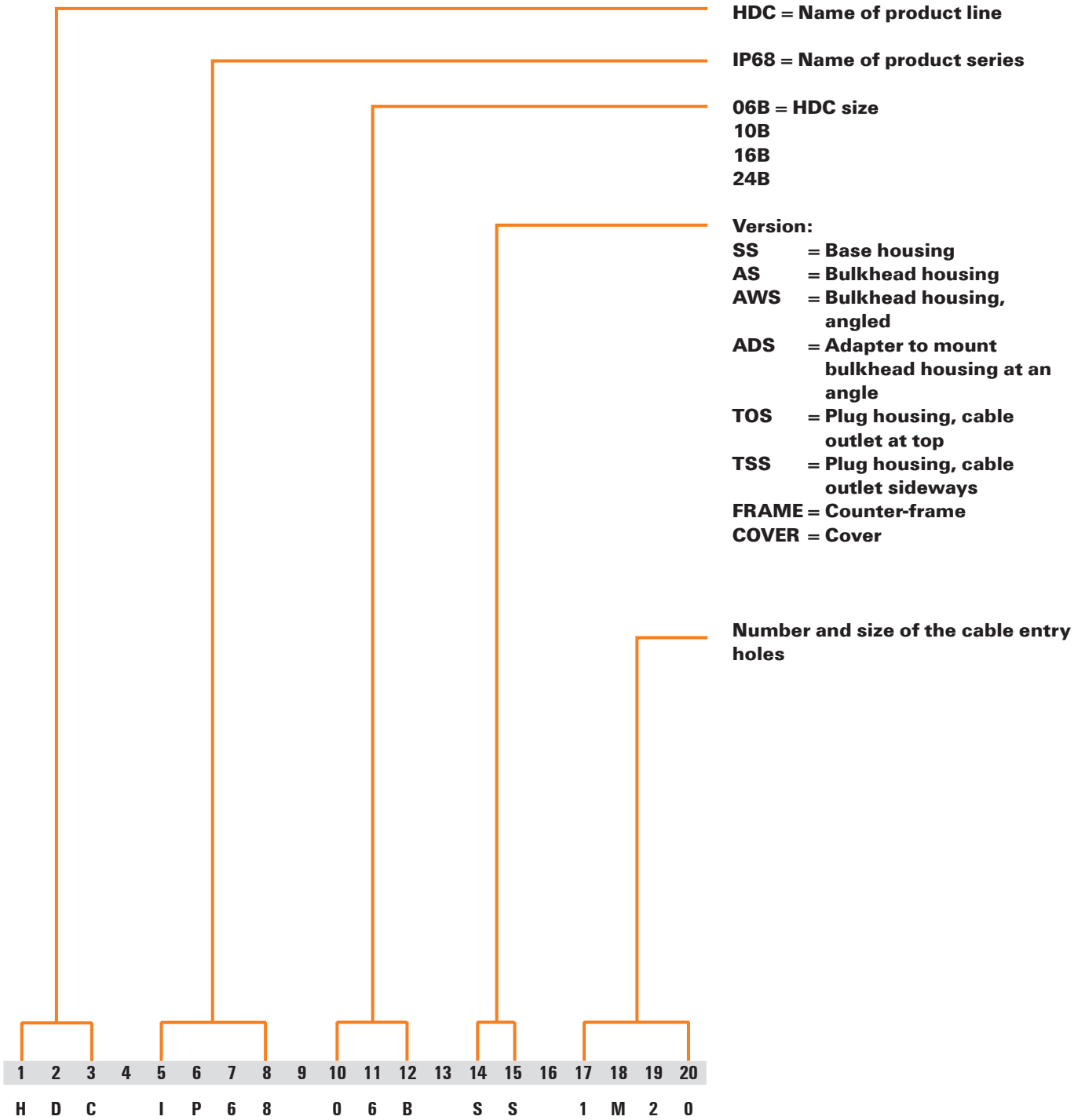
Part codes for housings IP65



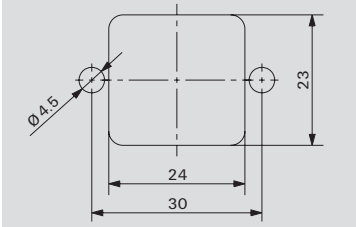
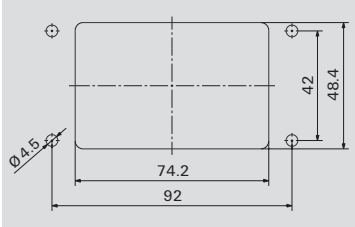
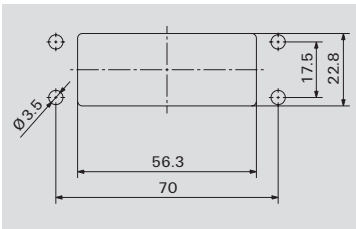
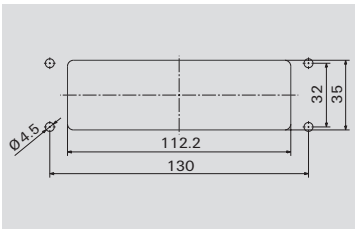
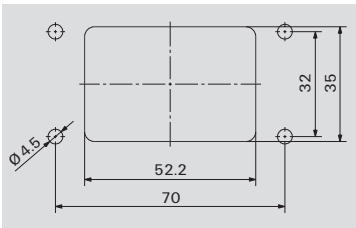
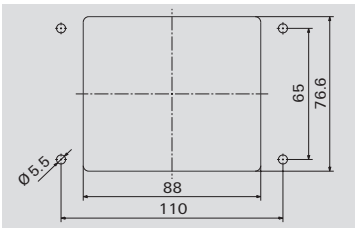
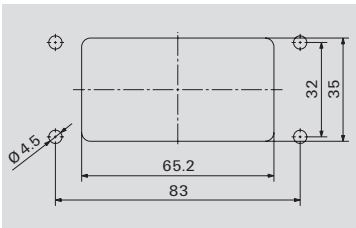
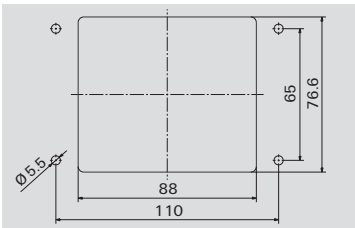
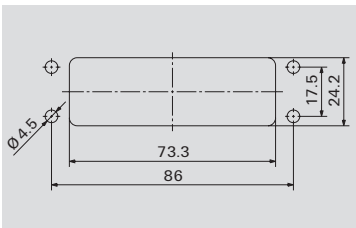
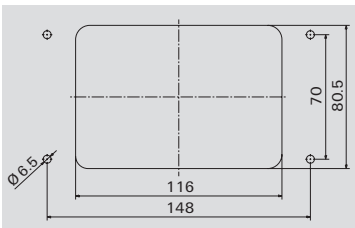
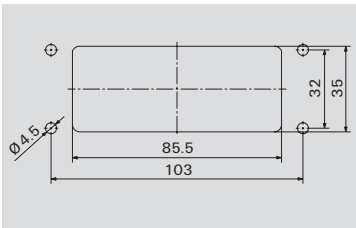
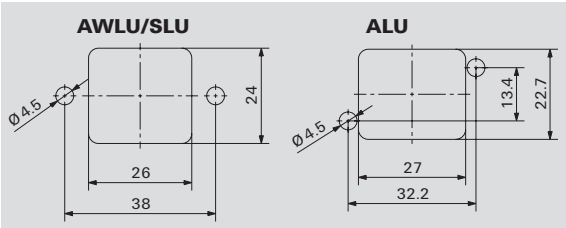
Part codes for covers



Part codes for housings IP68

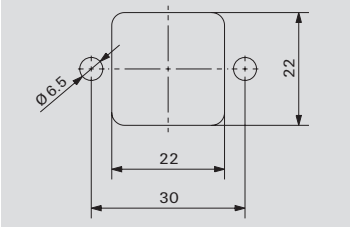
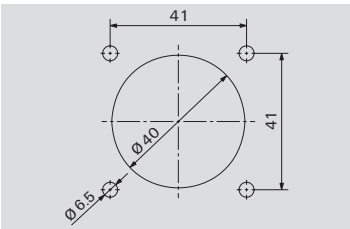
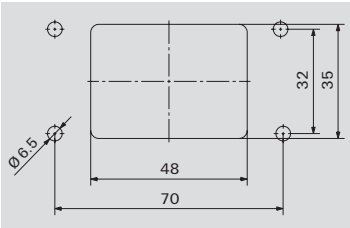
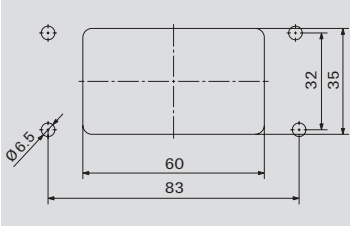
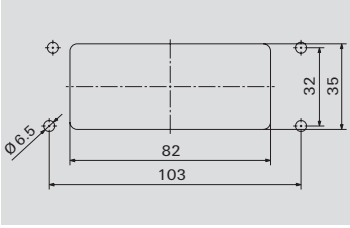
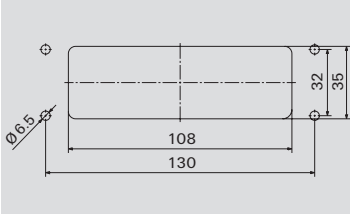


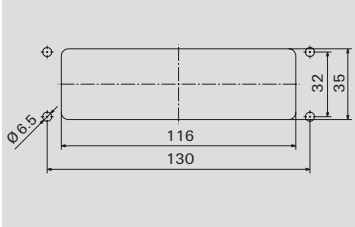
Panel cut-out Housings IP65

Size	Designation		Size	Designation	
BG1	04A/07A		BG7	32A	
BG2	10A		BG8	24B	
BG3	06B		BG9	48A	
BG4	10B		BG10	32B	
BG5	16A		BG12	48B	
BG6	16B		HQ	AWLU/SLU ALU	

Panel cut-out Housings IP68

XXL Housings in IP68

Size	Designation	
BG1	04A	
BG1	04A AWS	
BG3	06B	
BG4	10B	
BG6	16B	
BG8 BG8	24B HP 24B	

Size	Designation	
BG8	HB24	

Electrical data

Design of clearances and creepage distances in electrical equipment

General

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.

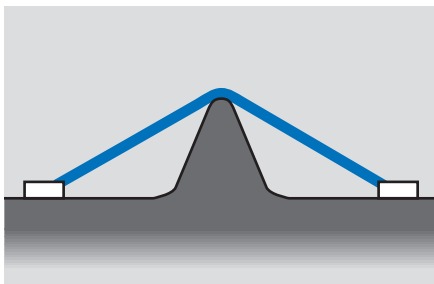
The design data resulting from these provisions is – if applicable – specified in this catalogue for each product.

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:

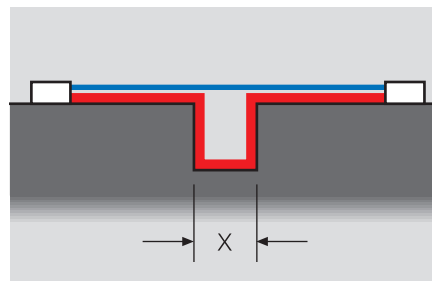
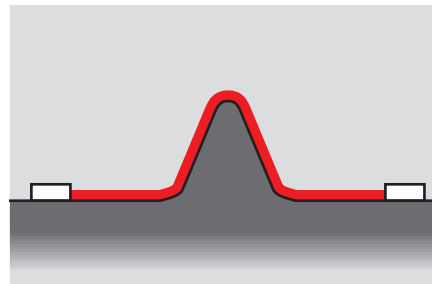
- Anticipated surge:
rated impulse withstand voltage
- Used
surge protection precaution
- Measures to prevent pollution:
pollution severity



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 $\frac{1}{3}$ 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)
- **Surge category**

The **surge categories** are defined in accordance with international standard DIN EN 60664-1 (for electrical equipment fed directly from the low voltage network):

Surge category I

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

Surge category II

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

Surge 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.

Surge 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 surge 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-cond. insulat.	For conductor-earth isolation	
	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	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	1,000	630	1,000
1,000	1,000	-	1,000

Electrical data

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	25	-
30	32	-
42/48/50 ^{**)}	50	-
60	63	-
30 - 60	63	32
100 ^{**)}	100	-
110/120	125	-
150 ^{**)}	160	-
220	250	-
110 - 220	250	125
120 - 240		
300 ^{**)}	320	-
220 - 440	500	250
600 ^{**)}	630	-
480 - 960	1,000	500
1,000 ^{**)}	1,000	-

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	1,000	630	1,000
1,000 ^{**)}	1,000	-	1,000

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.

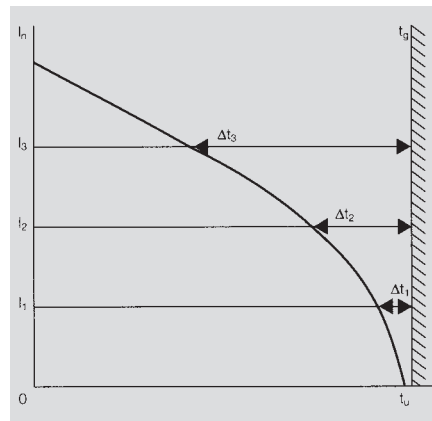
The **derating curve** shows which currents may flow continuously and simultaneously via all possible connections when the component is subjected to various ambient temperatures below its upper limit temperature.

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 decreases 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 605 12-3. 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.

Base curve

upper limit temperature of component

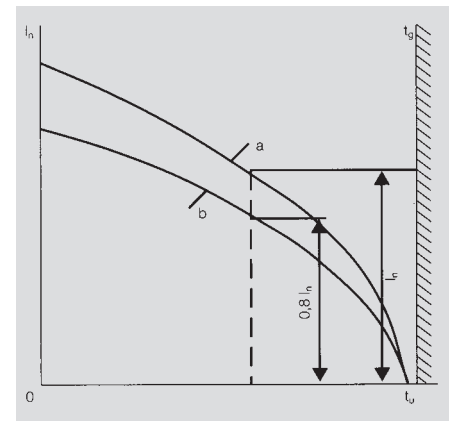


t_g = upper limit temperature of component
 t_u = ambient temperature
 I_n = current

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 percent results in the **“derating curve”** in which the maximum

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)

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.

Electromagnetic compatibility (EMC)

Many interfaces require the use of a connector that is EMC-compliant.

What is meant by the phrase EMC-compliant?

Electro-magnetic compatibility (EMC) refers to the ability of electrical equipment to function satisfactorily in its electromagnetic environment without introducing intolerable electromagnetic disturbances to anything in that environment.

(DIN VDE 0870). An electrical component or electrical equipment is considered to be compatible when their emissions and sensitivity levels are within a tolerable range (i.e., when there is sufficient interference immunity).

The basics

There are several types of measurements that can be used to determine the effectiveness of a cable shield. The method used here is the KS 04 B measurement from VG 95 373-41 "Electromagnetic compatibility of devices – methods for measuring shielded cable and shielded protective cable hoses". This method enables the quality of the shield to be evaluated. It also assesses the influence of the contact points of the shielding braid as well as the male and female plug components.

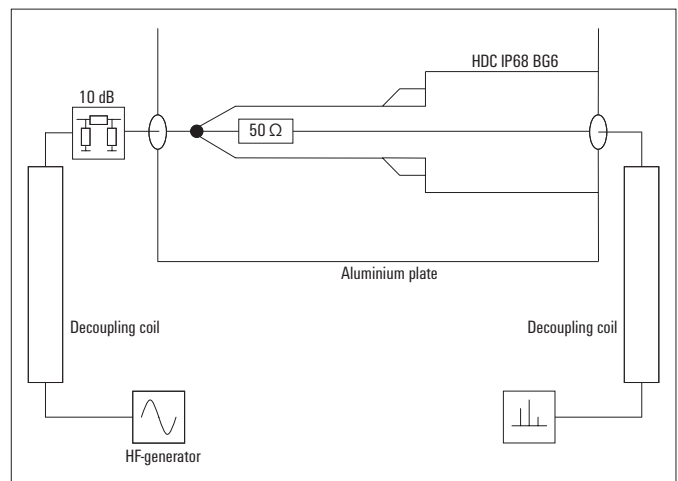
A standardised test cable with a length of one metre is used. This, and the fact that this measurement is carried out in a 50-ohm system which does not take the actual line impedance into account, leads to characteristic resonance effects. This means that this measurement process only delivers meaningful results up to a frequency of 30 to 100 MHz. It is, however, well suited for evaluating and comparing the effectiveness of various shielding and shield-contacting methods. It does not deliver an absolute value that would enable the limiting of voltages coupled in a cable, using an imposed HF electromagnetic field. The user should always consider the measurement results relative to the laboratory operational situation. Your actual, real-world shield attenuation values will normally be less than the values achieved in the lab because of different cable lengths, impedance behaviour and non-optimal earthing.

Testing methods

The method applied does not use the normative tri-axial measuring platform, but instead uses an aluminium plate (with dimensions 500 x 380 x 10 mm). This plate serves as the test's reference earth. HF sockets (N-standard) are mounted on two standing angular panels and are used to connect the measuring device. The flange along with the plug are mounted to one of the angular panels.

The limit value of the shield attenuation S_a is
 $f < 1 \text{ MHz}$: 60 dB

$1 \text{ MHz} < f < 100 \text{ MHz}$: 60 – 30 dB with 15 dB per decreasing decade
 $f = 100 \text{ MHz}$: 30 dB



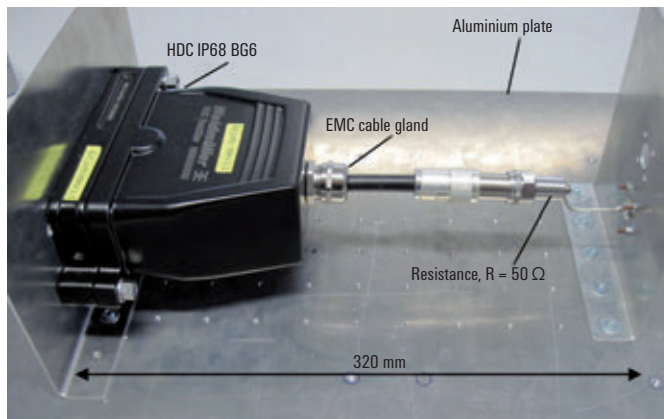
According to VG 95373-41, a frequency range up to 30 MHz is specified for the measurement process. However the range can be extended to about 100 MHz for information purposes.

The insertion loss as of the test object is determined by the relationship between the voltage on the interior wire and the supplied voltage. The VG95373-41 also refers to the insertion loss as the shield attenuation factor. The relationship between insertion loss as and coupling resistance Z_k is characterised as follows:

Insertion loss: $a_s \approx 20 \lg 50 \Omega / |Z_k|$ in dB
 Coupling resistance: $Z_k \approx 50 \Omega \times 10^{a_s / 20}$ in Ω

According to VG 95373-41, this relationship has sufficient precision when $Z_k < 500 \text{ m}\Omega$.

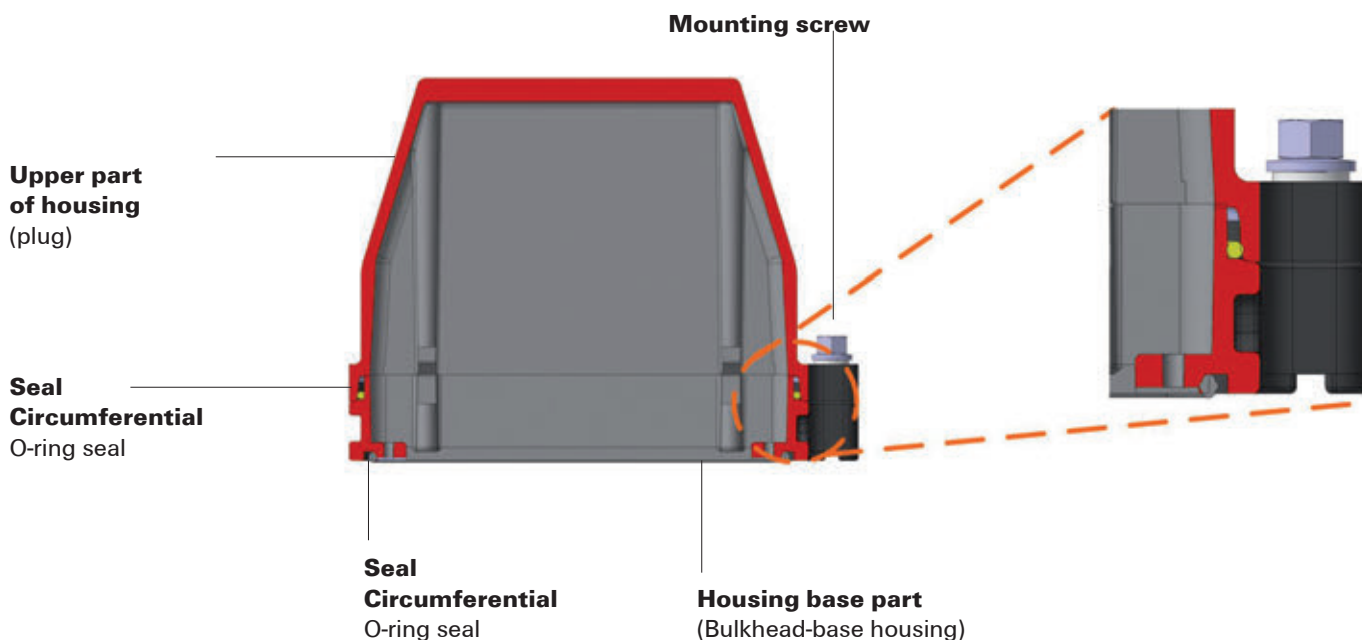
In order to test plug-in connectors, a reference shield cable is used that is separated in the middle. The cable can be connected with a corresponding connector pair and measured as described above. In order to evaluate the shield (the resistance between the cable shield and the reference earth), the connector frame and its reference earth are mounted directly to the cover of the testing equipment.



Housing must have very good EMC characteristics in order to meet these requirements.

Weidmüller has designed the RockStar® IP68 housing with built-in features that ensure outstanding EMC and resistance to interference.

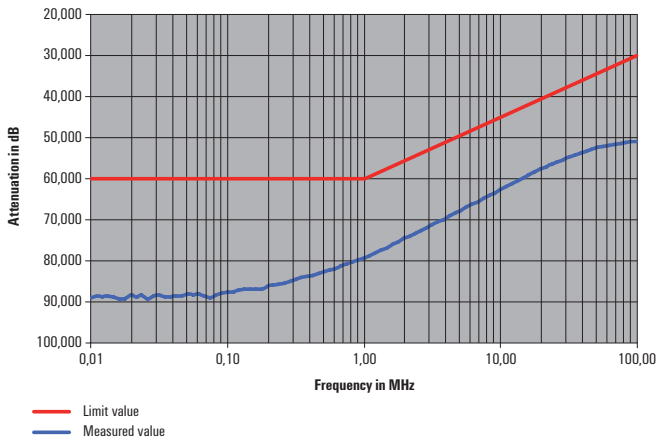
The bulkhead or base housing, combined with the plug housing, produces a labyrinth structure which ensures high EMC shield attenuation. In addition to providing the required EMC protection, this housing series features IP68/IP69K protection and excellent resistance to impacts and vibration. This combination of features permits the RockStar® IP68 housing to be used anywhere.



Technical data

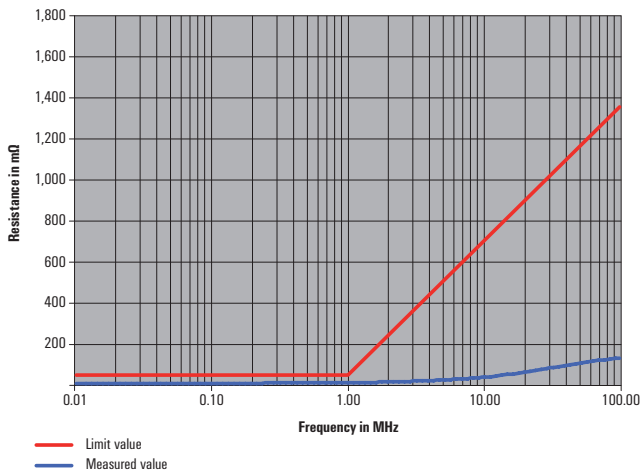
The requirements for an EMC-compliant interface stipulate that the interference immunity level or shield attenuation potential should be rated high enough so that the electromagnetic fields in the vicinity of the transmitted signals cannot exert influence within the connector. The capacity for active interference must be low enough to ensure that surrounding devices or components are not affected by interference. The following diagrams illustrate the insertion loss and the coupling impedance for the adjacent housing.

Insertion loss



HDC IP68 16B TSS 1M50

Coupling impedance



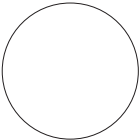






IP classes of protection to IEC 60529

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

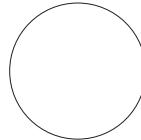
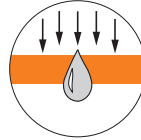
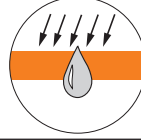
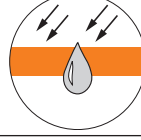
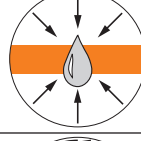

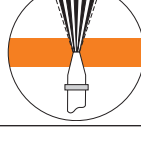
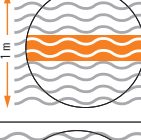
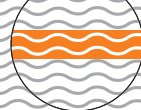
Example: **I P 6 5**

2nd digit: protection from liquids
1st digit: protection from solid bodies

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		Digit	
Typ 1	Housing primarily for use in inside rooms. Protects from penetration of solid bodies.	Typ 12	Housing for use in inside rooms. Protects from dust deposits and non-corrosive dripping liquids.
Typ 2	Housing primarily for use in inside rooms. Protects from penetration of solid bodies and water.	Typ 13	Housing for use in inside rooms. Protects from dust deposits, water spray, oil and non-corrosive coolants.
Typ 3	Housing primarily for outdoor use. Protection against penetration by rainfall and dust as well as damage due to ice formation.		
Typ 3R	Housing primarily for outdoor use. Protection against rain and snow as damage due to ice-formation.		
Typ 3S	Housing primarily for outdoor use. Protection against rain, snow and foreign bodies. External mechanisms can be operated despite ice accumulation.		
Typ 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.		
Typ 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.		
Typ 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.		

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	-

+ resistant
- partially resistant

Chemical resistance of standard housing seal (material NBR)

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

+ resistant
- partially resistant
o not resistant

Chemical resistance of inserts (material PA6.6, 20 % GF)

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

+ resistant
- partially resistant

Chemical resistance of silicone seal housing IP68

Acetone	+
Diesel oil	o
Ethyl alcohol	+
Gear oil	-
Hydraulic oil	-
Petrol	o
Sweat	-
High-octane petrol	o
Water	+
UV	+
Ozone	+

+ resistant
- partially resistant
o not resistant

Safety information and standards

Please note the following safety information:

- Never plug or unplug connectors under load or during operations.
- We can only guarantee the technical and electro-technical characteristics promised in this catalogue if all the components were supplied by Weidmüller.

The following standards apply in the vicinity of heavy-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)

RockStar® inserts

RockStar® inserts	Introduction	B.2
	HA series – the slim connectors	B.4
	250 V	
	16 A	
	3 – 48 poles	
	HE series – the universal connectors	B.18
	500 V	
	24 A	
	6 – 48 poles	
	HEE and HEEE series – high contact density	B.32
	500 V	
	16 A	
	10 – 64 poles	
	HD series – the flexible connectors	B.46
	250 V	
	10 A	
	7 – 128 poles	
	HDD series – the compact connectors	B.66
	250 V	
	10 A	
	24 – 216 poles	
	HVE series – exciting voltage	B.80
	830 V	
	20 A	
	3 + 2; 6 + 2; 10 + 2 poles	
	HSB series – the heavy-duty connectors	B.88
	400 V	
	35 A	
	6 – 12 poles	
	HQ series – the powerful little connectors	B.94
	400 V / 690 V	
	16 A, 10/40 A	
	4/2, 5, 7, 8, 12, 17 poles	
	MixMate series – the high-capacity connectors	B.108
	1,000 V / 690 V	
	100 A	
	4, 4/0, 4/2, 4/8, 6/6, 6/12, 6/36, 8/0, 8/24, 12/2 poles	

RockStar® inserts

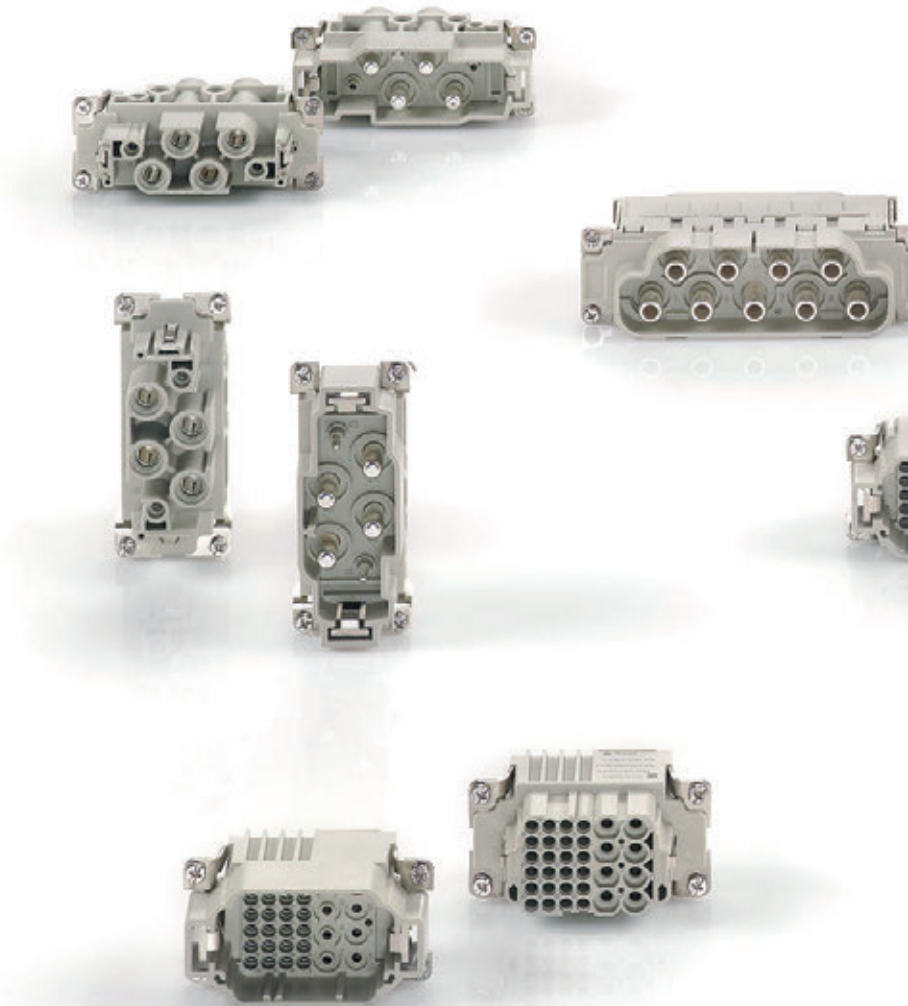
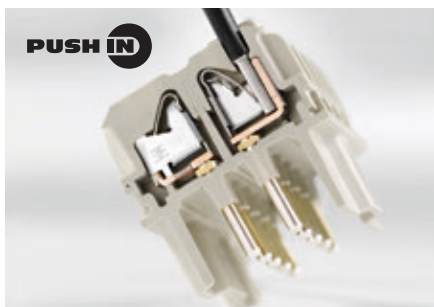
You can use Weidmüller's RockStar® products for a wide variety of industrial applications. This gives you access to the widest range of products available on the market for your cabling systems. The connector insert, or contact insert, forms the heart of a heavy-duty connector – and Weidmüller offers them in many different variants.

RockStar® inserts are fixed-pole inserts which consist of an insulating body and contact elements. The application-based design of a contact insert is determined by the electrical characteristics, mechanical specifications and the material used to make the insert.

The RockStar® inserts are made from glass-fibre-reinforced polycarbonate. This material is distinguished by its low water absorption and the high levels of dimensional stability made possible by the added glass fibres. So our rugged RockStar® inserts are the ideal choice for solutions of up to 216 poles and a maximum of 110 A / 1,000 V.

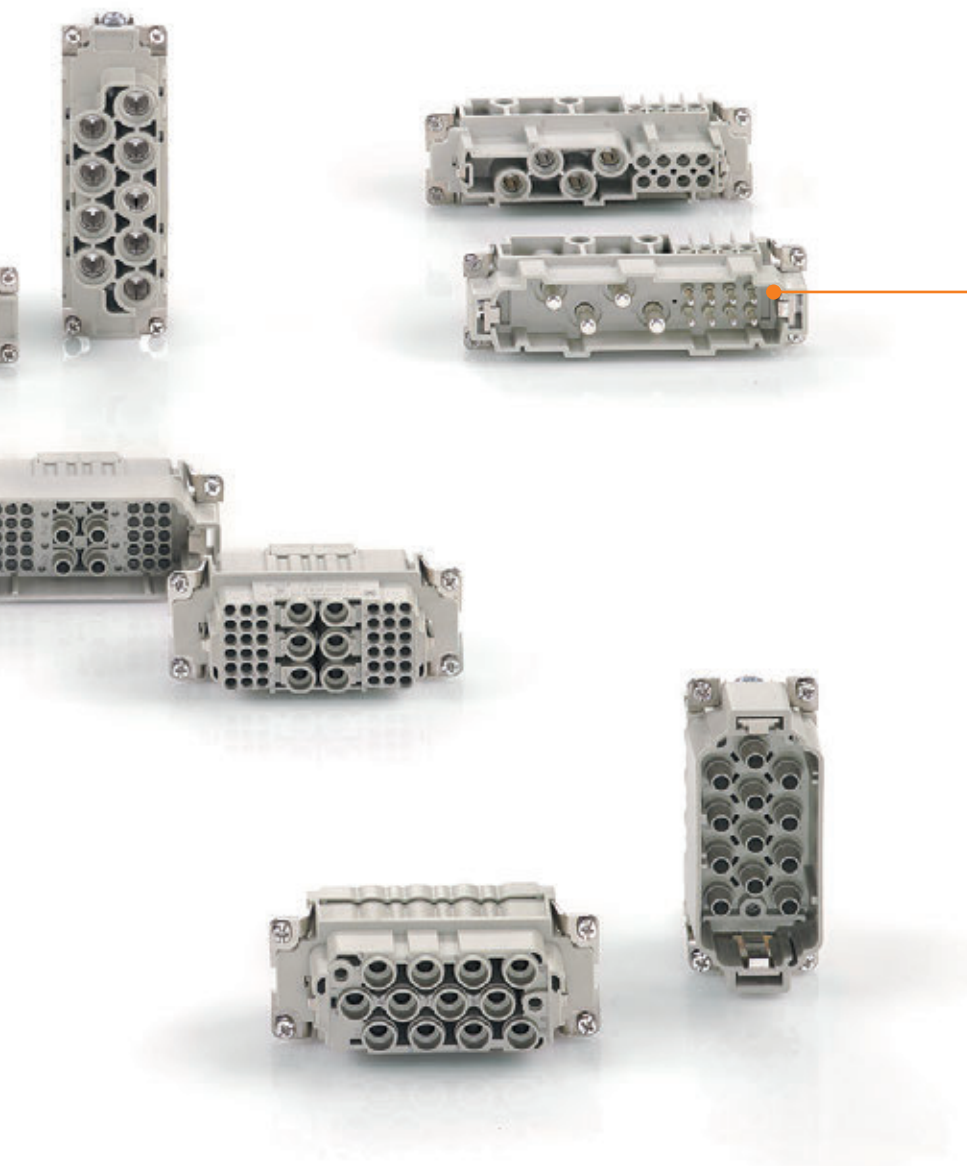
Simple

A quick and safe wire connection using the PUSH IN connection. Easy wiring and maintenance - with no tools!



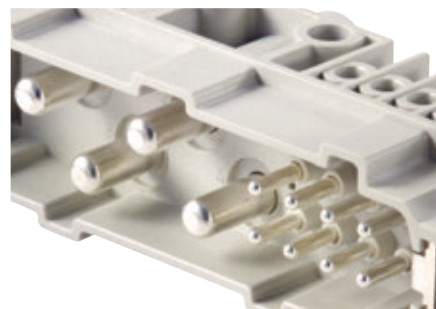
Consistency

One plastic material – with all approvals. This expands your range of choices. It also helps you to have simple documentation and reliable planning processes.



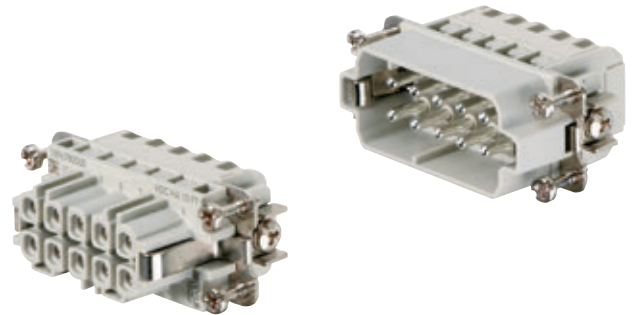
Suitable

Always according to your needs: including a space-saving combination of power and signals in one connector.



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	UL/CSA**
Inserts	
No. of poles	3, 4, 10, 16, 32, 48
Rated voltage	250 V (400 V - HA3, HA4)
Rated voltage to UL/CSA	600 V
Rated current	16 A
Rated impulse withstand voltage	4 kV
Pollution severity	3 (320 V / 4 kV / 2) (HA10, 16, 32, 48)
Insulation resistance	$\geq 10^{10} \Omega$
Material	Glass-fibre reinforced PC (in UL list and approved for railway applications)
Temperature range	-40 °C to +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	$\leq 2 \text{ m}\Omega$
Screw connection, Tension clamp connection	$\leq 2 \text{ m}\Omega$
Contacts/Material	
Sockets and plug-in contact	Copper alloy
Surface	Passivated silver, or gold-plated
Clamping unit/Screw connection	Copper alloy/Passivated silver
Clamping range/Stripping length	
- Crimp connection*	0.5 - 2.5 mm ² (AWG 20 - 14) / 7.5 mm
- Screw connection	0.5 - 2.5 mm ² (AWG 20 - 14) / 9 mm***
- Tension clamp connection	0.25 - 2.5 mm ² (AWG 24 - 14) / 8 mm
Clamping torque	
- Screw connection	0.5 - 0.55 Nm
SD blades	
- Screw connection	0.6 x 3.5 or PZ0
- Tension clamp connection	0.5 x 3 or 0.6 x 3.5
PE 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 - 1.5 Nm
- Blade dimensions	SD 0.8 x 4 mm or PZ1






Note:
When used properly and as designated, the listed connectors may not be connected or disconnected if there is a live voltage or load!

* Crimping with flexible conductors

** For screw and crimp connections

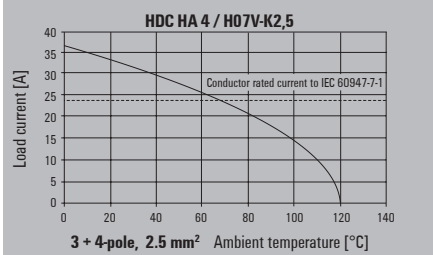
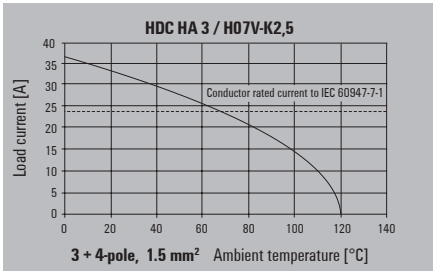
*** Stripping length of 15 mm for the 3- and 4-pole HA

Overview

	Size	Rated voltage	Rated current	No. of poles	Tension clamp connection	TOP connection	Screw conn. with wire guard spring	Crimp connection	PUSH IN connection	Page
	1	400 V	16 A	3 + ⊕		•				B.6
	1	400 V	16 A	4 + ⊕		•				B.8
	2	250 V	16 A	10 + ⊕	•		•	•		B.10
	5	250 V	16 A	16 + ⊕	•		•	•		B.12
	7	250 V	16 A	32 + ⊕	•		•	•		B.14
	9	250 V		48 + ⊕	•		•	•		B.16

400 V, 16A, size 1

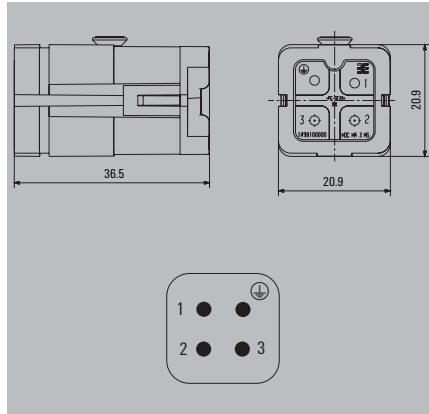
3 + ⊕



Installation cut-out



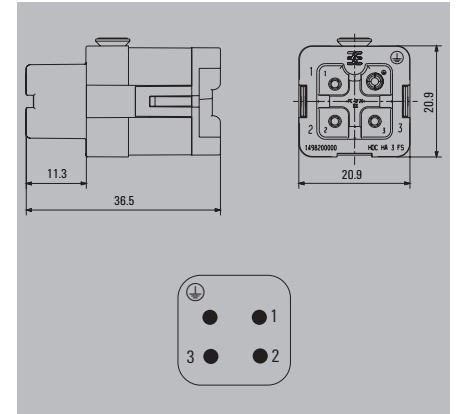
Male



Ordering data

Type of connection	Type	Qty.	Order No.
Screw connection	HDC HA 3 MS	1	1498100000

Female



Ordering data

Type of connection	Type	Qty.	Order No.
Screw connection	HDC HA 3 FS	1	1498200000

Housing selection RockStar® IP65
Size 1



For additional housings, refer to
Chapter E for IP65 / Chapter F for IP68

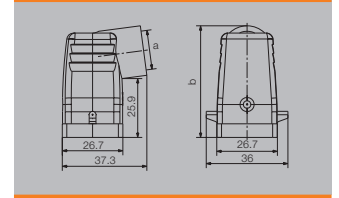
Hood

Plug housing, cable entry sideways



Material: diecast aluminium

a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		49.2	HDC 04A TWLU 1M20G	1788810000

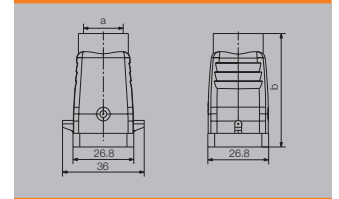


Plug housing, cable entry at top



Material: diecast aluminium

a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		50	HDC 04A TOLU 1M20G	1788820000



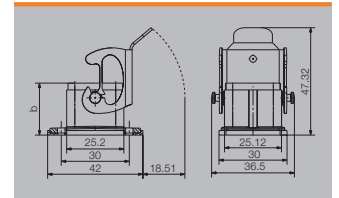
Base

Bulkhead housing



Material: diecast aluminium

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

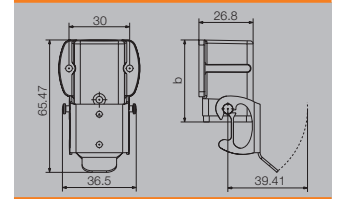


Base housing



Material: diecast aluminium

a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		41.5	HDC 04A SLU 1M20G	1788830000

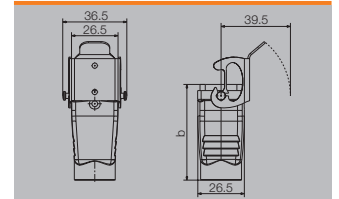


Coupling housing



Material: diecast aluminium

a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		53.5	HDC 04A KOLU 1M20G	1788840000

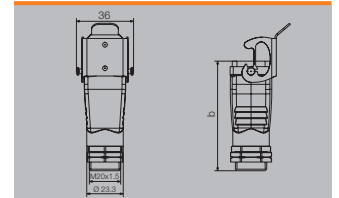


Screw mounting housing



Material: diecast aluminium

a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		54	HDC 04A ELU 1M20G	1900320000

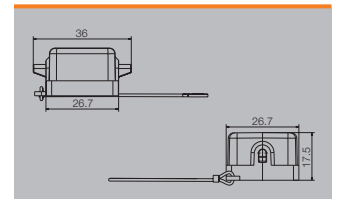


Cover



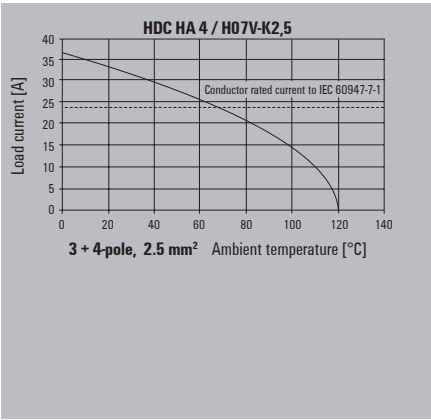
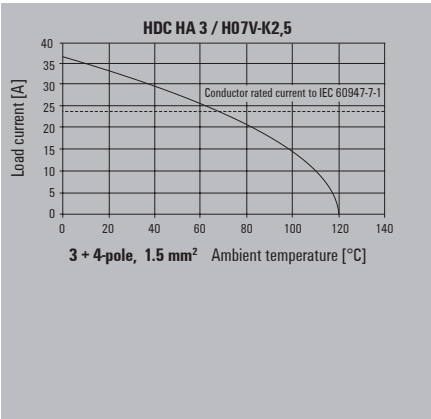
Material: diecast aluminium

Version	Type	Order No.
for female insert	HDC 04A DMDL 2B0	1665750000
for male insert	HDC 04A DDDL 2B0	1665740000



400 V, 16A, size 1

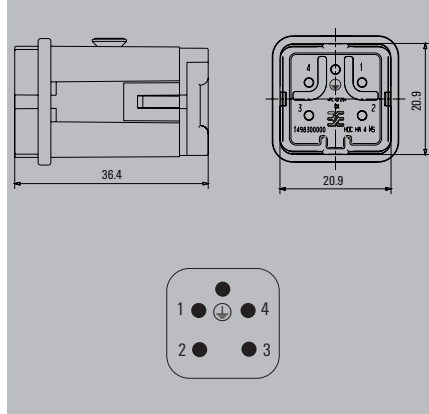
4 + ⊕



Installation cut-out



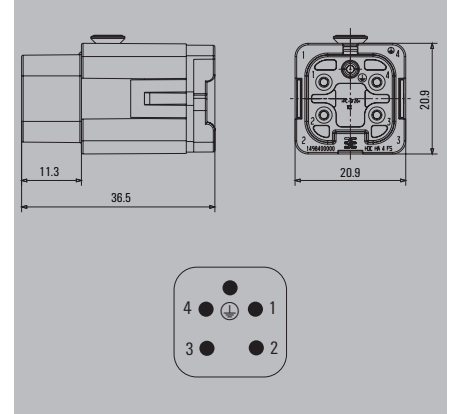
Male



Ordering data

Type of connection	Type	Qty.	Order No.
Screw connection	HDC HA 4 MS	1	1498300000

Female



Ordering data

Type of connection	Type	Qty.	Order No.
Screw connection	HDC HA 4 FS	1	1498400000

Housing selection RockStar® IP65
Size 1



For additional housings, refer to
Chapter E for IP65 / Chapter F for IP68

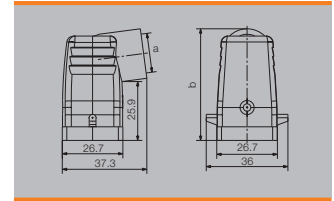
Hood

Plug housing, cable entry sideways



Material: diecast aluminium

a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		49.2	HDC 04A TWLU 1M20G	1788810000

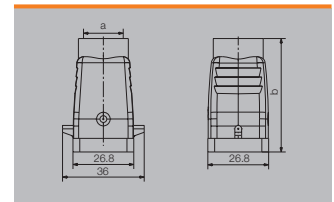


Plug housing, cable entry at top



Material: diecast aluminium

a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		50	HDC 04A TOLU 1M20G	1788820000



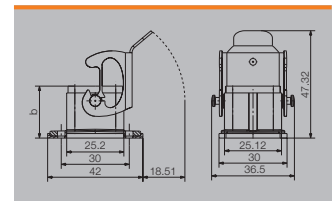
Base

Bulkhead housing



Material: diecast aluminium

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

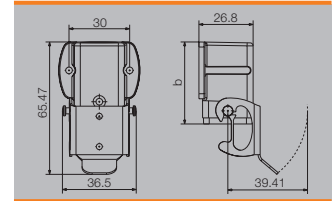


Base housing



Material: diecast aluminium

a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		41.5	HDC 04A SLU 1M20G	1788830000

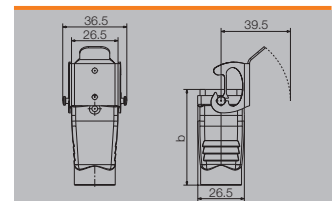


Coupling housing



Material: diecast aluminium

a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		53.5	HDC 04A KOLU 1M20G	1788840000

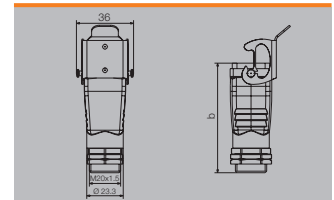


Screw mounting housing



Material: diecast aluminium

a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		54	HDC 04A ELU 1M20G	1900320000

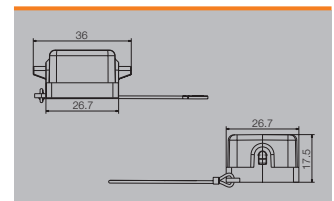


Cover



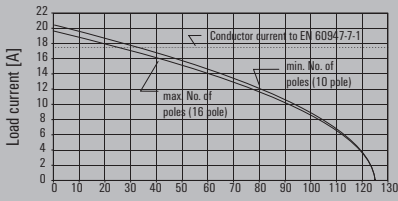
Material: diecast aluminium

Version	Type	Order No.
for female insert	HDC 04A DMDL 2B0	1665750000
for male insert	HDC 04A DDDL 2B0	1665740000

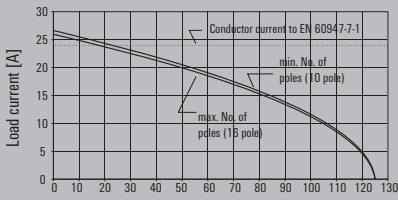


250V, 16 A, size 2

10 + ⊕

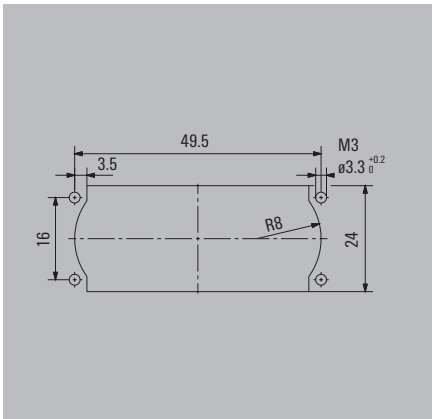


10..48-pole, 1.5 mm² Ambient temperature [°C]

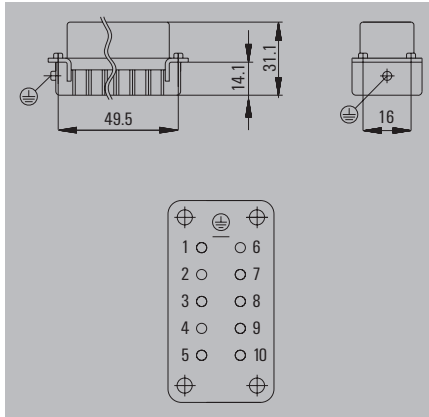


10..48-pole, 2.5 mm² Ambient temperature [°C]

Installation cut-out



Male



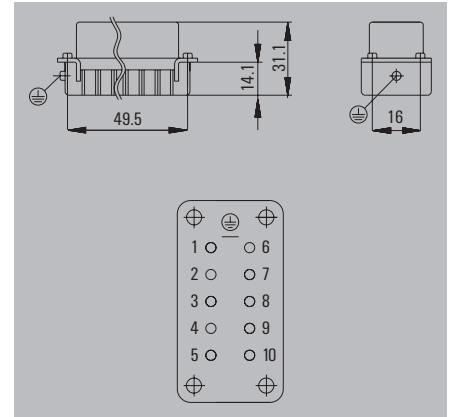
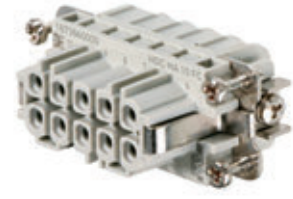
Ordering data

Type of connection	Type	Qty.	Order No.
Tension clamp conn.	HDC HA 10 MT	1	1896790000
Screw connection	HDC HA 10 MS	1	1650610000
Crimp connection	HDC HA 10 MC	1	1873870000

Accessories

Type	Qty.	Order No.
Crimp contacts, male - gold		
HDC-C-HE-SM0.5AU	100	1651420000
HDC-C-HE-SM0.75-1.00AU	100	1651430000
HDC-C-HE-SM1.5AU	100	1651440000
HDC-C-HE-SM2.5AU	100	1651450000
HDC-C-HE-SM4.0AU	100	1651460000
Crimp contacts, male - silver		
HDC-C-HE-SM0.5AG	100	1200500000
HDC-C-HE-SM0.75-1.00AG	100	1200600000
HDC-C-HE-SM1.5AG	100	1200700000
HDC-C-HE-SM2.5AG	100	1200800000
HDC-C-HE-SM4.0AG	100	1200900000
Tools		
CTX CM 1.6/2.5	1	9018490000
Removal Tool HE	1	1866750000

Female



Ordering data

Type of connection	Type	Qty.	Order No.
Tension clamp conn.	HDC HA 10 FT	1	1896780000
Screw connection	HDC HA 10 FS	1	1650620000
Crimp connection	HDC HA 10 FC	1	1873860000

Accessories

Type	Qty.	Order No.
Crimp contacts, female - gold		
HDC-C-HE-BM0.5AU	100	1651470000
HDC-C-HE-BM0.75-1.00AU	100	1651480000
HDC-C-HE-BM1.5AU	100	1651490000
HDC-C-HE-BM2.5AU	100	1651500000
HDC-C-HE-BM4.0AU	100	1651510000
Crimp contacts, female - silver		
HDC-C-HE-BM0.5AG	100	1201100000
HDC-C-HE-BM0.75-1.00AG	100	1201200000
HDC-C-HE-BM1.5AG	100	1201300000
HDC-C-HE-BM2.5AG	100	1201400000
HDC-C-HE-BM4.0AG	100	1201500000
Tools		
CTX CM 1.6/2.5	1	9018490000
Removal Tool HE	1	1866750000

Housing selection RockStar® IP65
Size 2



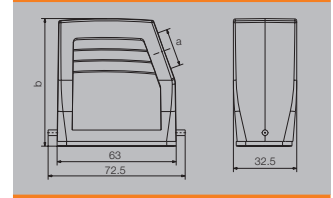
For additional housings, refer to chapter E for IP65

Hood

Plug housing, cable entry sideways



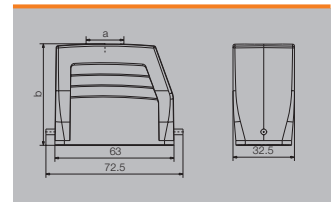
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		68	HDC 15A TSLU 1M20G	1788860000
M 25	w. threading		68	HDC 15A TSLU 1M25G	1788850000



Plug housing, cable entry at top



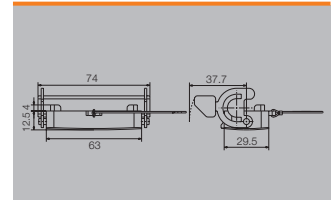
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		54	HDC 10A TOLL 1M20G	1788620000
M 25	w. threading		54	HDC 10A TOLL 1M25G	1788610000



Cover



Version	Type	Order No.
For hoods (upper parts of housings)	HDC 10A DDDL 1LB	1665890000

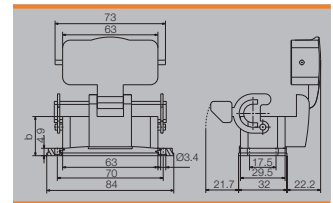


Base

Bulkhead housing



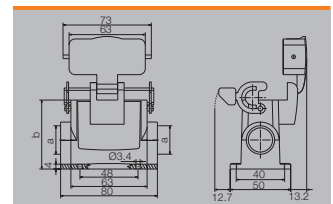
Version	Cover	b (mm)	Type	Order No.
		25	HDC 10A ALU	1664040000
	with cover	37.5	HDC 10A ADLU	1664060000



Base housing



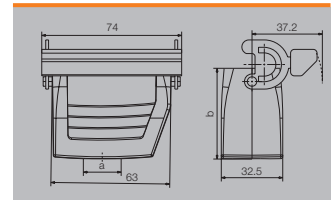
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		57	HDC 10A SLU 2M20G	1788640000
M 20	w. threading	with cover	69.5	HDC 10A SDLU 2M20G	1788660000
M 25	w. threading		57	HDC 10A SLU 2M25G	1788630000
M 25	w. threading	with cover	69.5	HDC 10A SDLU 2M25G	1788650000



Coupling housing



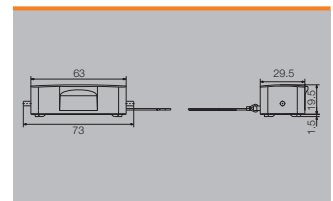
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		48	HDC 10A KLU 1M25G	1788670000



Cover

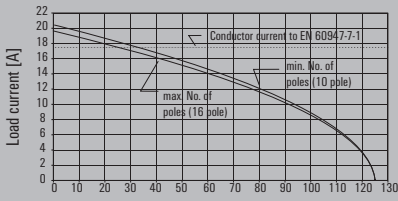


Version	Type	Order No.
For bases (lower parts of housings)	HDC 10A DMDL 2B0	1665880000

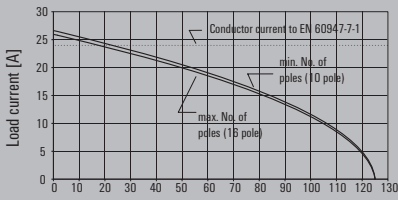


250V, 16 A, size 5

16 + ⊕

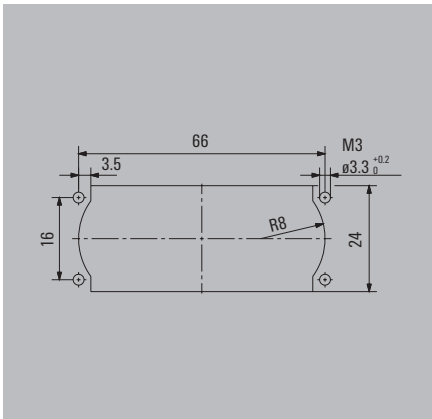


10..48-pole, 1.5 mm² Ambient temperature [°C]

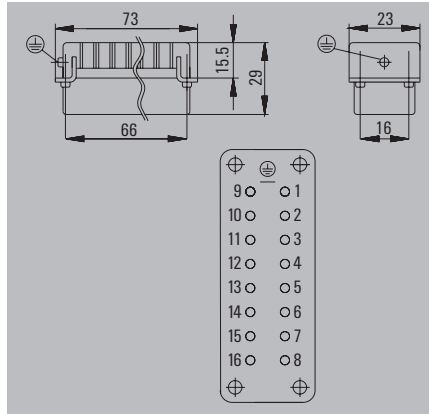
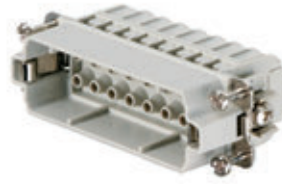


10..48-pole, 2.5 mm² Ambient temperature [°C]

Installation cut-out



Male



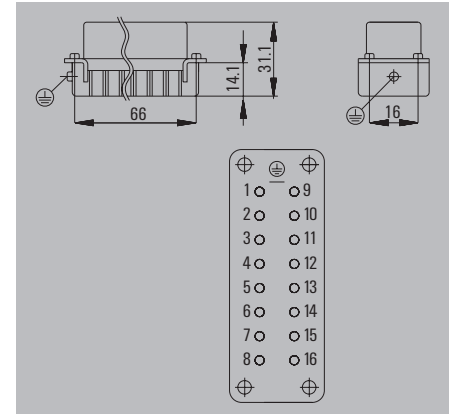
Ordering data

Type of connection	Type	Qty.	Order No.
Tension clamp conn.	HDC HA 16 MT	1	1896830000
Screw connection	HDC HA 16 MS	1	1650770000
Crimp connection	HDC HA 16 MC	1	1873890000

Accessories

Type	Qty.	Order No.
Crimp contacts, male - gold		
HDC-C-HE-SM0.5AU	100	1651420000
HDC-C-HE-SM0.75-1.00AU	100	1651430000
HDC-C-HE-SM1.5AU	100	1651440000
HDC-C-HE-SM2.5AU	100	1651450000
HDC-C-HE-SM4.0AU	100	1651460000
Crimp contacts, male - silver		
HDC-C-HE-SM0.5AG	100	1200500000
HDC-C-HE-SM0.75-1.00AG	100	1200600000
HDC-C-HE-SM1.5AG	100	1200700000
HDC-C-HE-SM2.5AG	100	1200800000
HDC-C-HE-SM4.0AG	100	1200900000
Tools		
CTX CM 1.6/2.5	1	9018490000
Removal Tool HE	1	1866750000

Female



Ordering data

Type of connection	Type	Qty.	Order No.
Tension clamp conn.	HDC HA 16 FT	1	1896800000
Screw connection	HDC HA 16 FS	1	1650780000
Crimp connection	HDC HA 16 FC	1	1873880000

Accessories

Type	Qty.	Order No.
Crimp contacts, female - gold		
HDC-C-HE-BM0.5AU	100	1651470000
HDC-C-HE-BM0.75-1.00AU	100	1651480000
HDC-C-HE-BM1.5AU	100	1651490000
HDC-C-HE-BM2.5AU	100	1651500000
HDC-C-HE-BM4.0AU	100	1651510000
Crimp contacts, female - silver		
HDC-C-HE-BM0.5AG	100	1201100000
HDC-C-HE-BM0.75-1.00AG	100	1201200000
HDC-C-HE-BM1.5AG	100	1201300000
HDC-C-HE-BM2.5AG	100	1201400000
HDC-C-HE-BM4.0AG	100	1201500000
Tools		
CTX CM 1.6/2.5	1	9018490000
Removal Tool HE	1	1866750000

Housing selection RockStar® IP65
Size 5



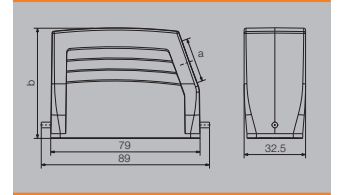
For additional housings, refer to chapter E for IP65

Hood

Plug housing, cable entry sideways



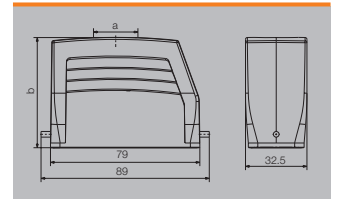
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		72	HDC 25A TSLU 1M20G	1788680000
M 25	w. threading		58	HDC 16A TSLU 1M25G	1788740000
M 25	w. threading		72	HDC 25A TSLU 1M25G	1788690000



Plug housing, cable entry at top



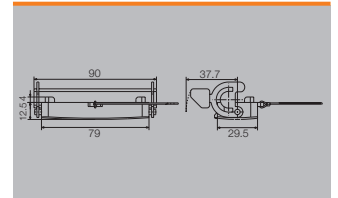
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		72	HDC 25A TOLU 1M20G	1788710000
M 25	w. threading		58	HDC 16A TOLU 1M25G	1788750000
M 25	w. threading		72	HDC 25A TOLU 1M25G	1788700000



Cover



Version	Type	Order No.
For hoods (upper parts of housings)	HDC 16A DDDL 1LB	1665900000

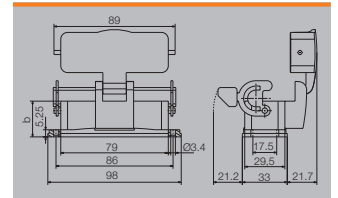


Base

Bulkhead housing



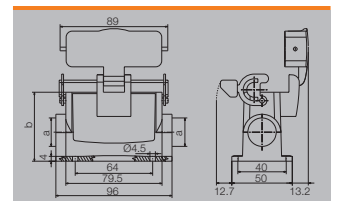
Version	Cover	b (mm)	Type	Order No.
		25	HDC 16A ALU	1664920000
	with cover	44.5	HDC 16A ADLU	1664940000



Base housing



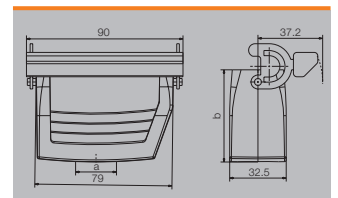
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		57	HDC 16A SLU 2M20G	1788770000
M 20	w. threading	with cover	76.5	HDC 16A SDLU 2M20G	1788790000
M 25	w. threading		57	HDC 16A SLU 2M25G	1788760000
M 25	w. threading	with cover	76.5	HDC 16A SDLU 2M25G	1788780000



Coupling housing



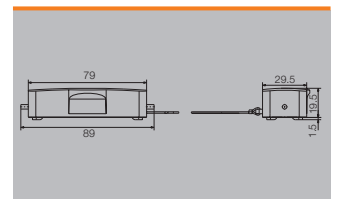
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		53	HDC 16A KLU 1M25G	1788800000



Cover

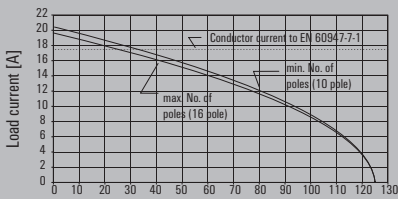


Version	Type	Order No.
For bases (lower parts of housings)	HDC 16A DMDL 2B0	1665910000

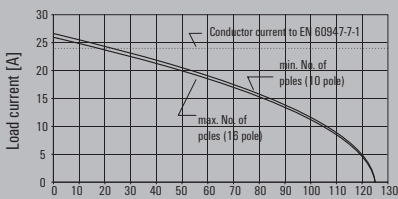


250 V, 16 A, size 7

32 + ⊥

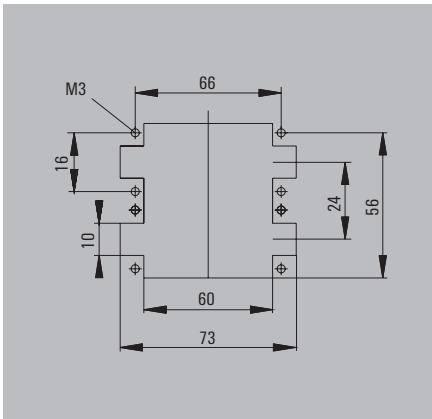


10..48-pole, 1.5 mm² Ambient temperature [°C]

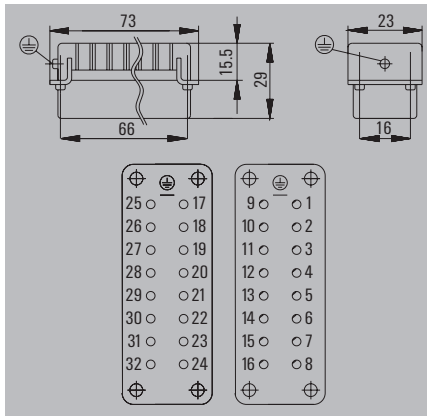


10..48-pole, 2.5 mm² Ambient temperature [°C]

Installation cut-out



Male



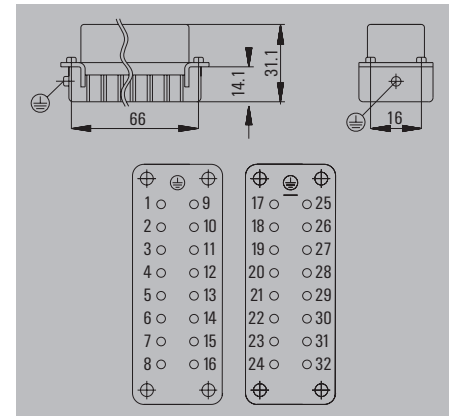
Ordering data

Type of connection	Type	Qty.	Order No.
Tension clamp conn.	HDC HA 16 MT	1	1896830000
Tension clamp conn.	HDC HA 16 MT 17-32	1	1896840000
Screw connection	HDC HA 16 MS	1	1650770000
Screw connection	HDC HA 16 MS 17-32	1	1650880000
Crimp connection	HDC HA 16 MC	1	1873890000
Crimp connection	HDC HA 16 MC 17 - 32	1	1875620000

Accessories

Type	Qty.	Order No.
Crimp contacts, male - gold		
HDC-C-HE-SM0.5AU	100	1651420000
HDC-C-HE-SM0.75-1.00AU	100	1651430000
HDC-C-HE-SM1.5AU	100	1651440000
HDC-C-HE-SM2.5AU	100	1651450000
HDC-C-HE-SM4.0AU	100	1651460000
Crimp contacts, male - silver		
HDC-C-HE-SM0.5AG	100	1200500000
HDC-C-HE-SM0.75-1.00AG	100	1200600000
HDC-C-HE-SM1.5AG	100	1200700000
HDC-C-HE-SM2.5AG	100	1200800000
HDC-C-HE-SM4.0AG	100	1200900000
Tools		
CTX CM 1.6/2.5	1	9018490000
Removal Tool HE	1	1866750000

Female



Ordering data

Type of connection	Type	Qty.	Order No.
Tension clamp conn.	HDC HA 16 FT	1	1896800000
Tension clamp conn.	HDC HA 16 FT 17-32	1	1896810000
Screw connection	HDC HA 16 FS	1	1650780000
Screw connection	HDC HA 16 FS 17-32	1	1650900000
Crimp connection	HDC HA 16 FC	1	1873880000
Crimp connection	HDC HA 16 FC 17 - 32	1	1876040000

Accessories

Type	Qty.	Order No.
Crimp contacts, female - gold		
HDC-C-HE-BM0.5AU	100	1651470000
HDC-C-HE-BM0.75-1.00AU	100	1651480000
HDC-C-HE-BM1.5AU	100	1651490000
HDC-C-HE-BM2.5AU	100	1651500000
HDC-C-HE-BM4.0AU	100	1651510000
Crimp contacts, female - silver		
HDC-C-HE-BM0.5AG	100	1201100000
HDC-C-HE-BM0.75-1.00AG	100	1201200000
HDC-C-HE-BM1.5AG	100	1201300000
HDC-C-HE-BM2.5AG	100	1201400000
HDC-C-HE-BM4.0AG	100	1201500000
Tools		
CTX CM 1.6/2.5	1	9018490000
Removal Tool HE	1	1866750000

Housing selection RockStar® IP65
Size 7



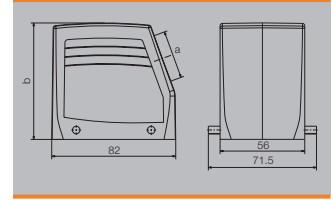
For additional housings, refer to chapter E for IP65

Hood

Plug housing, cable entry sideways



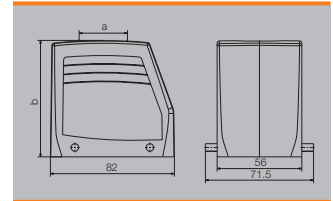
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		75	HDC 32A TSBU 1M25G	1787960000
M 32	w. threading		75	HDC 32A TSBU 1M32G	1787950000



Plug housing, cable entry at top



a	Version	Cover	b (mm)	Type	Order No.
M 32	w. threading		75	HDC 32A TOBU 1M32G	1787990000

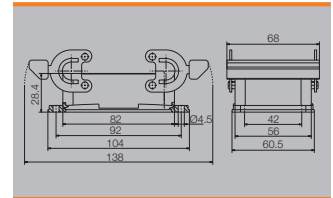


Base

Bulkhead housing



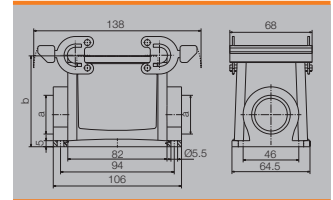
Version	Cover	b (mm)	Type	Order No.
		28.4	HDC 32A ABU	1665860000



Base housing



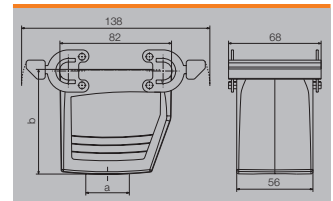
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		75	HDC 32A SBU 2M25G	1788040000



Coupling housing

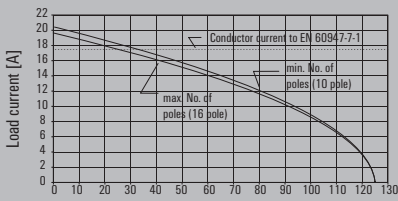


a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		76.5	HDC 32A KBU 1M25G	1788080000
M 32	w. threading		76.5	HDC 32A KBU 1M32G	1788070000

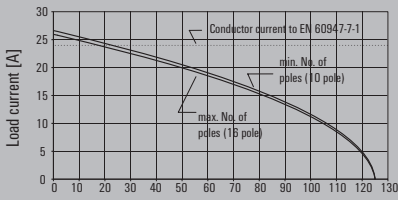


250 V, 16 A, size 9

48 + ⊥

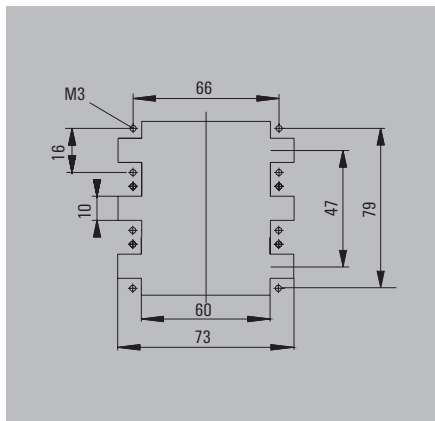


10..48-pole, 1.5 mm² Ambient temperature [°C]

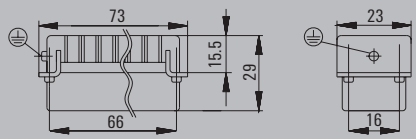


10..48-pole, 2.5 mm² Ambient temperature [°C]

Installation cut-out

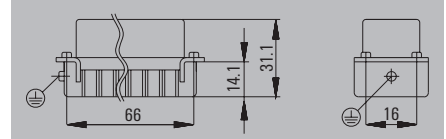


Male



41 ♂ ○ 33	25 ♂ ○ 17	9 ♂ ○ 1
42 ♂ ○ 34	26 ♂ ○ 18	10 ♂ ○ 2
43 ♂ ○ 35	27 ♂ ○ 19	11 ♂ ○ 3
44 ♂ ○ 36	28 ♂ ○ 20	12 ♂ ○ 4
45 ♂ ○ 37	29 ♂ ○ 21	13 ♂ ○ 5
46 ♂ ○ 38	30 ♂ ○ 22	14 ♂ ○ 6
47 ♂ ○ 39	31 ♂ ○ 23	15 ♂ ○ 7
48 ♂ ○ 40	32 ♂ ○ 24	16 ♂ ○ 8

Female



1 ♀ ○ 9	17 ♀ ○ 25	33 ♀ ○ 41
2 ♀ ○ 10	18 ♀ ○ 26	34 ♀ ○ 42
3 ♀ ○ 11	19 ♀ ○ 27	35 ♀ ○ 43
4 ♀ ○ 12	20 ♀ ○ 28	36 ♀ ○ 44
5 ♀ ○ 13	21 ♀ ○ 29	37 ♀ ○ 45
6 ♀ ○ 14	22 ♀ ○ 30	38 ♀ ○ 46
7 ♀ ○ 15	23 ♀ ○ 31	39 ♀ ○ 47
8 ♀ ○ 16	24 ♀ ○ 32	40 ♀ ○ 48

Ordering data

Type of connection	Type	Qty.	Order No.
Tension clamp conn.	HDC HA 16 MT	1	1896830000
Tension clamp conn.	HDC HA 16 MT 17-32	1	1896840000
Tension clamp conn.	HDC HA 16 MT 33-48	1	1896850000
Screw connection	HDC HA 16 MS	1	1650770000
Screw connection	HDC HA 16 MS 17-32	1	1650880000
Screw connection	HDC HA 16 MS 33-48	1	1650990000
Crimp connection	HDC HA 16 MC	1	1873890000
Crimp connection	HDC HA 16 MC 17 - 32	1	1875620000
Crimp connection	HDC HA 16 MC 33 - 48	1	1875630000

Ordering data

Type of connection	Type	Qty.	Order No.
Tension clamp conn.	HDC HA 16 FT	1	1896800000
Tension clamp conn.	HDC HA 16 FT 17-32	1	1896810000
Tension clamp conn.	HDC HA 16 FT 33-48	1	1896820000
Screw connection	HDC HA 16 FS	1	1650780000
Screw connection	HDC HA 16 FS 17-32	1	1650900000
Screw connection	HDC HA 16 FS 33-48	1	1651020000
Crimp connection	HDC HA 16 FC	1	1873880000
Crimp connection	HDC HA 16 FC 17 - 32	1	1876040000
Crimp connection	HDC HA 16 FC 33 - 48	1	1875540000

Accessories

Type	Qty.	Order No.
Crimp contacts, male - gold		
HDC-C-HE-SM0.5AU	100	1651420000
HDC-C-HE-SM0.75-1.00AU	100	1651430000
HDC-C-HE-SM1.5AU	100	1651440000
HDC-C-HE-SM2.5AU	100	1651450000
HDC-C-HE-SM4.0AU	100	1651460000
Crimp contacts, male - silver		
HDC-C-HE-SM0.5AG	100	1200500000
HDC-C-HE-SM0.75-1.00AG	100	1200600000
HDC-C-HE-SM1.5AG	100	1200700000
HDC-C-HE-SM2.5AG	100	1200800000
HDC-C-HE-SM4.0AG	100	1200900000
Tools		
CTX CM 1.6/2.5	1	9018490000
Removal Tool HE	1	1866750000

Accessories

Type	Qty.	Order No.
Crimp contacts, female - gold		
HDC-C-HE-BM0.5AU	100	1651470000
HDC-C-HE-BM0.75-1.00AU	100	1651480000
HDC-C-HE-BM1.5AU	100	1651490000
HDC-C-HE-BM2.5AU	100	1651500000
HDC-C-HE-BM4.0AU	100	1651510000
Crimp contacts, female - silver		
HDC-C-HE-BM0.5AG	100	1201100000
HDC-C-HE-BM0.75-1.00AG	100	1201200000
HDC-C-HE-BM1.5AG	100	1201300000
HDC-C-HE-BM2.5AG	100	1201400000
HDC-C-HE-BM4.0AG	100	1201500000
Tools		
CTX CM 1.6/2.5	1	9018490000
Removal Tool HE	1	1866750000

Housing selection RockStar® IP65
Size 9



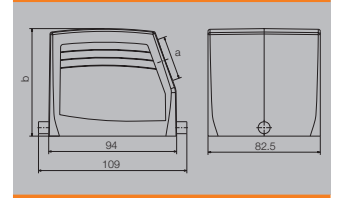
For additional housings, refer to chapter E for IP65

Hood

Plug housing, cable entry sideways



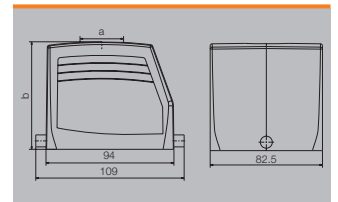
a	Version	Cover	b (mm)	Type	Order No.
M 32	w. threading		79	HDC 48A TSLU 1M32G	1788550000



Plug housing, cable entry at top



a	Version	Cover	b (mm)	Type	Order No.
M 32	w. threading		79	HDC 48A TOLU 1M32G	1788560000

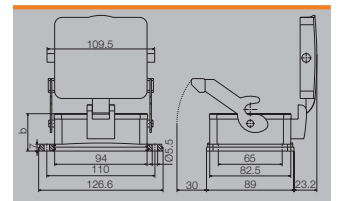


Base

Bulkhead housing



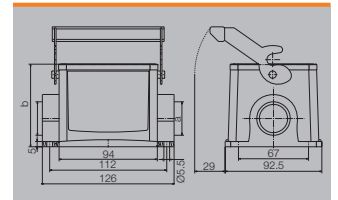
Version	Cover	b (mm)	Type	Order No.
		38	HDC 48A ALU	1666740000
	with cover	55	HDC 48A ADLU	1666750000



Base housing



a	Version	Cover	b (mm)	Type	Order No.
M 32	w. threading		79	HDC 48A SLU 2M32G	1788570000

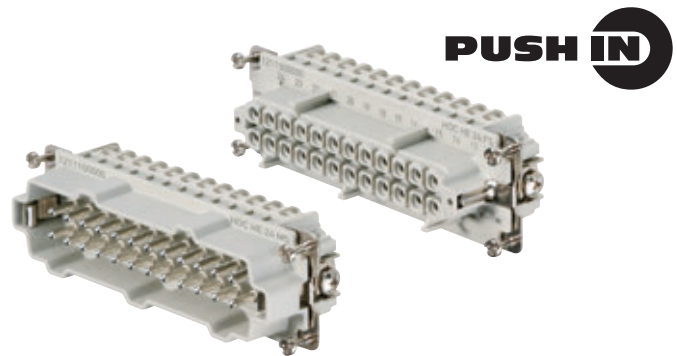


HE series – the universal connectors

With the HE range, you can choose the wire connection method.

In addition to our proven tension-clamp connection, we can also deliver with screw, crimp or PUSH IN wire connection.

You choose the connection method which you need.



Technical data

Standards/approvals	
Standards	DIN EN 61984 DIN EN 60664-1
Approvals	UL/CSA**, ISO 23570 (DESINA)*
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 (630 V / 6 kV / 2)
Insulation resistance	$\geq 10^{10} \Omega$
Material	Glass-fibre reinforced PC (in UL list and approved for railway applications)
Temperature range	-40 °C to +125 °C
Flammability to UL 94	V-0
Mechanical service life	
- Plugging cycles Ag-Surface	≥ 500
- Plugging cycles Au-Surface	≥ 500
Contact resistance	$\leq 2 \text{ m}\Omega$
Contacts/Material	
Contacts	Copper alloy
Surface	Passivated silver, or gold-plated
Clamping range/Stripping length	
- Crimp connection	
- stranded/flexible	0.5 - 4.0 mm ² / 0.5 - 4.0 mm ² (AWG 20 - 12) / 7.5 mm
- Screw connection	
- solid/stranded	0.5 - 2.5 mm ² / 0.5 - 2.5 mm ² (AWG 20 - 14) / 9 mm
- flexible/flexible with wire end ferrule	0.5 - 2.5 mm ² / 0.5 - 2.5 mm ² (AWG 20 - 14) / 9 mm
- Tension clamp connection	
- solid/stranded	0.25 - 2.5 mm ² / (AWG 24 - 14) / 8 mm
- flexible/flexible with wire end ferrule	0.25 - 2.5 mm ² / (AWG 24 - 14) / 8 mm
- PUSH IN	
- solid	0.5 - 4 mm ² (AWG 20 - 12) / 10 mm
- flexible with wire end ferrule without collar	0.5 - 2.5 mm ² (AWG 20 - 14) / 12 mm
Clamping torque	
- Screw connection	0.5 - 0.55 Nm
SD blades	
- Screw connection	0.6 x 3.5 or PZ0
- PUSH IN	0.4 x 2.5
- Tension clamp connection	0.5 x 3 or 0.6 x 3.5

Contacts/Material

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 PZ1













Note:

When used properly and as designated, the listed connectors may not be connected or disconnected if there is a live voltage or load!
Inserts with PUSH IN connection can be connected to the H07V-U4 conductor.

Note:

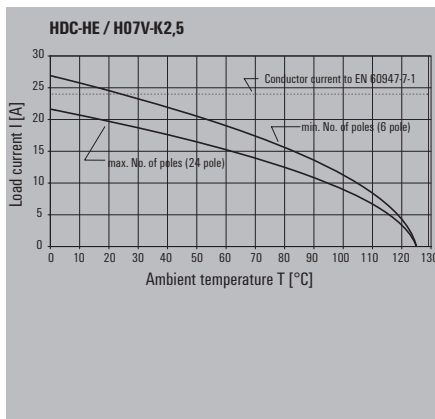
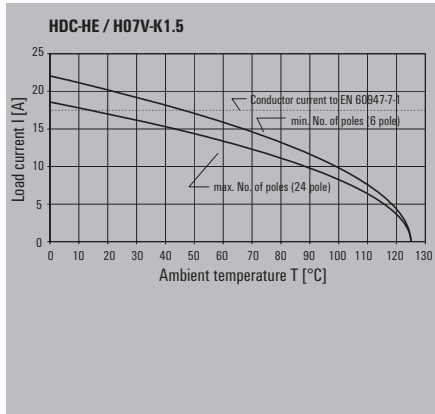
* The HE 10 inserts are included in the ISO 23570 as motor terminal connectors.
** For screw, crimp, and PUSH IN connections

Overview

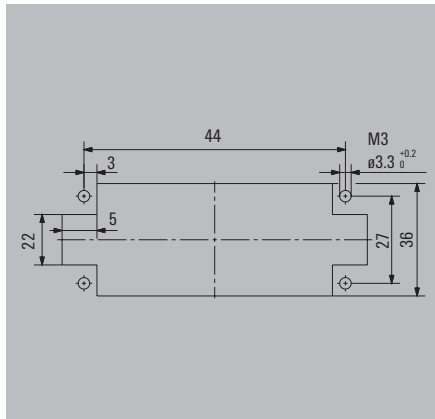
		Size	Rated voltage	Rated current	No. of poles	Tension clamp connection	Screw conn. with wire guard spring	Crimp connection	PUSH IN connection	Page
		3	500 V	24 A	6 + ⊕	•	•	•	•	B.20
		4	500 V	16 A	10 + ⊕	•	•	•	•	B.22
		6	500 V	16 A	16 + ⊕	•	•	•	•	B.24
		8	500 V	16 A	24 + ⊕	•	•	•	•	B.26
		10	500 V	16 A	32 + ⊕	•	•	•	•	B.28
		12	500 V	16 A	48 + ⊕	•	•	•	•	B.30

500 V, 24 A, size 3

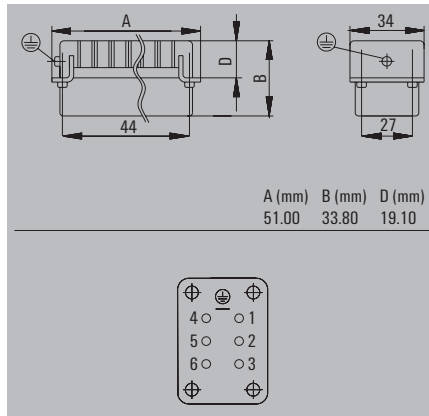
6 + ⊕



Installation cut-out

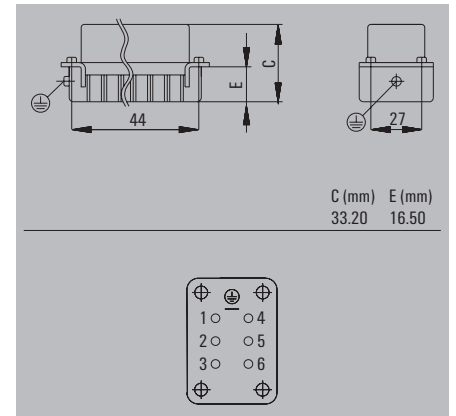


Male



A (mm) B (mm) D (mm)
51.00 33.80 19.10

Female



C (mm) E (mm)
33.20 16.50

Ordering data

Type of connection	Type	Qty.	Order No.
Tension clamp conn.	HDC HE 6 MT	1	1745820000
Screw connection	HDC HE 6 MS	1	1200000000
PUSH IN	HDC HE 6 MP	1	1873530000
Crimp connection	HDC HE 6 MC	1	1200400000

Ordering data

Type of connection	Type	Qty.	Order No.
Tension clamp conn.	HDC HE 6 FT	1	1745760000
Screw connection	HDC HE 6 FS	1	1200200000
PUSH IN	HDC HE 6 FP	1	1873520000
Crimp connection	HDC HE 6 FC	1	1201000000

Accessories

Type	Qty.	Order No.
Crimp contacts, male - gold		
HDC-C-HE-SM0.5AU	100	1651420000
HDC-C-HE-SM0.75-1.00AU	100	1651430000
HDC-C-HE-SM1.5AU	100	1651440000
HDC-C-HE-SM2.5AU	100	1651450000
HDC-C-HE-SM4.0AU	100	1651460000
Crimp contacts, male - silver		
HDC-C-HE-SM0.5AG	100	1200500000
HDC-C-HE-SM0.75-1.00AG	100	1200600000
HDC-C-HE-SM1.5AG	100	1200700000
HDC-C-HE-SM2.5AG	100	1200800000
HDC-C-HE-SM4.0AG	100	1200900000
Tools		
CTX CM 1.6/2.5	1	9018490000
Removal Tool HE	1	1866750000

Accessories

Type	Qty.	Order No.
Crimp contacts, female - gold		
HDC-C-HE-BM0.5AU	100	1651470000
HDC-C-HE-BM0.75-1.00AU	100	1651480000
HDC-C-HE-BM1.5AU	100	1651490000
HDC-C-HE-BM2.5AU	100	1651500000
HDC-C-HE-BM4.0AU	100	1651510000
Crimp contacts, female - silver		
HDC-C-HE-BM0.5AG	100	1201100000
HDC-C-HE-BM0.75-1.00AG	100	1201200000
HDC-C-HE-BM1.5AG	100	1201300000
HDC-C-HE-BM2.5AG	100	1201400000
HDC-C-HE-BM4.0AG	100	1201500000
Tools		
CTX CM 1.6/2.5	1	9018490000
Removal Tool HE	1	1866750000

Housing selection RockStar® IP65
Size 3



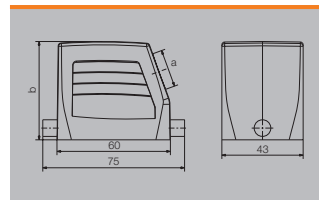
For additional housings, refer to
Chapter E for IP65 / Chapter F for IP68

Hood

Plug housing, cable entry sideways



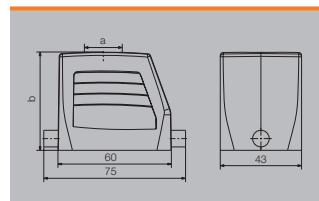
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		52	HDC 06B TSLU 1M20G	1788100000
M 25	w. threading		52	HDC 06B TSLU 1M25G	1788090000
M 25	w. threading		72	HDC 16D TSLU 1M25G	1787480000



Plug housing, cable entry at top



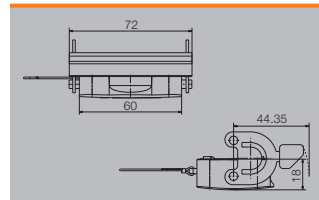
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		52	HDC 06B TOLU 1M20G	1788120000
M 25	w. threading		52	HDC 06B TOLU 1M25G	1788110000
M 25	w. threading		72	HDC 16D TOLU 1M25G	1787500000
M 32	w. threading		72	HDC 16D TOLU 1M32G	1787490000



Cover



Version	Type	Order No.
For hoods (upper parts of housings)	HDC 06B DMOL 1LB	1665210000

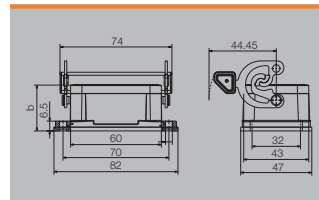


Base

Bulkhead housing



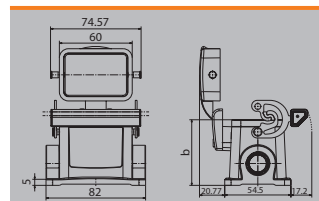
Version	Cover	b (mm)	Type	Order No.
		29	HDC 06B ALU	1202100000
	with cover	47	HDC 06B ADLU	1202500000



Base housing



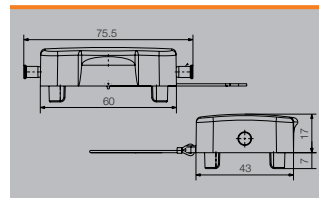
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		54	HDC 06B SLU 2M20G	1788140000
M 20	w. threading	with cover	72	HDC 06B SDLU 2M20G	1788170000
M 25	w. threading		54	HDC 06B SLU 2M25G	1788130000
M 25	w. threading	with cover	72	HDC 06B SDLU 2M25G	1788160000



Cover

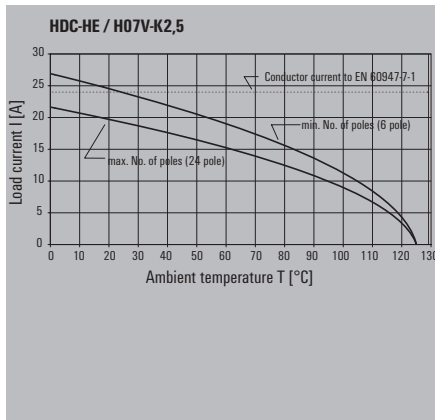
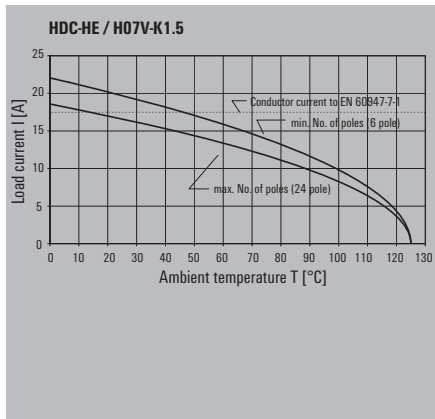


Version	Type	Order No.
For bases (lower parts of housings)	HDC 06B DDDL 2B0	1665200000

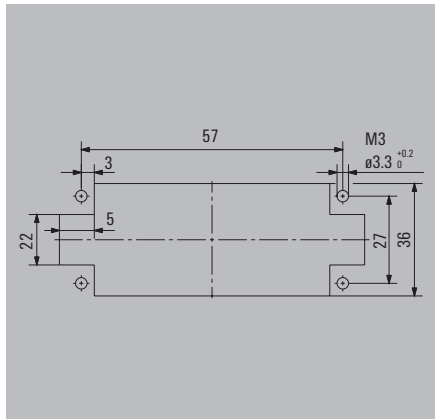


500 V, 16 A, size 4

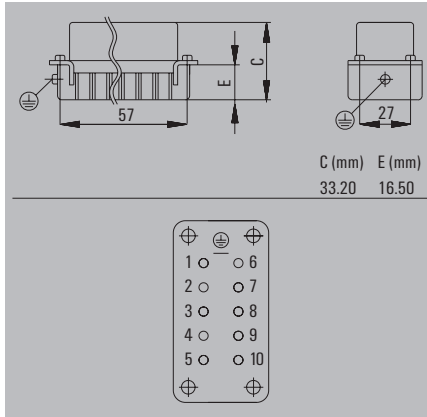
10 + ⊕



Installation cut-out



Male



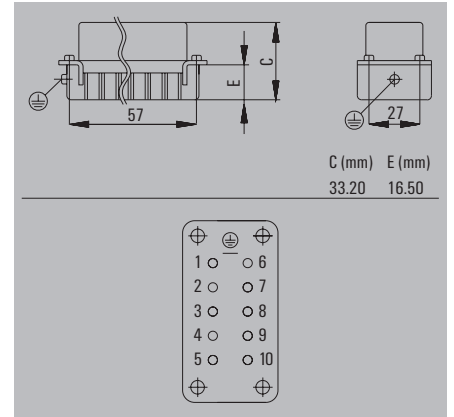
Ordering data

Type of connection	Type	Qty.	Order No.
Tension clamp conn.	HDC HE 10 MT	1	1745830000
Screw connection	HDC HE 10 MS	1	1203900000
PUSH IN	HDC HE 10 MP	1	1873550000
Crimp connection	HDC HE 10 MC	1	1204300000

Accessories

Type	Qty.	Order No.
Crimp contacts, male - gold		
HDC-C-HE-SM0.5AU	100	1651420000
HDC-C-HE-SM0.75-1.00AU	100	1651430000
HDC-C-HE-SM1.5AU	100	1651440000
HDC-C-HE-SM2.5AU	100	1651450000
HDC-C-HE-SM4.0AU	100	1651460000
Crimp contacts, male - silver		
HDC-C-HE-SM0.5AG	100	1200500000
HDC-C-HE-SM0.75-1.00AG	100	1200600000
HDC-C-HE-SM1.5AG	100	1200700000
HDC-C-HE-SM2.5AG	100	1200800000
HDC-C-HE-SM4.0AG	100	1200900000
Tools		
CTX CM 1.6/2.5	1	9018490000
Removal Tool HE	1	1866750000

Female



Ordering data

Type of connection	Type	Qty.	Order No.
Tension clamp conn.	HDC HE 10 FT	1	1745770000
Screw connection	HDC HE 10 FS	1	1204100000
PUSH IN	HDC HE 10 FP	1	1873540000
Crimp connection	HDC HE 10 FC	1	1204400000

Accessories

Type	Qty.	Order No.
Crimp contacts, female - gold		
HDC-C-HE-BM0.5AU	100	1651470000
HDC-C-HE-BM0.75-1.00AU	100	1651480000
HDC-C-HE-BM1.5AU	100	1651490000
HDC-C-HE-BM2.5AU	100	1651500000
HDC-C-HE-BM4.0AU	100	1651510000
Crimp contacts, female - silver		
HDC-C-HE-BM0.5AG	100	1201100000
HDC-C-HE-BM0.75-1.00AG	100	1201200000
HDC-C-HE-BM1.5AG	100	1201300000
HDC-C-HE-BM2.5AG	100	1201400000
HDC-C-HE-BM4.0AG	100	1201500000
Tools		
CTX CM 1.6/2.5	1	9018490000
Removal Tool HE	1	1866750000

Housing selection RockStar® IP65
Size 4

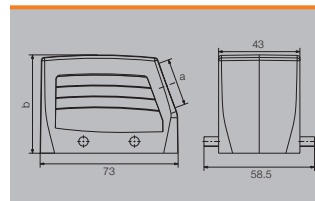


For additional housings, refer to
Chapter E for IP65 / Chapter F for IP68

Plug housing, cable entry sideways



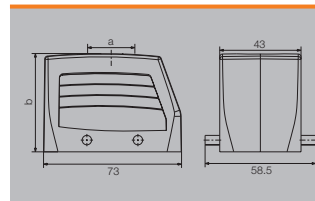
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		52	HDC 10B TSBU 1M20G	1787560000
M 25	w. threading		52	HDC 10B TSBU 1M25G	1787550000
M 25	w. threading		72	HDC 24D TSBU 1M25G	1787240000
M 32	w. threading		72	HDC 24D TSBU 1M32G	1787230000



Plug housing, cable entry at top



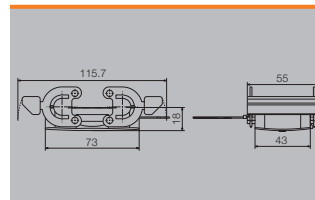
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		52	HDC 10B TOBU 1M20G	1787600000
M 25	w. threading		52	HDC 10B TOBU 1M25G	1787590000
M 25	w. threading		72	HDC 24D TOBU 1M25G	1787300000
M 32	w. threading		72	HDC 24D TOBU 1M32G	1787290000



Cover



Version	Type	Order No.
For hoods (upper parts of housings)	HDC 10B DMDQ 2QB	1665240000

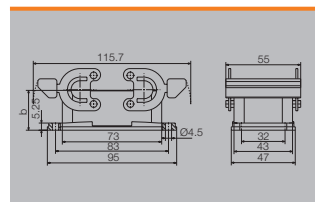


Base

Bulkhead housing



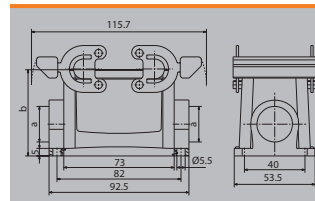
Version	Cover	b (mm)	Type	Order No.
		29.3	HDC 10B ABU	1205000000



Base housing



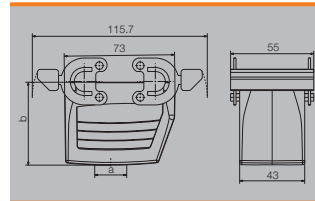
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		57	HDC 10B SBU 2M20G	1787640000
M 25	w. threading		57	HDC 10B SBU 2M25G	1787630000



Coupling housing



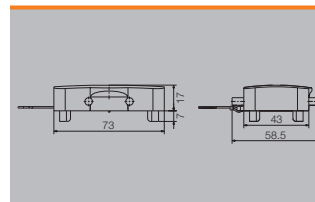
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		55	HDC 10B KBU 1M20G	1787720000



Cover



Version	Type	Order No.
For bases (lower parts of housings)	HDC 10B DDDQ 4B0	1665230000

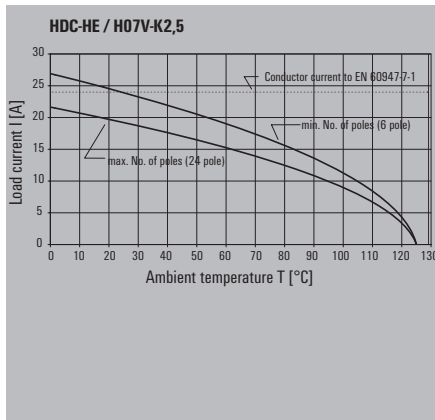
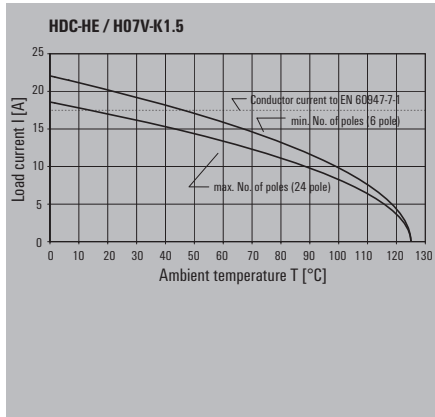


RockStar® inserts

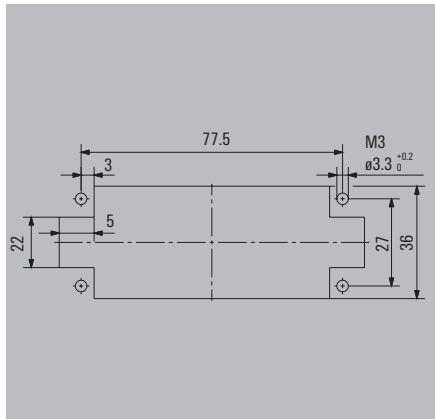
B

500 V, 16 A, size 6

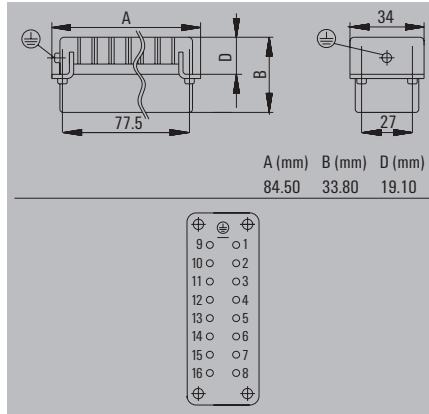
16 + ⊥



Installation cut-out



Male



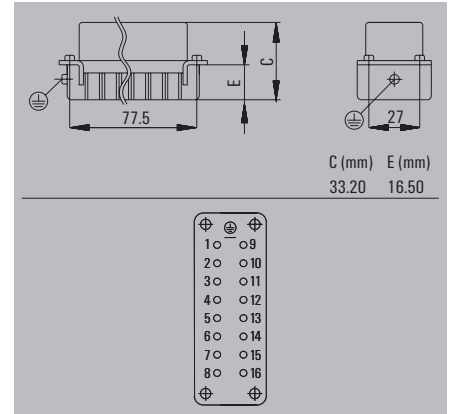
Ordering data

Type of connection	Type	Qty.	Order No.
Tension clamp conn.	HDC HE 16 MT	1	1745840000
Screw connection	HDC HE 16 MS	1	1207500000
PUSH IN	HDC HE 16 MP	1	1873570000
Crimp connection	HDC HE 16 MC	1	1207900000

Accessories

Type	Qty.	Order No.
Crimp contacts, male - gold		
HDC-C-HE-SM0.5AU	100	1651420000
HDC-C-HE-SM0.75-1.00AU	100	1651430000
HDC-C-HE-SM1.5AU	100	1651440000
HDC-C-HE-SM2.5AU	100	1651450000
HDC-C-HE-SM4.0AU	100	1651460000
Crimp contacts, male - silver		
HDC-C-HE-SM0.5AG	100	1200500000
HDC-C-HE-SM0.75-1.00AG	100	1200600000
HDC-C-HE-SM1.5AG	100	1200700000
HDC-C-HE-SM2.5AG	100	1200800000
HDC-C-HE-SM4.0AG	100	1200900000
Tools		
CTX CM 1.6/2.5	1	9018490000
Removal Tool HE	1	1866750000

Female



Ordering data

Type of connection	Type	Qty.	Order No.
Tension clamp conn.	HDC HE 16 FT	1	1745780000
Screw connection	HDC HE 16 FS	1	1207700000
PUSH IN	HDC HE 16 FP	1	1873560000
Crimp connection	HDC HE 16 FC	1	1208000000

Accessories

Type	Qty.	Order No.
Crimp contacts, female - gold		
HDC-C-HE-BM0.5AU	100	1651470000
HDC-C-HE-BM0.75-1.00AU	100	1651480000
HDC-C-HE-BM1.5AU	100	1651490000
HDC-C-HE-BM2.5AU	100	1651500000
HDC-C-HE-BM4.0AU	100	1651510000
Crimp contacts, female - silver		
HDC-C-HE-BM0.5AG	100	1201100000
HDC-C-HE-BM0.75-1.00AG	100	1201200000
HDC-C-HE-BM1.5AG	100	1201300000
HDC-C-HE-BM2.5AG	100	1201400000
HDC-C-HE-BM4.0AG	100	1201500000
Tools		
CTX CM 1.6/2.5	1	9018490000
Removal Tool HE	1	1866750000

Housing selection RockStar® IP65
Size 6



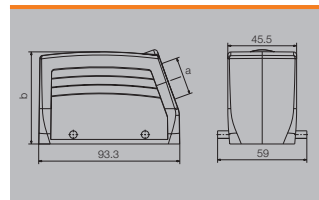
For additional housings, refer to
Chapter E for IP65 / Chapter F for IP68

Hood

Plug housing, cable entry sideways



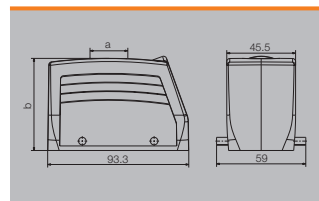
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 16B TSBU 1M25G	1788180000
M 25	w. threading		76	HDC 40D TSBU 1M25G	1787010000
M 32	w. threading		76	HDC 40D TSBU 1M32G	1787000000



Plug housing, cable entry at top



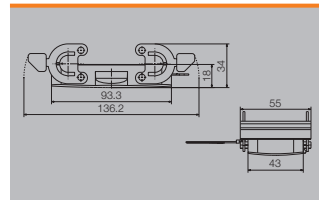
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 16B TOBU 1M25G	1788210000
M 25	w. threading		76	HDC 40D TOBU 1M25G	1787070000
M 32	w. threading		76	HDC 40D TOBU 1M32G	1787060000



Cover



Version	Type	Order No.
For hoods (upper parts of housings)	HDC 16B DMDQ 2QB	1665270000

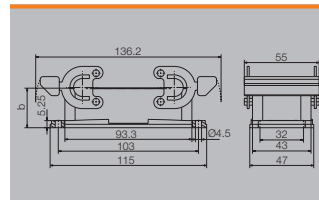


Base

Bulkhead housing



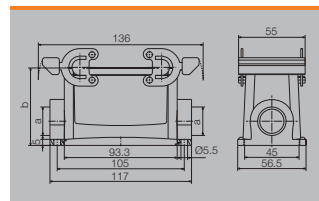
Version	Cover	b (mm)	Type	Order No.
		29	HDC 16B ABU	1208600000



Base housing



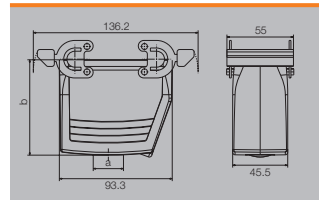
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		64	HDC 16B SBU 2M25G	1788240000
M 25	w. threading		84	HDC 40D SBU 2M25G	1787120000
M 32	w. threading		84	HDC 40D SBU 2M32G	1787110000



Coupling housing



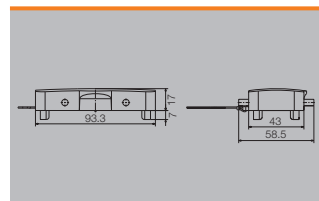
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		79	HDC 40D KBU 1M25G	1787200000
M 32	w. threading		79	HDC 40D KBU 1M32G	1787190000



Cover

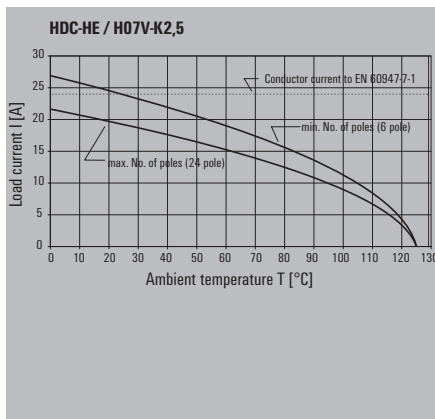
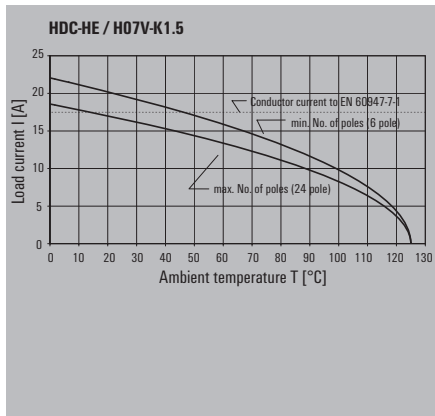


Version	Type	Order No.
For bases (lower parts of housings)	HDC 16B DDDQ 4B0	1665260000

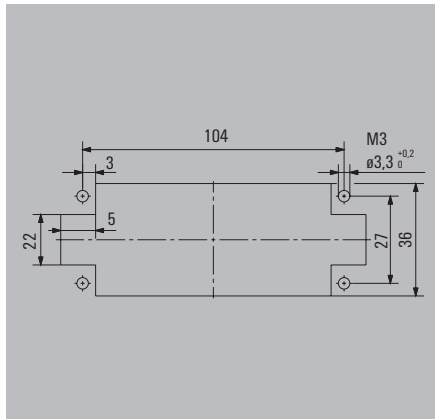


500 V, 16 A, size 8

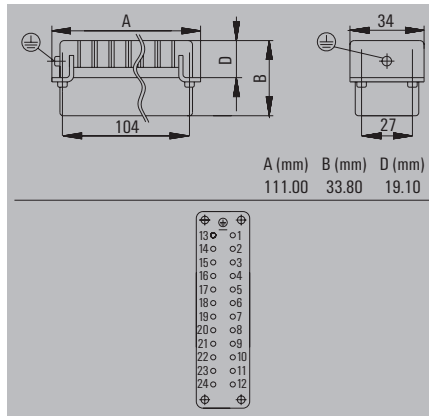
24 + ⊥



Installation cut-out



Male



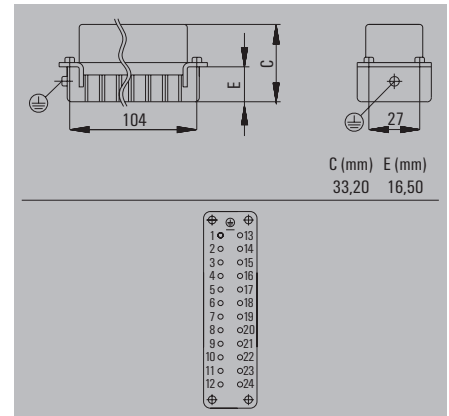
Ordering data

Type of connection	Type	Qty.	Order No.
Tension clamp conn.	HDC HE 24 MT	1	1745850000
Screw connection	HDC HE 24 MS	1	1211100000
PUSH IN	HDC HE 24 MP	1	1873590000
Crimp connection	HDC HE 24 MC	1	1211500000

Accessories

Type	Qty.	Order No.
Crimp contacts, male - gold		
HDC-C-HE-SM0.5AU	100	1651420000
HDC-C-HE-SM0.75-1.00AU	100	1651430000
HDC-C-HE-SM1.5AU	100	1651440000
HDC-C-HE-SM2.5AU	100	1651450000
HDC-C-HE-SM4.0AU	100	1651460000
Crimp contacts, male - silver		
HDC-C-HE-SM0.5AG	100	1200500000
HDC-C-HE-SM0.75-1.00AG	100	1200600000
HDC-C-HE-SM1.5AG	100	1200700000
HDC-C-HE-SM2.5AG	100	1200800000
HDC-C-HE-SM4.0AG	100	1200900000
Tools		
CTX CM 1.6/2.5	1	9018490000
Removal Tool HE	1	1866750000

Female



Ordering data

Type of connection	Type	Qty.	Order No.
Tension clamp conn.	HDC HE 24 FT	1	1745790000
Screw connection	HDC HE 24 FS	1	1211300000
PUSH IN	HDC HE 24 FP	1	1873580000
Crimp connection	HDC HE 24 FC	1	1211600000

Accessories

Type	Qty.	Order No.
Crimp contacts, female - gold		
HDC-C-HE-BM0.5AU	100	1651470000
HDC-C-HE-BM0.75-1.00AU	100	1651480000
HDC-C-HE-BM1.5AU	100	1651490000
HDC-C-HE-BM2.5AU	100	1651500000
HDC-C-HE-BM4.0AU	100	1651510000
Crimp contacts, female - silver		
HDC-C-HE-BM0.5AG	100	1201100000
HDC-C-HE-BM0.75-1.00AG	100	1201200000
HDC-C-HE-BM1.5AG	100	1201300000
HDC-C-HE-BM2.5AG	100	1201400000
HDC-C-HE-BM4.0AG	100	1201500000
Tools		
CTX CM 1.6/2.5	1	9018490000
Removal Tool HE	1	1866750000

Housing selection RockStar® IP65
Size 8



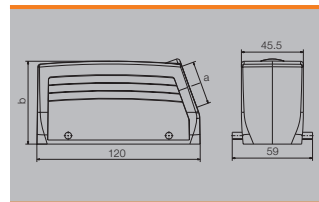
For additional housings, refer to
Chapter E for IP65 / Chapter F for IP68

Hood

Plug housing, cable entry sideways



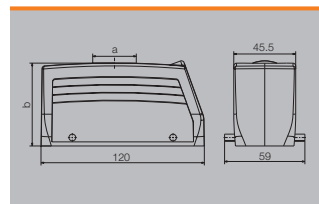
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 24B TSBU 1M25G	1787760000
M 25	w. threading		76	HDC 64D TSBU 1M25G	1786780000
M 32	w. threading		61	HDC 24B TSBU 1M32G	1787750000
M 32	w. threading		76	HDC 64D TSBU 1M32G	1786770000



Plug housing, cable entry at top



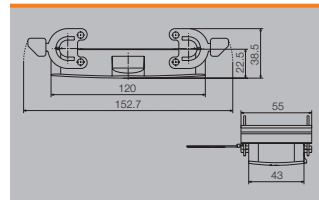
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 24B TOBU 1M25G	1787820000
M 32	w. threading		61	HDC 24B TOBU 1M32G	1787810000
M 32	w. threading		76	HDC 64D TOBU 1M32G	1786830000



Cover



Version	Type	Order No.
For hoods (upper parts of housings)	HDC 24B DMDQ 2QB	1665640000

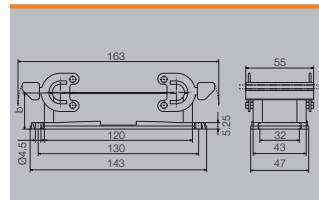


Base

Bulkhead housing



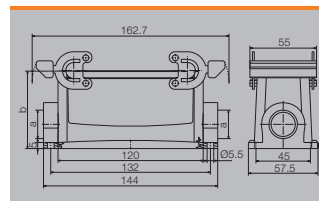
Version	Cover	b (mm)	Type	Order No.
		29.3	HDC 24B ABU	1212400000



Base housing



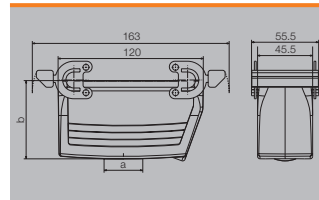
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		64	HDC 24B SBU 2M25G	1787870000
M 25	w. threading		84	HDC 64D SBU 2M25G	1786890000
M 32	w. threading		84	HDC 64D SBU 2M32G	1786880000



Coupling housing



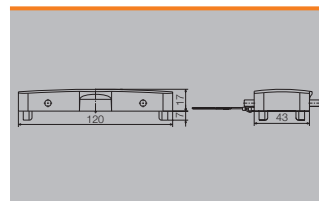
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		65	HDC 24B KBU 1M25G	1787920000
M 32	w. threading		79	HDC 64D KBU 1M32G	1786960000



Cover

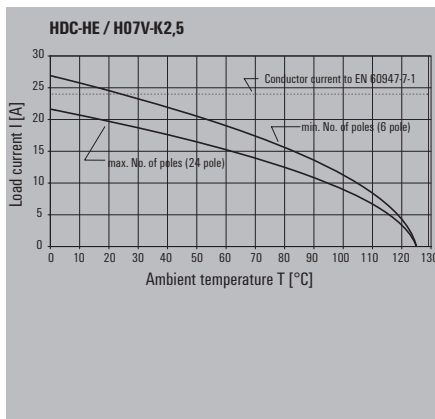
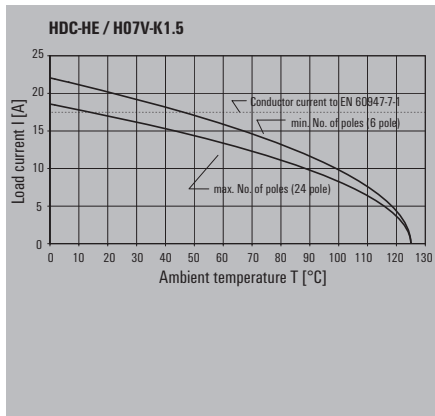


Version	Type	Order No.
For bases (lower parts of housings)	HDC 24B DDDQ 4B0	1665630000

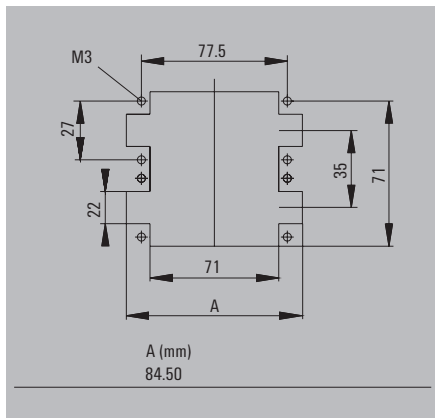


500 V, 16 A, size 10

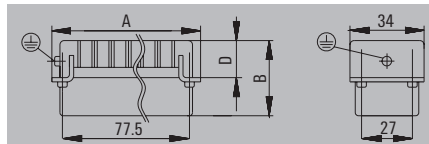
32 + ⊕



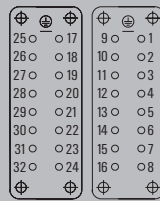
Installation cut-out



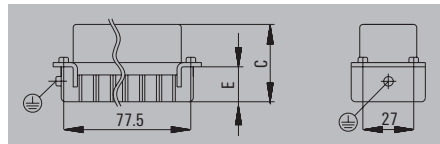
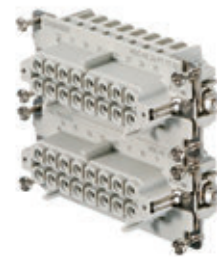
Male



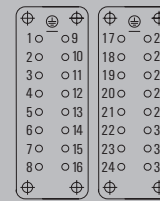
A (mm) B (mm) D (mm)
84.50 33.80 19.10



Female



C (mm) E (mm)
33.20 16.50



Ordering data

Type of connection	Type	Qty.	Order No.
Tension clamp conn.	HDC HE 16 MT	1	1745840000
Tension clamp conn.	HDC HE 16 MT 17-32	1	1745860000
Screw connection	HDC HE 16 MS	1	1207500000
Screw connection	HDC HE 16 MS 17-32	1	1215700000
PUSH IN	HDC HE 16 MP	1	1873570000
PUSH IN	HDC HE 16 MP 17-32	1	1875800000
Crimp connection	HDC HE 16 MC	1	1207900000
Crimp connection	HDC HE 16 MC 17-32	1	1216500000

Accessories

Type	Qty.	Order No.
Crimp contacts, male - gold		
HDC-C-HE-SM0.5AU	100	1651420000
HDC-C-HE-SM0.75-1.00AU	100	1651430000
HDC-C-HE-SM1.5AU	100	1651440000
HDC-C-HE-SM2.5AU	100	1651450000
HDC-C-HE-SM4.0AU	100	1651460000
Crimp contacts, male - silver		
HDC-C-HE-SM0.5AG	100	1200500000
HDC-C-HE-SM0.75-1.00AG	100	1200600000
HDC-C-HE-SM1.5AG	100	1200700000
HDC-C-HE-SM2.5AG	100	1200800000
HDC-C-HE-SM4.0AG	100	1200900000
Tools		
CTX CM 1.6/2.5	1	9018490000
Removal Tool HE	1	1866750000

Ordering data

Type of connection	Type	Qty.	Order No.
Tension clamp conn.	HDC HE 16 FT	1	1745780000
Tension clamp conn.	HDC HE 16 FT 17-32	1	1745800000
Screw connection	HDC HE 16 FS	1	1207700000
Screw connection	HDC HE 16 FS 17-32	1	1216100000
PUSH IN	HDC HE 16 FP	1	1873560000
PUSH IN	HDC HE 16 FP 17-32	1	1875740000
Crimp connection	HDC HE 16 FC	1	1208000000
Crimp connection	HDC HE 16 FC 17-32	1	1216700000

Accessories

Type	Qty.	Order No.
Crimp contacts, female - gold		
HDC-C-HE-BM0.5AU	100	1651470000
HDC-C-HE-BM0.75-1.00AU	100	1651480000
HDC-C-HE-BM1.5AU	100	1651490000
HDC-C-HE-BM2.5AU	100	1651500000
HDC-C-HE-BM4.0AU	100	1651510000
Crimp contacts, female - silver		
HDC-C-HE-BM0.5AG	100	1201100000
HDC-C-HE-BM0.75-1.00AG	100	1201200000
HDC-C-HE-BM1.5AG	100	1201300000
HDC-C-HE-BM2.5AG	100	1201400000
HDC-C-HE-BM4.0AG	100	1201500000
Tools		
CTX CM 1.6/2.5	1	9018490000
Removal Tool HE	1	1866750000

Housing selection RockStar® IP65
Size 10



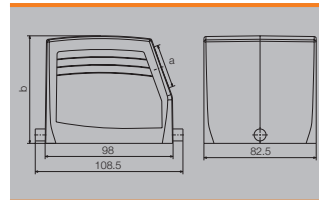
For additional housings, refer to chapter E for IP65

Hood

Plug housing, cable entry sideways



a	Version	Cover	b (mm)	Type	Order No.
M 32	w. threading		79	HDC 32B TSLU 1M32G	1788420000

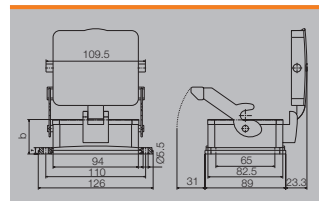


Base

Bulkhead housing



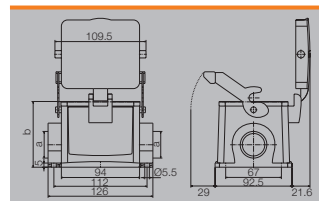
Version	Cover	b (mm)	Type	Order No.
		38	HDC 32B ALU	1219500000
	with cover	55	HDC 32B ADLU	1219800000



Base housing



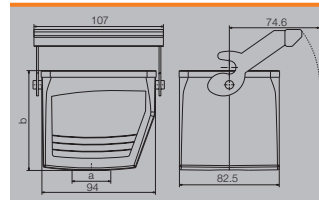
a	Version	Cover	b (mm)	Type	Order No.
M 32	w. threading		79	HDC 32B SLU 2M32G	1788470000
M 32	w. threading	with cover	96	HDC 32B SDLU 2M32G	1788490000



Coupling housing

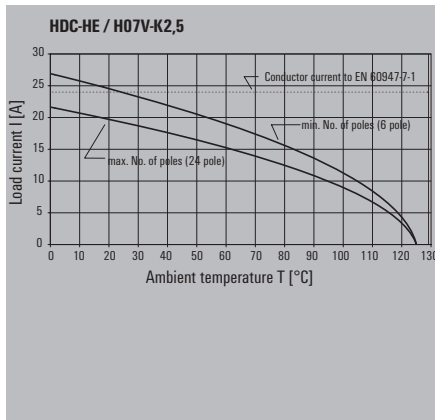
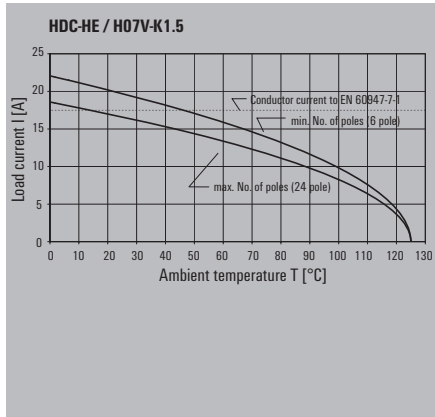


a	Version	Cover	b (mm)	Type	Order No.
M 32	w. threading		83	HDC 32B KLU 1M32G	1788500000

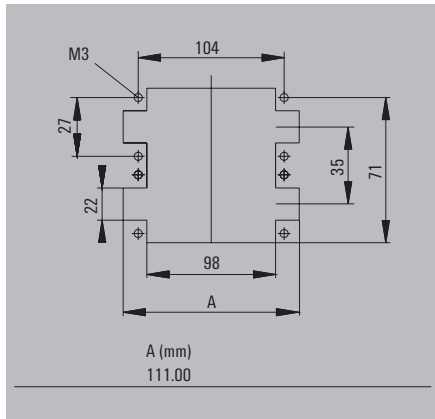


500 V, 16 A, size 12

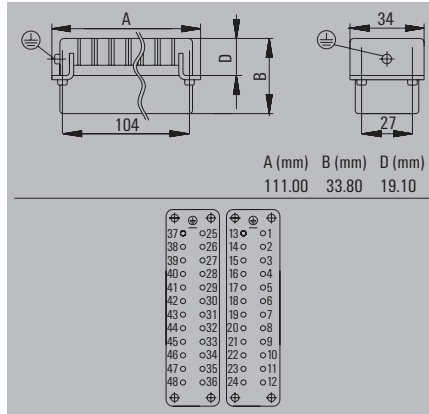
48 + ⊕



Installation cut-out



Male



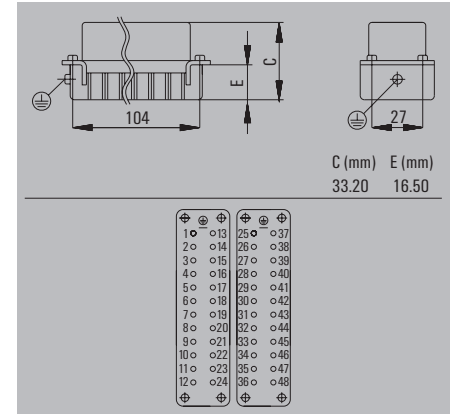
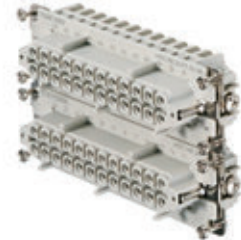
Ordering data

Type of connection	Type	Qty.	Order No.
Tension clamp conn.	HDC HE 24 MT	1	1745850000
Tension clamp conn.	HDC HE 24 MT 25-48	1	1745870000
Screw connection	HDC HE 24 MS	1	1211100000
Screw connection	HDC HE 24 MS 25-48	1	1220800000
PUSH IN	HDC HE 24 MP	1	1873590000
PUSH IN	HDC HE 24 MP 25-48	1	1875890000
Crimp connection	HDC HE 24 MC	1	1211500000
Crimp connection	HDC HE 24 MC 25-48	1	1226400000

Accessories

Type	Qty.	Order No.
Crimp contacts, male - gold		
HDC-C-HE-SM0.5AU	100	1651420000
HDC-C-HE-SM0.75-1.00AU	100	1651430000
HDC-C-HE-SM1.5AU	100	1651440000
HDC-C-HE-SM2.5AU	100	1651450000
HDC-C-HE-SM4.0AU	100	1651460000
Crimp contacts, male - silver		
HDC-C-HE-SM0.5AG	100	1200500000
HDC-C-HE-SM0.75-1.00AG	100	1200600000
HDC-C-HE-SM1.5AG	100	1200700000
HDC-C-HE-SM2.5AG	100	1200800000
HDC-C-HE-SM4.0AG	100	1200900000
Tools		
CTX CM 1.6/2.5	1	9018490000
Removal Tool HE	1	1866750000

Female



Ordering data

Type of connection	Type	Qty.	Order No.
Tension clamp conn.	HDC HE 24 FT	1	1745790000
Tension clamp conn.	HDC HE 24 FT 25-48	1	1745810000
Screw connection	HDC HE 24 FS	1	1211300000
Screw connection	HDC HE 24 FS 25-48	1	1221200000
PUSH IN	HDC HE 24 FP	1	1873580000
PUSH IN	HDC HE 24 FP 25-48	1	1875850000
Crimp connection	HDC HE 24 FC	1	1211600000
Crimp connection	HDC HE 24 FC 25-48	1	1226600000

Accessories

Type	Qty.	Order No.
Crimp contacts, female - gold		
HDC-C-HE-BM0.5AU	100	1651470000
HDC-C-HE-BM0.75-1.00AU	100	1651480000
HDC-C-HE-BM1.5AU	100	1651490000
HDC-C-HE-BM2.5AU	100	1651500000
HDC-C-HE-BM4.0AU	100	1651510000
Crimp contacts, female - silver		
HDC-C-HE-BM0.5AG	100	1201100000
HDC-C-HE-BM0.75-1.00AG	100	1201200000
HDC-C-HE-BM1.5AG	100	1201300000
HDC-C-HE-BM2.5AG	100	1201400000
HDC-C-HE-BM4.0AG	100	1201500000
Tools		
CTX CM 1.6/2.5	1	9018490000
Removal Tool HE	1	1866750000

Housing selection RockStar® IP65
Size 12



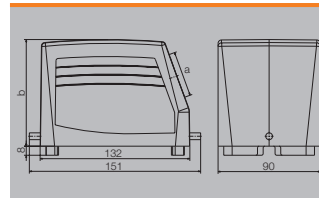
For additional housings, refer to chapter E for IP65

Hood

Plug housing, cable entry sideways



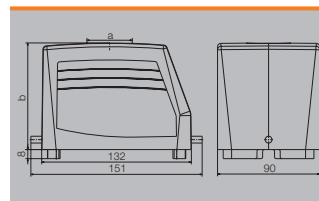
a	Version	Cover	b (mm)	Type	Order No.
M 32	w. threading		94	HDC 48B TSLU 1M32G	1788320000
M 40	w. threading		94	HDC 48B TSLU 1M40G	1788310000
M 50	w. threading		94	HDC 48B TSLU 1M50G	1788330000



Plug housing, cable entry at top



a	Version	Cover	b (mm)	Type	Order No.
M 32	w. threading		94	HDC 48B TOLU 1M32G	1788350000
M 50	w. threading		94	HDC 48B TOLU 1M50G	1788330000

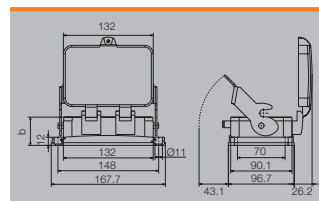


Base

Bulkhead housing



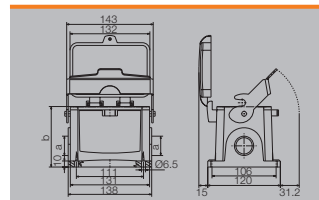
Version	Cover	b (mm)	Type	Order No.
	with cover	62	HDC 48B ADLU	1222900000



Base housing

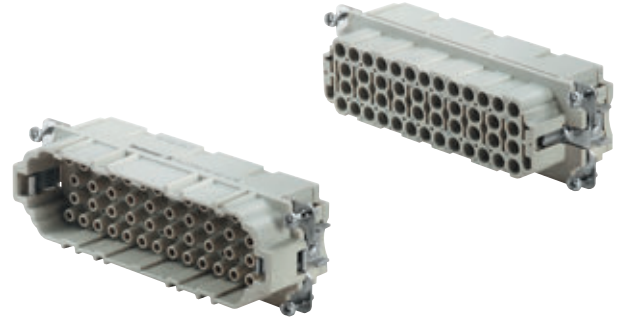


a	Version	Cover	b (mm)	Type	Order No.
M 32	w. threading		100	HDC 48B SLU 2M32G	1788370000
M 32	w. threading	with cover	120	HDC 48B SDLU 2M32G	1788390000
M 40	w. threading		100	HDC 48B SLU 2M40G	1788360000



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	UL/CSA
Inserts	
No. of poles	10, 18, 32, 46, 64 (+ PE)
Rated voltage	500 V
Rated voltage to UL/CSA	600 V
Rated current	16 A
Rated impulse withstand voltage	6 kV
Pollution severity	3 (630 V / 6 kV / 2)
Insulation resistance	≥ 10 ¹⁰ Ω
Material	Glass-fibre reinforced PC (in UL list and approved for railway applications)
Temperature range	-40 °C to +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	≤ 2 mΩ
Contacts/Material	
Contacts	Copper alloy
Surface	Passivated silver, or gold-plated
Crimp connection	
- Flexible conductor connection	0.5 - 4 mm ² (AWG 20 - 12)
- Stripping length	7.5 mm
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 PZ1

Note:

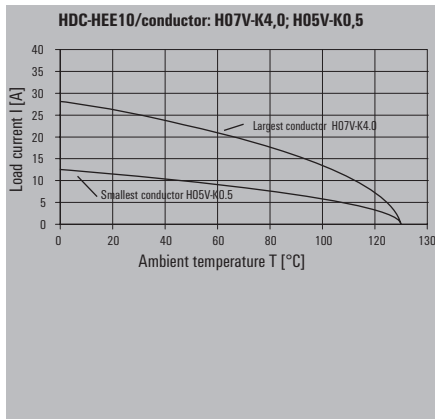
When used properly and as designated, the listed connectors may not be connected or disconnected if there is a live voltage or load!

Overview

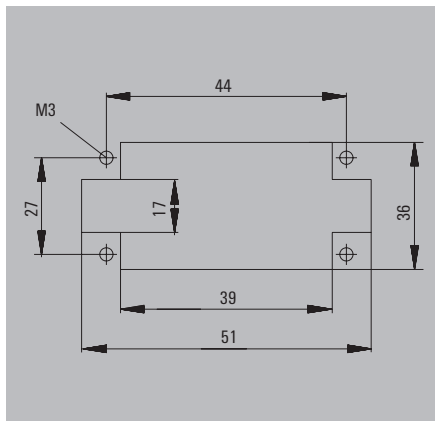
		Size	Rated voltage	Rated current	No. of poles	Tension clamp connection	TOP connection	Screw conn. with wire guard spring	Crimp connection	PUSH IN connection	Page
		3	500 V	16 A	10 + ⊕				•		B.34
		4	500 V	16 A	18 + ⊕				•		B.36
		6	500 V	16 A	32 + ⊕				•		B.38
		6	500 V	16 A	40 + ⊕				•		B.40
		8	500 V	16 A	46 + ⊕				•		B.42
		10	500 V	16 A	64 + ⊕				•		B.44

500 V, 16 A, size 3

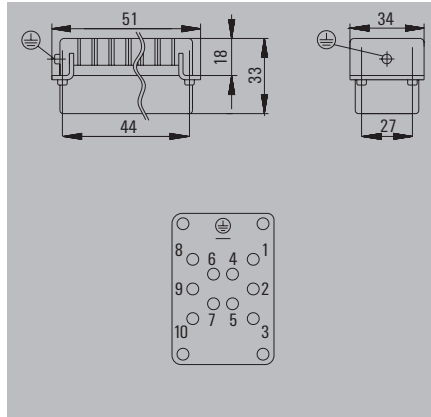
10 + ⊕



Installation cut-out



Male



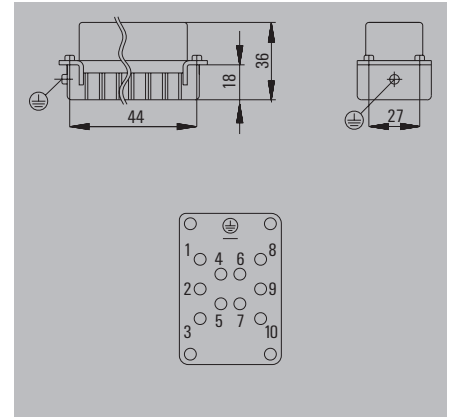
Ordering data

Type of connection	Type	Qty.	Order No.
Crimp connection	HDC HEE 10 MC	1	1826830000

Accessories

Type	Qty.	Order No.
Crimp contacts, male - gold		
HDC-C-HE-SM0.5AU	100	1651420000
HDC-C-HE-SM0.75-1.00AU	100	1651430000
HDC-C-HE-SM1.5AU	100	1651440000
HDC-C-HE-SM2.5AU	100	1651450000
HDC-C-HE-SM4.0AU	100	1651460000
Crimp contacts, male - silver		
HDC-C-HE-SM0.5AG	100	1200500000
HDC-C-HE-SM0.75-1.00AG	100	1200600000
HDC-C-HE-SM1.5AG	100	1200700000
HDC-C-HE-SM2.5AG	100	1200800000
HDC-C-HE-SM4.0AG	100	1200900000
Tools		
CTX CM 1.6/2.5	1	9018490000
Removal Tool HE	1	1866750000

Female



Ordering data

Type of connection	Type	Qty.	Order No.
Crimp connection	HDC HEE 10 FC	1	1826840000

Accessories

Type	Qty.	Order No.
Crimp contacts, female - gold		
HDC-C-HE-BM0.5AU	100	1651470000
HDC-C-HE-BM0.75-1.00AU	100	1651480000
HDC-C-HE-BM1.5AU	100	1651490000
HDC-C-HE-BM2.5AU	100	1651500000
HDC-C-HE-BM4.0AU	100	1651510000
Crimp contacts, female - silver		
HDC-C-HE-BM0.5AG	100	1201100000
HDC-C-HE-BM0.75-1.00AG	100	1201200000
HDC-C-HE-BM1.5AG	100	1201300000
HDC-C-HE-BM2.5AG	100	1201400000
HDC-C-HE-BM4.0AG	100	1201500000
Tools		
CTX CM 1.6/2.5	1	9018490000
Removal Tool HE	1	1866750000

Housing selection RockStar® IP65
Size 3



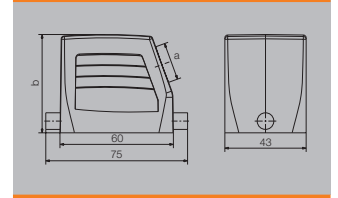
For additional housings, refer to
Chapter E for IP65 / Chapter F for IP68

Hood

Plug housing, cable entry sideways



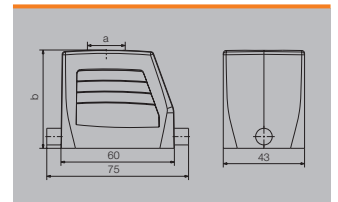
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		52	HDC 06B TSLU 1M20G	1788100000
M 25	w. threading		52	HDC 06B TSLU 1M25G	1788090000
M 25	w. threading		72	HDC 16D TSLU 1M25G	1787480000



Plug housing, cable entry at top



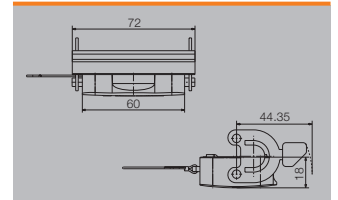
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		52	HDC 06B TOLU 1M20G	1788120000
M 25	w. threading		52	HDC 06B TOLU 1M25G	1788110000
M 25	w. threading		72	HDC 16D TOLU 1M25G	1787500000
M 32	w. threading		72	HDC 16D TOLU 1M32G	1787490000



Cover



Version	Type	Order No.
For hoods (upper parts of housings)	HDC 06B DMOL 1LB	1665210000

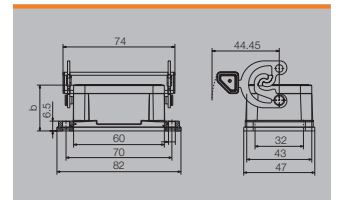


Base

Bulkhead housing



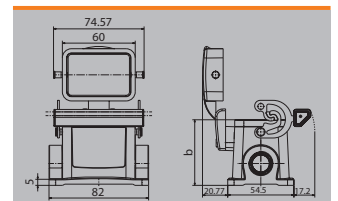
Version	Cover	b (mm)	Type	Order No.
		29	HDC 06B ALU	1202100000
	with cover	47	HDC 06B ADLU	1202500000



Base housing



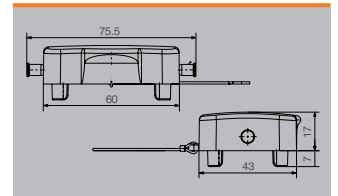
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		54	HDC 06B SLU 2M20G	1788140000
M 20	w. threading	with cover	72	HDC 06B SDLU 2M20G	1788170000
M 25	w. threading		54	HDC 06B SLU 2M25G	1788130000
M 25	w. threading	with cover	72	HDC 06B SDLU 2M25G	1788160000



Cover

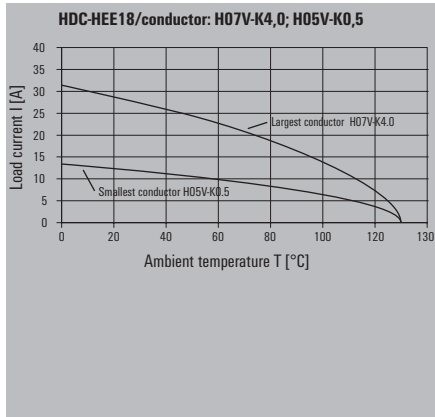


Version	Type	Order No.
For bases (lower parts of housings)	HDC 06B DODL 2B0	1665200000

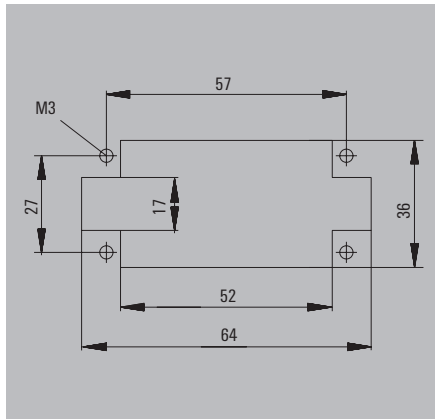


500V, 16 A, size 4

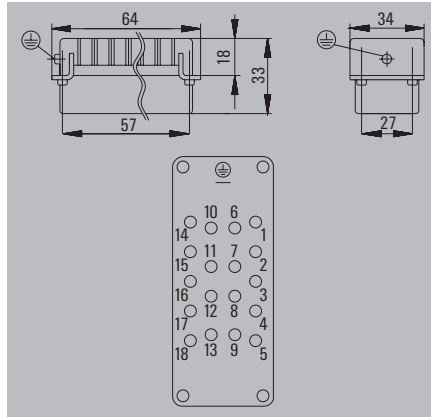
18 + ⊕



Installation cut-out



Male



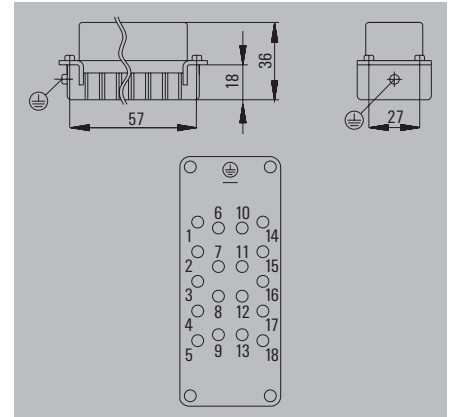
Ordering data

Type of connection	Type	Qty.	Order No.
Crimp connection	HDC HEE 18 MC	1	1826810000

Accessories

Type	Qty.	Order No.
Crimp contacts, male - gold		
HDC-C-HE-SM0.5AU	100	1651420000
HDC-C-HE-SM0.75-1.00AU	100	1651430000
HDC-C-HE-SM1.5AU	100	1651440000
HDC-C-HE-SM2.5AU	100	1651450000
HDC-C-HE-SM4.0AU	100	1651460000
Crimp contacts, male - silver		
HDC-C-HE-SM0.5AG	100	1200500000
HDC-C-HE-SM0.75-1.00AG	100	1200600000
HDC-C-HE-SM1.5AG	100	1200700000
HDC-C-HE-SM2.5AG	100	1200800000
HDC-C-HE-SM4.0AG	100	1200900000
Tools		
CTX CM 1.6/2.5	1	9018490000
Removal Tool HE	1	1866750000

Female



Ordering data

Type of connection	Type	Qty.	Order No.
Crimp connection	HDC HEE 18 FC	1	1826820000

Accessories

Type	Qty.	Order No.
Crimp contacts, female - gold		
HDC-C-HE-BM0.5AU	100	1651470000
HDC-C-HE-BM0.75-1.00AU	100	1651480000
HDC-C-HE-BM1.5AU	100	1651490000
HDC-C-HE-BM2.5AU	100	1651500000
HDC-C-HE-BM4.0AU	100	1651510000
Crimp contacts, female - silver		
HDC-C-HE-BM0.5AG	100	1201100000
HDC-C-HE-BM0.75-1.00AG	100	1201200000
HDC-C-HE-BM1.5AG	100	1201300000
HDC-C-HE-BM2.5AG	100	1201400000
HDC-C-HE-BM4.0AG	100	1201500000
Tools		
CTX CM 1.6/2.5	1	9018490000
Removal Tool HE	1	1866750000

Housing selection RockStar® IP65
Size 4



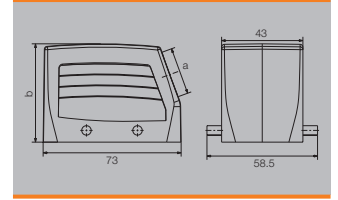
For additional housings, refer to
Chapter E for IP65 / Chapter F for IP68

Hood

Plug housing, cable entry sideways



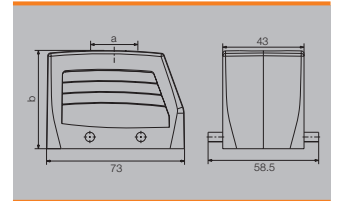
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		52	HDC 10B TSBU 1M20G	1787560000
M 25	w. threading		52	HDC 10B TSBU 1M25G	1787550000
M 25	w. threading		72	HDC 24D TSBU 1M25G	1787240000
M 32	w. threading		72	HDC 24D TSBU 1M32G	1787230000



Plug housing, cable entry at top



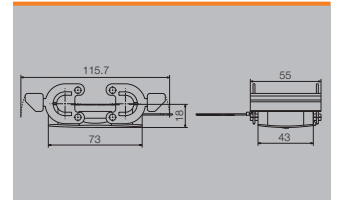
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		52	HDC 10B TOBU 1M20G	1787600000
M 25	w. threading		52	HDC 10B TOBU 1M25G	1787590000
M 25	w. threading		72	HDC 24D TOBU 1M25G	1787300000
M 32	w. threading		72	HDC 24D TOBU 1M32G	1787290000



Cover



Version	Type	Order No.
For hoods (upper parts of housings)	HDC 10B DMDQ 2QB	1665240000

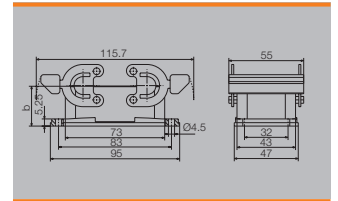


Base

Bulkhead housing



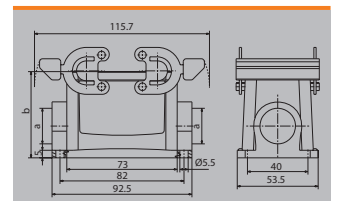
Version	Cover	b (mm)	Type	Order No.
		29.3	HDC 10B ABU	1205000000



Base housing



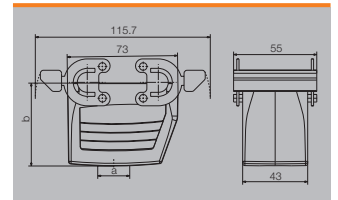
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		57	HDC 10B SBU 2M20G	1787640000
M 25	w. threading		57	HDC 10B SBU 2M25G	1787630000



Coupling housing



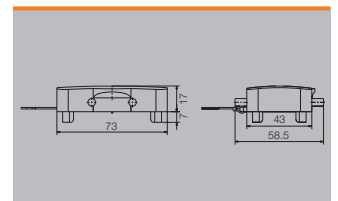
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		55	HDC 10B KBU 1M20G	1787720000



Cover

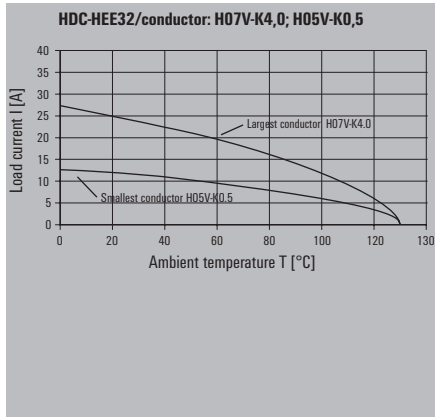


Version	Type	Order No.
For bases (lower parts of housings)	HDC 10B DDDQ 4B0	1665230000

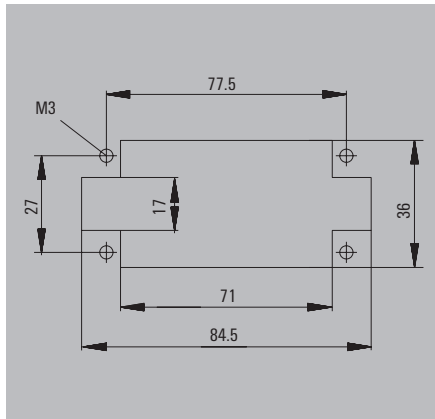


500 V, 16 A, size 6

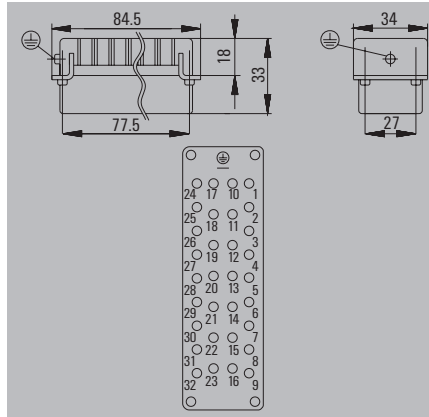
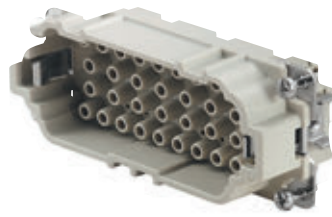
32 + ⊕



Installation cut-out



Male



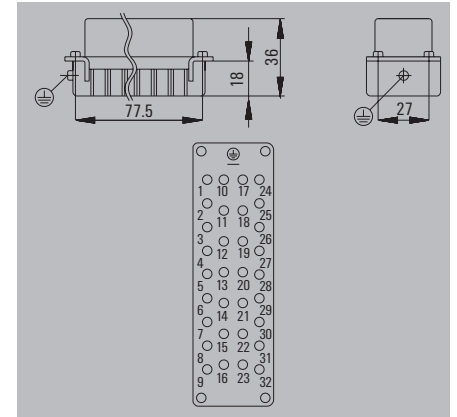
Ordering data

Type of connection	Type	Qty.	Order No.
Crimp connection	HDC HEE 32 MC	1	1826790000

Accessories

Type	Qty.	Order No.
Crimp contacts, male - gold		
HDC-C-HE-SM0.5AU	100	1651420000
HDC-C-HE-SM0.75-1.00AU	100	1651430000
HDC-C-HE-SM1.5AU	100	1651440000
HDC-C-HE-SM2.5AU	100	1651450000
HDC-C-HE-SM4.0AU	100	1651460000
Crimp contacts, male - silver		
HDC-C-HE-SM0.5AG	100	1200500000
HDC-C-HE-SM0.75-1.00AG	100	1200600000
HDC-C-HE-SM1.5AG	100	1200700000
HDC-C-HE-SM2.5AG	100	1200800000
HDC-C-HE-SM4.0AG	100	1200900000
Tools		
CTX CM 1.6/2.5	1	9018490000
Removal Tool HE	1	1866750000

Female



Ordering data

Type of connection	Type	Qty.	Order No.
Crimp connection	HDC HEE 32 FC	1	1826800000

Accessories

Type	Qty.	Order No.
Crimp contacts, female - gold		
HDC-C-HE-BM0.5AU	100	1651470000
HDC-C-HE-BM0.75-1.00AU	100	1651480000
HDC-C-HE-BM1.5AU	100	1651490000
HDC-C-HE-BM2.5AU	100	1651500000
HDC-C-HE-BM4.0AU	100	1651510000
Crimp contacts, female - silver		
HDC-C-HE-BM0.5AG	100	1201100000
HDC-C-HE-BM0.75-1.00AG	100	1201200000
HDC-C-HE-BM1.5AG	100	1201300000
HDC-C-HE-BM2.5AG	100	1201400000
HDC-C-HE-BM4.0AG	100	1201500000
Tools		
CTX CM 1.6/2.5	1	9018490000
Removal Tool HE	1	1866750000

Housing selection RockStar® IP65
Size 6



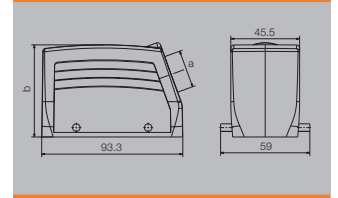
For additional housings, refer to
Chapter E for IP65 / Chapter F for IP68

Hood

Plug housing, cable entry sideways



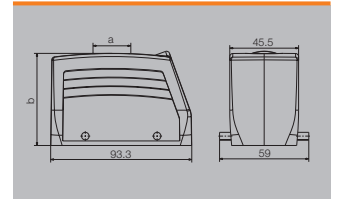
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 16B TSBU 1M25G	1788180000
M 25	w. threading		76	HDC 40D TSBU 1M25G	1787010000
M 32	w. threading		76	HDC 40D TSBU 1M32G	1787000000



Plug housing, cable entry at top



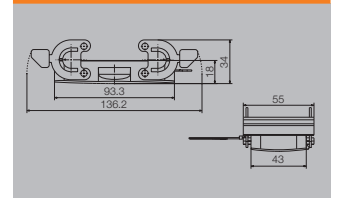
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 16B TOBU 1M25G	1788210000
M 25	w. threading		76	HDC 40D TOBU 1M25G	1787070000
M 32	w. threading		76	HDC 40D TOBU 1M32G	1787060000



Cover



Version	Type	Order No.
For hoods (upper parts of housings)	HDC 16B DMDQ 2QB	1665270000

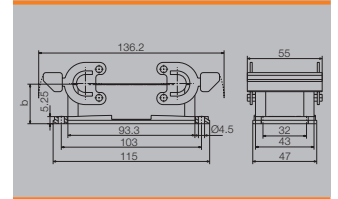


Base

Bulkhead housing



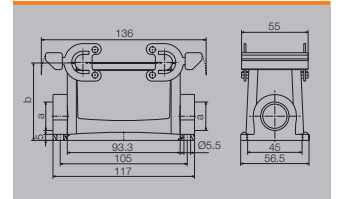
Version	Cover	b (mm)	Type	Order No.
		29	HDC 16B ABU	1208600000



Base housing



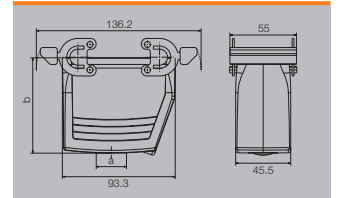
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		64	HDC 16B SBU 2M25G	1788240000
M 25	w. threading		84	HDC 40D SBU 2M25G	1787120000
M 32	w. threading		84	HDC 40D SBU 2M32G	1787110000



Coupling housing



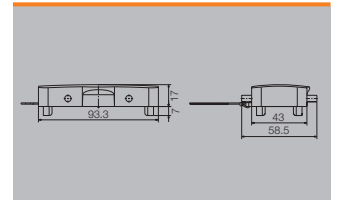
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		79	HDC 40D KBU 1M25G	1787200000
M 32	w. threading		79	HDC 40D KBU 1M32G	1787190000



Cover



Version	Type	Order No.
For bases (lower parts of housings)	HDC 16B DDDQ 4B0	1665260000

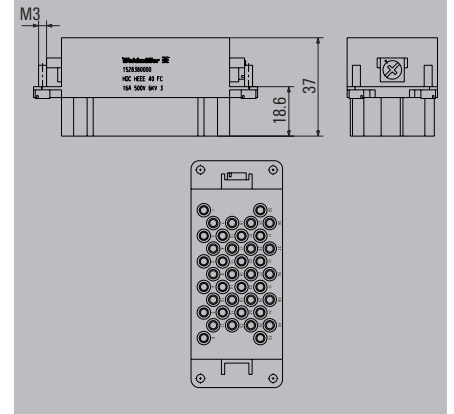
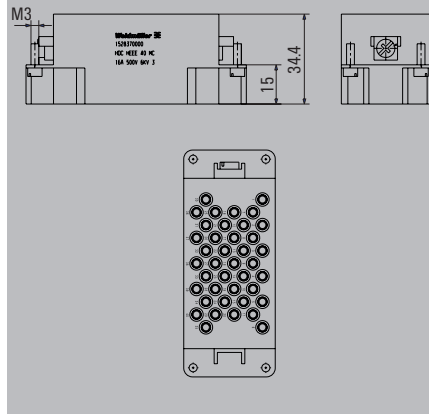
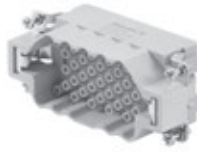


500 V, 16 A, size 6

40 + ⊕

Male

Female



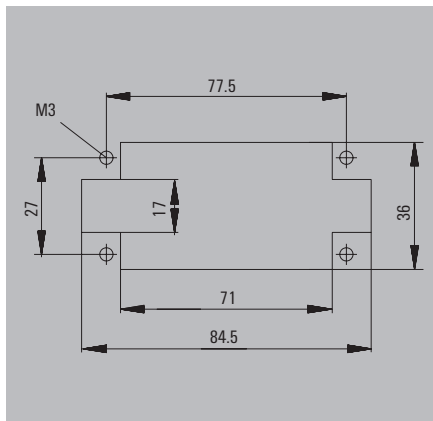
Ordering data

Type of connection	Type	Qty.	Order No.
Crimp connection	HDC HEHE 40 MC	5	1528370000

Ordering data

Type of connection	Type	Qty.	Order No.
Crimp connection	HDC HEHE 40 FC	5	1528380000

Installation cut-out



Accessories

Type	Qty.	Order No.
Crimp contacts, male - gold		
HDC-C-HE-SM0.5AU	100	1651420000
HDC-C-HE-SM0.75-1.00AU	100	1651430000
HDC-C-HE-SM1.5AU	100	1651440000
HDC-C-HE-SM2.5AU	100	1651450000
HDC-C-HE-SM4.0AU	100	1651460000
Crimp contacts, male - silver		
HDC-C-HE-SM0.5AG	100	1200500000
HDC-C-HE-SM0.75-1.00AG	100	1200600000
HDC-C-HE-SM1.5AG	100	1200700000
HDC-C-HE-SM2.5AG	100	1200800000
HDC-C-HE-SM4.0AG	100	1200900000
Tools		
CTX CM 1.6/2.5	1	9018490000
Removal Tool HE	1	1866750000

Accessories

Type	Qty.	Order No.
Crimp contacts, female - gold		
HDC-C-HE-BM0.5AU	100	1651470000
HDC-C-HE-BM0.75-1.00AU	100	1651480000
HDC-C-HE-BM1.5AU	100	1651490000
HDC-C-HE-BM2.5AU	100	1651500000
HDC-C-HE-BM4.0AU	100	1651510000
Crimp contacts, female - silver		
HDC-C-HE-BM0.5AG	100	1201100000
HDC-C-HE-BM0.75-1.00AG	100	1201200000
HDC-C-HE-BM1.5AG	100	1201300000
HDC-C-HE-BM2.5AG	100	1201400000
HDC-C-HE-BM4.0AG	100	1201500000
Tools		
CTX CM 1.6/2.5	1	9018490000
Removal Tool HE	1	1866750000

Housing selection RockStar® IP65
Size 6



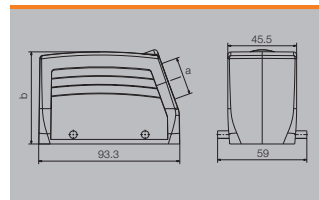
For additional housings, refer to
Chapter E for IP65 / Chapter F for IP68

Hood

Plug housing, cable entry sideways



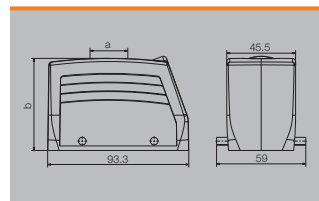
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 16B TSBU 1M25G	1788180000
M 25	w. threading		76	HDC 40D TSBU 1M25G	1787010000
M 32	w. threading		76	HDC 40D TSBU 1M32G	1787000000



Plug housing, cable entry at top



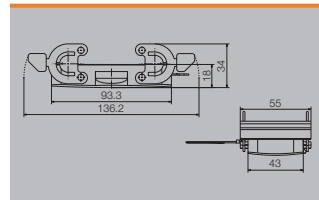
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 16B TOBU 1M25G	1788210000
M 25	w. threading		76	HDC 40D TOBU 1M25G	1787070000
M 32	w. threading		76	HDC 40D TOBU 1M32G	1787060000



Cover



Version	Type	Order No.
For hoods (upper parts of housings)	HDC 16B DMDQ 2QB	1665270000

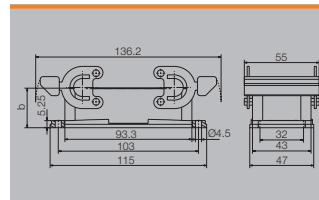


Base

Bulkhead housing



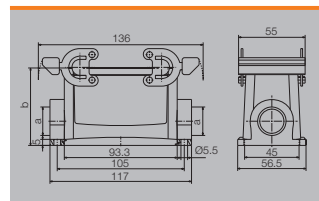
Version	Cover	b (mm)	Type	Order No.
		29	HDC 16B ABU	1208600000



Base housing



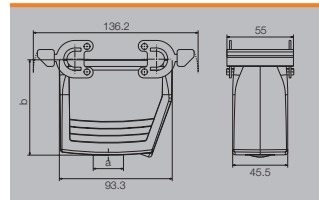
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		64	HDC 16B SBU 2M25G	1788240000
M 25	w. threading		84	HDC 40D SBU 2M25G	1787120000
M 32	w. threading		84	HDC 40D SBU 2M32G	1787110000



Coupling housing



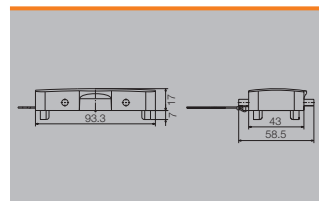
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		79	HDC 40D KBU 1M25G	1787200000
M 32	w. threading		79	HDC 40D KBU 1M32G	1787190000



Cover

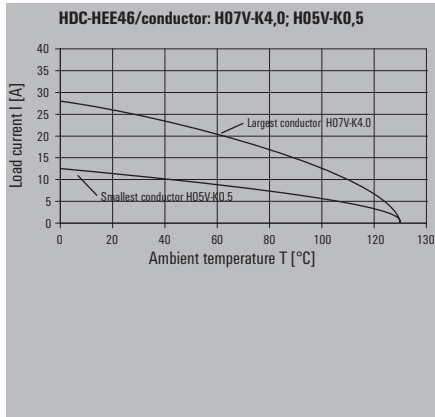


Version	Type	Order No.
For bases (lower parts of housings)	HDC 16B DDDQ 4B0	1665260000

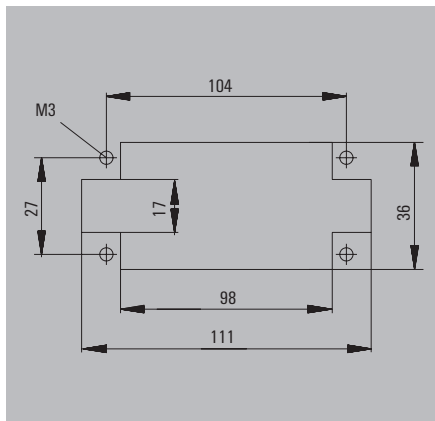


500 V, 16 A, size 8

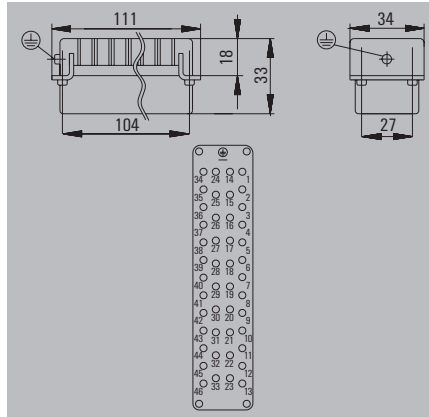
46 + ⊕



Installation cut-out



Male



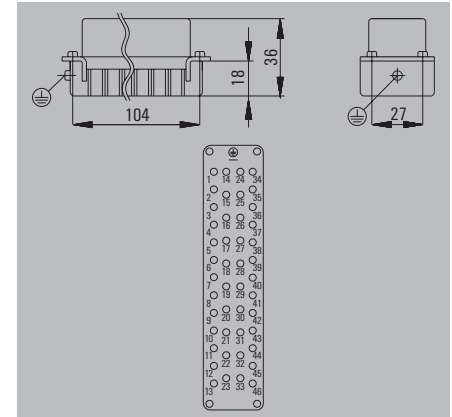
Ordering data

Type of connection	Type	Qty.	Order No.
Crimp connection	HDC HEE 46 MC	1	1826770000

Accessories

Type	Qty.	Order No.
Crimp contacts, male - gold		
HDC-C-HE-SM0.5AU	100	1651420000
HDC-C-HE-SM0.75-1.00AU	100	1651430000
HDC-C-HE-SM1.5AU	100	1651440000
HDC-C-HE-SM2.5AU	100	1651450000
HDC-C-HE-SM4.0AU	100	1651460000
Crimp contacts, male - silver		
HDC-C-HE-SM0.5AG	100	1200500000
HDC-C-HE-SM0.75-1.00AG	100	1200600000
HDC-C-HE-SM1.5AG	100	1200700000
HDC-C-HE-SM2.5AG	100	1200800000
HDC-C-HE-SM4.0AG	100	1200900000
Tools		
CTX CM 1.6/2.5	1	9018490000
Removal Tool HE	1	1866750000

Female



Ordering data

Type of connection	Type	Qty.	Order No.
Crimp connection	HDC HEE 46 FC	1	1826780000

Accessories

Type	Qty.	Order No.
Crimp contacts, female - gold		
HDC-C-HE-BM0.5AU	100	1651470000
HDC-C-HE-BM0.75-1.00AU	100	1651480000
HDC-C-HE-BM1.5AU	100	1651490000
HDC-C-HE-BM2.5AU	100	1651500000
HDC-C-HE-BM4.0AU	100	1651510000
Crimp contacts, female - silver		
HDC-C-HE-BM0.5AG	100	1201100000
HDC-C-HE-BM0.75-1.00AG	100	1201200000
HDC-C-HE-BM1.5AG	100	1201300000
HDC-C-HE-BM2.5AG	100	1201400000
HDC-C-HE-BM4.0AG	100	1201500000
Tools		
CTX CM 1.6/2.5	1	9018490000
Removal Tool HE	1	1866750000

Housing selection RockStar® IP65
Size 8

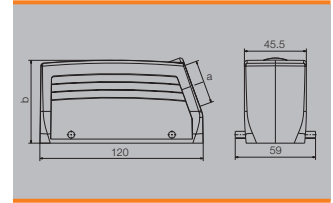


For additional housings, refer to
Chapter E for IP65 / Chapter F for IP68

Plug housing, cable entry sideways



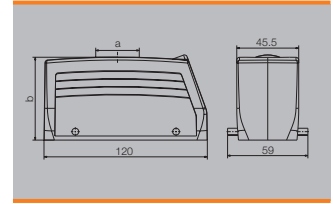
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 24B TSBU 1M25G	1787760000
M 25	w. threading		76	HDC 64D TSBU 1M25G	1786780000
M 32	w. threading		61	HDC 24B TSBU 1M32G	1787750000
M 32	w. threading		76	HDC 64D TSBU 1M32G	1786770000



Plug housing, cable entry at top



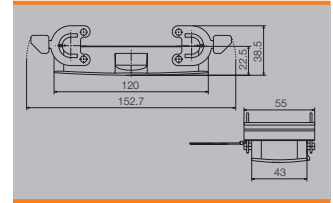
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 24B TOBU 1M25G	1787820000
M 32	w. threading		61	HDC 24B TOBU 1M32G	1787810000
M 32	w. threading		76	HDC 64D TOBU 1M32G	1786830000



Cover



Version	Type	Order No.
For hoods (upper parts of housings)	HDC 24B DMDQ 2QB	1665640000

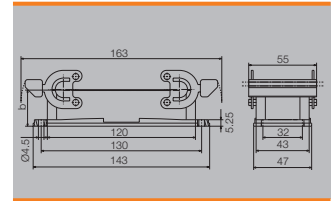


Base

Bulkhead housing



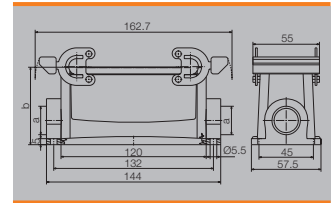
Version	Cover	b (mm)	Type	Order No.
		29.3	HDC 24B ABU	1212400000



Base housing



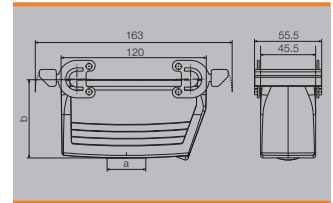
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		64	HDC 24B SBU 2M25G	1787870000
M 25	w. threading		84	HDC 64D SBU 2M25G	1786890000
M 32	w. threading		84	HDC 64D SBU 2M32G	1786880000



Coupling housing



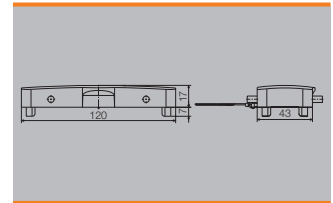
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		65	HDC 24B KBU 1M25G	1787920000
M 32	w. threading		79	HDC 64D KBU 1M32G	1786960000



Cover

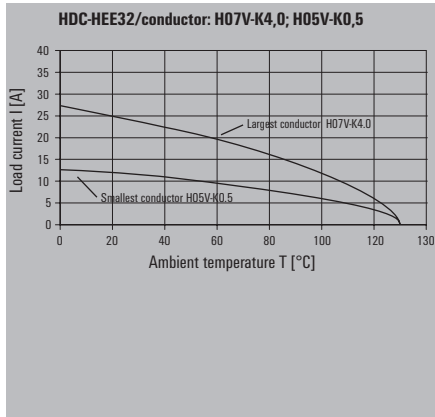


Version	Type	Order No.
For bases (lower parts of housings)	HDC 24B DDDQ 4B0	1665630000

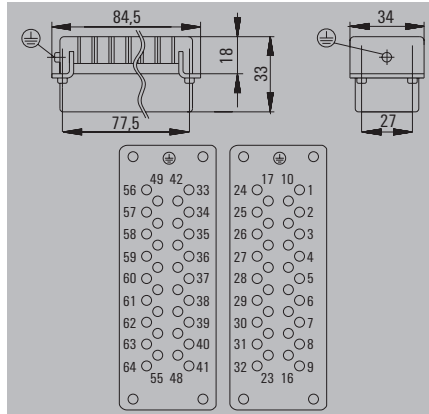


500 V, 16 A, size 10

64 + ⊕



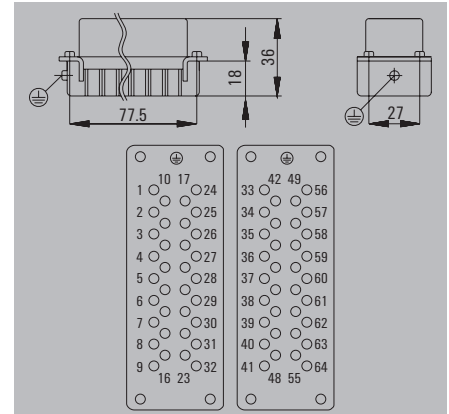
Male



Ordering data

Type of connection	Type	Qty.	Order No.
Crimp connection	HDC HEE 32 MC	1	1826790000
Crimp connection	HDC HEE 32 MC 33-64	1	1018950000

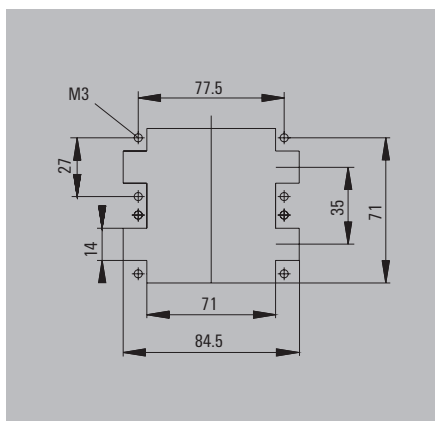
Female



Ordering data

Type of connection	Type	Qty.	Order No.
Crimp connection	HDC HEE 32 FC	1	1826800000
Crimp connection	HDC HEE 32 FC 33-64	1	1018960000

Installation cut-out



Accessories

Type	Qty.	Order No.
Crimp contacts, male - gold		
HDC-C-HE-SM0.5AU	100	1651420000
HDC-C-HE-SM0.75-1.00AU	100	1651430000
HDC-C-HE-SM1.5AU	100	1651440000
HDC-C-HE-SM2.5AU	100	1651450000
HDC-C-HE-SM4.0AU	100	1651460000
Crimp contacts, male - silver		
HDC-C-HE-SM0.5AG	100	1200500000
HDC-C-HE-SM0.75-1.00AG	100	1200600000
HDC-C-HE-SM1.5AG	100	1200700000
HDC-C-HE-SM2.5AG	100	1200800000
HDC-C-HE-SM4.0AG	100	1200900000
Tools		
CTX CM 1.6/2.5	1	9018490000
Removal Tool HE	1	1866750000

Accessories

Type	Qty.	Order No.
Crimp contacts, female - gold		
HDC-C-HE-BM0.5AU	100	1651470000
HDC-C-HE-BM0.75-1.00AU	100	1651480000
HDC-C-HE-BM1.5AU	100	1651490000
HDC-C-HE-BM2.5AU	100	1651500000
HDC-C-HE-BM4.0AU	100	1651510000
Crimp contacts, female - silver		
HDC-C-HE-BM0.5AG	100	1201100000
HDC-C-HE-BM0.75-1.00AG	100	1201200000
HDC-C-HE-BM1.5AG	100	1201300000
HDC-C-HE-BM2.5AG	100	1201400000
HDC-C-HE-BM4.0AG	100	1201500000
Tools		
CTX CM 1.6/2.5	1	9018490000
Removal Tool HE	1	1866750000

Housing selection RockStar® IP65
Size 10



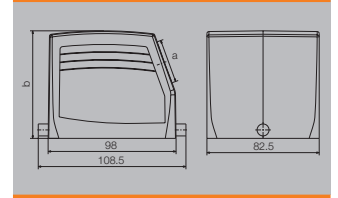
For additional housings, refer to
chapter E for IP65

Hood

Plug housing, cable entry sideways



a	Version	Cover	b (mm)	Type	Order No.
M 32	w. threading		79	HDC 32B TSLU 1M32G	1788420000

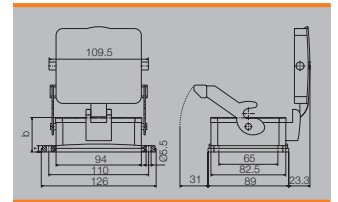


Base

Bulkhead housing



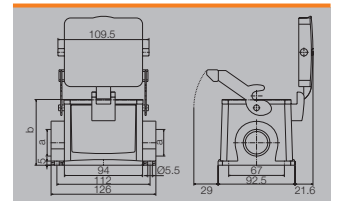
Version	Cover	b (mm)	Type	Order No.
		38	HDC 32B ALU	1219500000
	with cover	55	HDC 32B ADLU	1219800000



Base housing



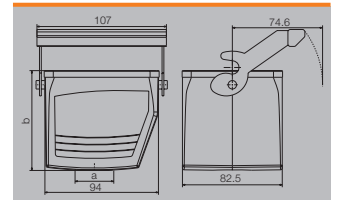
a	Version	Cover	b (mm)	Type	Order No.
M 32	w. threading		79	HDC 32B SLU 2M32G	1788470000
M 32	w. threading	with cover	96	HDC 32B SDLU 2M32G	1788490000



Coupling housing

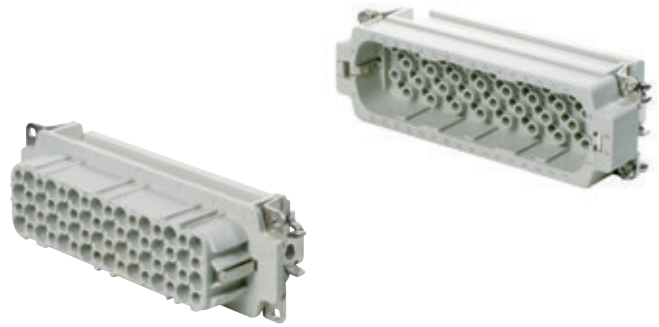


a	Version	Cover	b (mm)	Type	Order No.
M 32	w. threading		83	HDC 32B KLU 1M32G	1788500000



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 DIN EN 175301-801
Approvals	UL/CSA
Inserts	
No. of poles	7, 15, 16, 25, 40, 50, 64, 80, 128 (+ 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	$\geq 10^{10} \Omega$
Material	Glass-fibre reinforced PC (in UL list and approved for railway applications)
Temperature range	-40 °C to +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 gold-plated
Crimp connection	
- Flexible conductor connection	0.14 - 2.5 mm ² (AWG 26 - 14)
- Stripping length	8.0 mm
PE 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 - 1.5 Nm
- Blade dimensions	SD 0.8 x 4 mm or PZ1

Note:

For inserts with 15 or more poles, the earthing (ground) is made with a screw connection. When used properly and as designated, the listed connectors may not be connected or disconnected if there is a live voltage or load!
The HD 8 does not feature an earthing connection.

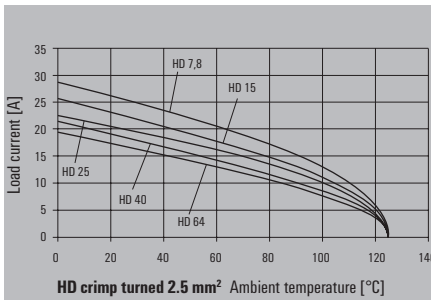
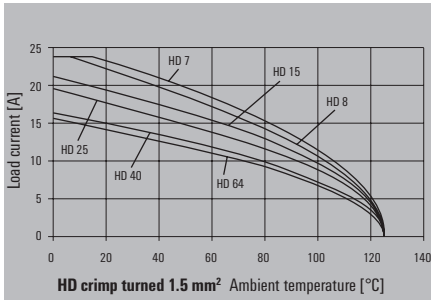
When using connectors with high contact density, we recommend the use of guide pins and sockets; see Chapter I.

Overview

		Size	Rated voltage	Rated current	No. of poles	Tension clamp connection	TOP connection	Screw conn. with wire guard spring	Crimp connection	PUSH IN connection	Page
		1	250 V	10 A	7 + ⊕				•		B.48
		1	42 V	10 A	8				•		B.50
		2	250 V	10 A	15 + ⊕				•		B.52
		5	250 V	10 A	25 + ⊕				•		B.54
		6	250 V	10 A	40 + ⊕				•		B.56
		7	250 V	10 A	50 + ⊕				•		B.58
		8	250 V	10 A	64 + ⊕				•		B.60
		10	250 V	10 A	80 + ⊕				•		B.62
		12	250 V	10 A	128 + ⊕				•		B.64

250 V, 10 A, size 1

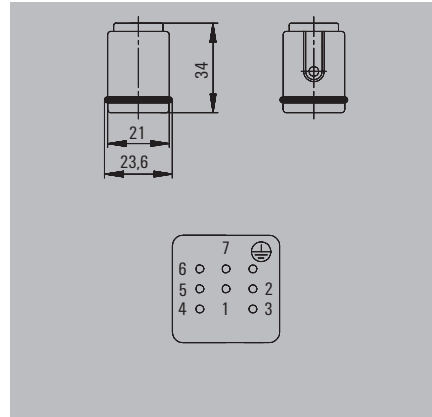
7 + ⊕



Installation cut-out



Male



Ordering data

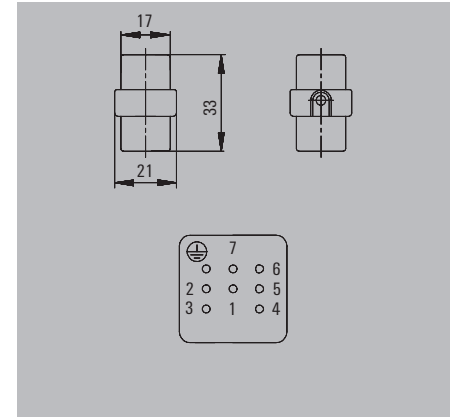
Type of connection	Type	Qty.	Order No.
Crimp connection	HDC HD 7 MC	1	1650570000

Can only be used in plastic housings.

Accessories

Type	Qty.	Order No.
Crimp contacts, male - gold		
HDC-C-HD-SM0.14-0.37AU	100	1651620000
HDC-C-HD-SM0.5AU	100	1651630000
HDC-C-HD-SM0.75-1.00AU	100	1651640000
HDC-C-HD-SM1.5AU	100	1651650000
HDC-C-HD-SM2.5AU	100	1651660000
Crimp contacts, male - silver		
HDC-C-HD-SM0.14-0.37AG	100	1651520000
HDC-C-HD-SM0.5AG	100	1651530000
HDC-C-HD-SM0.75-1.00AG	100	1601750000
HDC-C-HD-SM1.5AG	100	1651550000
HDC-C-HD-SM2.5AG	100	1651560000
Tools		
CTX CM 1.6/2.5	1	9018490000
REMOVAL TOOL HD	1	1866730000

Female



Ordering data

Type of connection	Type	Qty.	Order No.
Crimp connection	HDC HD 7 FC	1	1650580000

Can only be used in plastic housings.

Accessories

Type	Qty.	Order No.
Crimp contacts, female - gold		
HDC-C-HD-BM0.14-0.37AU	100	1651670000
HDC-C-HD-BM0.5AU	100	1651680000
HDC-C-HD-BM0.75-1.00AU	100	1651690000
HDC-C-HD-BM1.5AU	100	1651700000
HDC-C-HD-BM2.5AU	100	1651710000
Crimp contacts, female - silver		
HDC-C-HD-BM0.14-0.37AG	100	1651570000
HDC-C-HD-BM0.5AG	100	1651580000
HDC-C-HD-BM0.75-1.00AG	100	1601760000
HDC-C-HD-BM1.5AG	100	1651600000
HDC-C-HD-BM2.5AG	100	1651610000
Tools		
CTX CM 1.6/2.5	1	9018490000
REMOVAL TOOL HD	1	1866730000

Housing selection RockStar® IP65
Size 1



For additional housings, refer to
Chapter E for IP65 / Chapter F for IP68

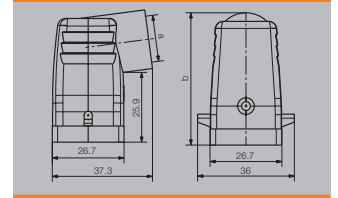
Hood

Plug housing, cable entry sideways



Material: Plastic

a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		49.2	HDC 07A TWLU 1M20G	1788510000

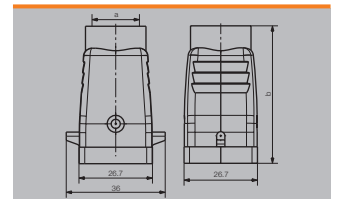


Plug housing, cable entry at top



Material: Plastic

a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		50	HDC 07A TOLU 1M20G	1788520000



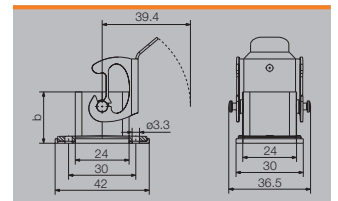
Base

Bulkhead housing



Material: Plastic

Version	Cover	b (mm)	Type	Order No.
		23	HDC 07A ALU	1652410000

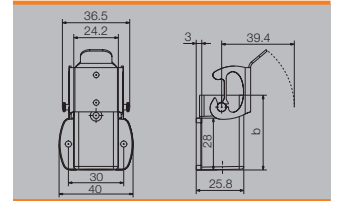


Base housing



Material: Plastic

a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		41.5	HDC 07A SLU 1M20G	1788530000

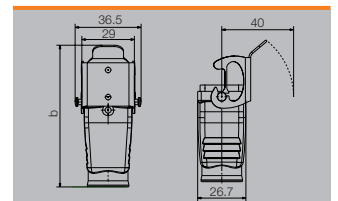


Coupling housing



Material: Plastic

a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		53.5	HDC 07A KOLU 1M20G	1788540000

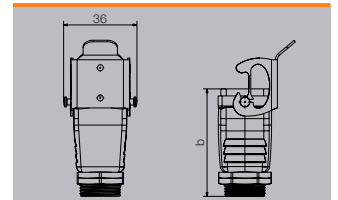


Screw mounting housing



Material: Plastic

a	Version	Cover	b (mm)	Type	Order No.
PG 13.5	w. threading		54	HDC 07A ELU 1PG13G	1900990000

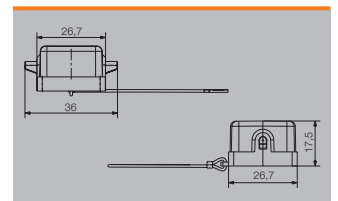


Cover



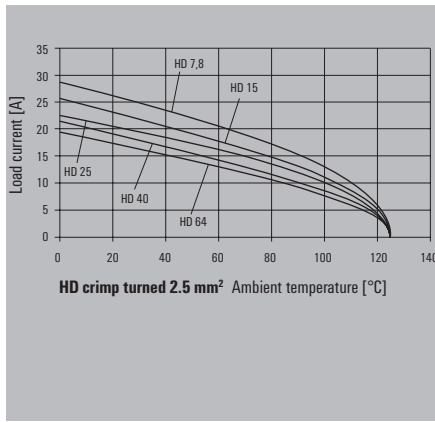
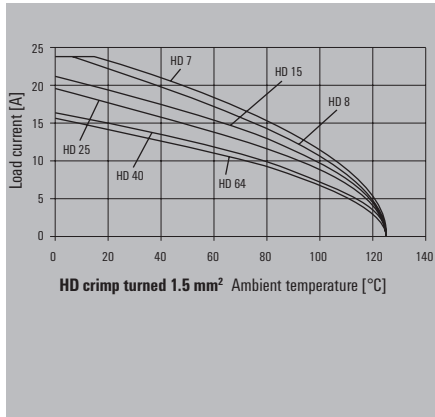
Material: Plastic

Version	Type	Order No.
for female insert	HDC 07A DMDL 2B0	1665770000
for male insert	HDC 07A DODL 2B0	1665760000



50 V, 10 A, size 1

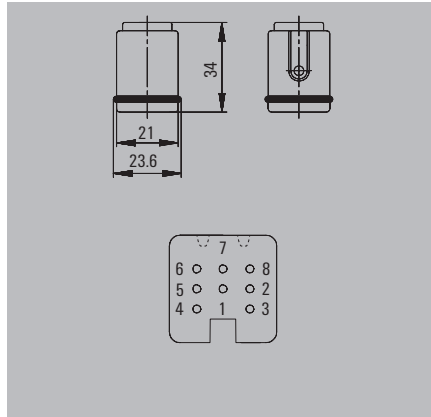
8



Installation cut-out



Male



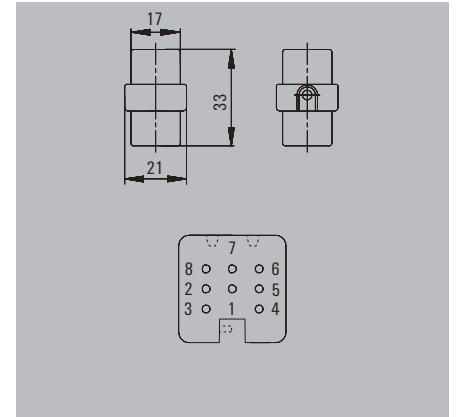
Ordering data

Type of connection	Type	Qty.	Order No.
Crimp connection	HDC HD 8 MC	1	1650590000

Accessories

Type	Qty.	Order No.
Crimp contacts, male - gold		
HDC-C-HD-SM0.14-0.37AU	100	1651620000
HDC-C-HD-SM0.5AU	100	1651630000
HDC-C-HD-SM0.75-1.00AU	100	1651640000
HDC-C-HD-SM1.5AU	100	1651650000
HDC-C-HD-SM2.5AU	100	1651660000
Crimp contacts, male - silver		
HDC-C-HD-SM0.14-0.37AG	100	1651520000
HDC-C-HD-SM0.5AG	100	1651530000
HDC-C-HD-SM0.75-1.00AG	100	1601750000
HDC-C-HD-SM1.5AG	100	1651550000
HDC-C-HD-SM2.5AG	100	1651560000
Tools		
CTX CM 1.6/2.5	1	9018490000
REMOVAL TOOL HD	1	1866730000

Female



Ordering data

Type of connection	Type	Qty.	Order No.
Crimp connection	HDC HD 8 FC	1	1650600000

Accessories

Type	Qty.	Order No.
Crimp contacts, female - gold		
HDC-C-HD-BM0.14-0.37AU	100	1651670000
HDC-C-HD-BM0.5AU	100	1651680000
HDC-C-HD-BM0.75-1.00AU	100	1651690000
HDC-C-HD-BM1.5AU	100	1651700000
HDC-C-HD-BM2.5AU	100	1651710000
Crimp contacts, female - silver		
HDC-C-HD-BM0.14-0.37AG	100	1651570000
HDC-C-HD-BM0.5AG	100	1651580000
HDC-C-HD-BM0.75-1.00AG	100	1601760000
HDC-C-HD-BM1.5AG	100	1651600000
HDC-C-HD-BM2.5AG	100	1651610000
Tools		
CTX CM 1.6/2.5	1	9018490000
REMOVAL TOOL HD	1	1866730000

Housing selection RockStar® IP65
Size 1



For additional housings, refer to
Chapter E for IP65 / Chapter F for IP68

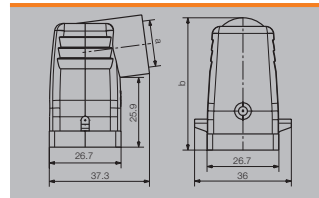
Hood

Plug housing, cable entry sideways



Material: Plastic

a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		49.2	HDC 07A TWLU 1M20G	1788510000

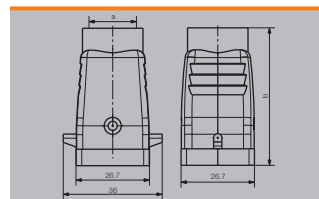


Plug housing, cable entry at top



Material: Plastic

a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		50	HDC 07A TOLU 1M20G	1788520000



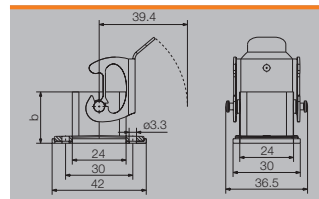
Base

Bulkhead housing



Material: Plastic

Version	Cover	b (mm)	Type	Order No.
		23	HDC 07A ALU	1652410000

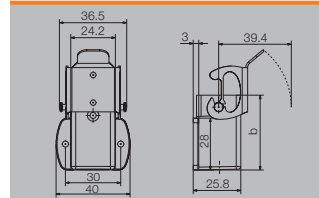


Base housing



Material: Plastic

a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		41.5	HDC 07A SLU 1M20G	1788530000

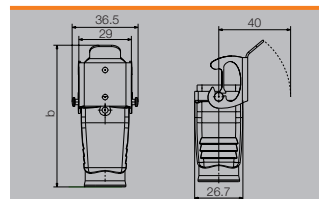


Coupling housing



Material: Plastic

a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		53.5	HDC 07A KOLU 1M20G	1788540000

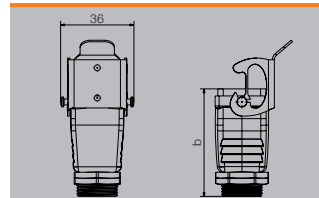


Screw mounting housing



Material: Plastic

a	Version	Cover	b (mm)	Type	Order No.
PG 13.5	w. threading		54	HDC 07A ELU 1PG13G	1900990000

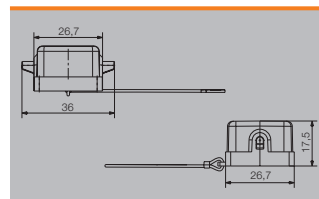


Cover



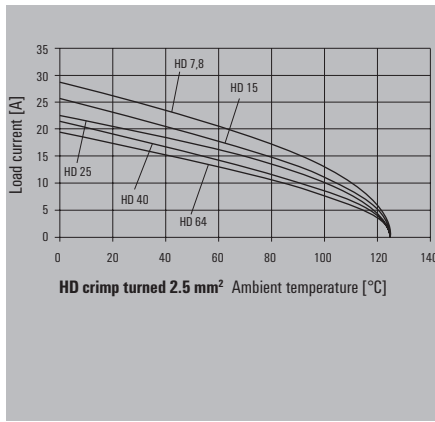
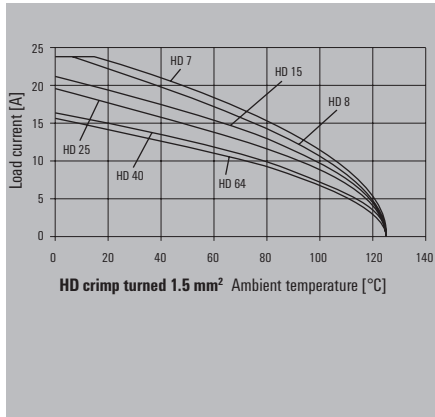
Material: Plastic

Version	Type	Order No.
for female insert	HDC 07A DMDL 2B0	1665770000
for male insert	HDC 07A DODL 2B0	1665760000

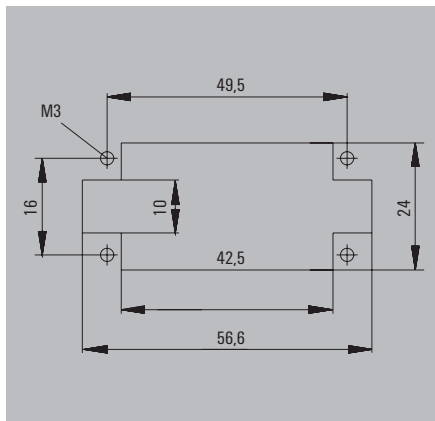


250 V, 10 A, size 2

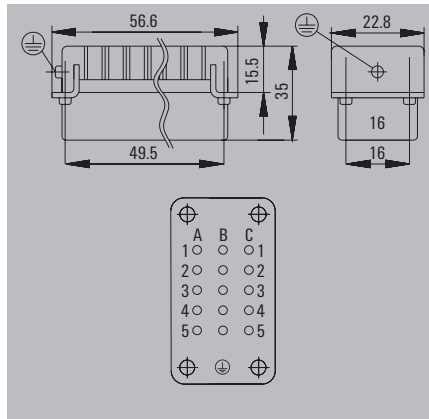
15 + ⊕



Installation cut-out



Male



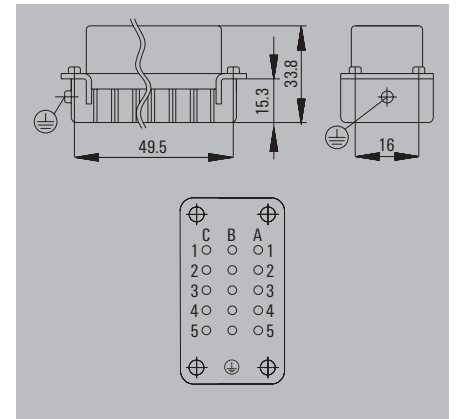
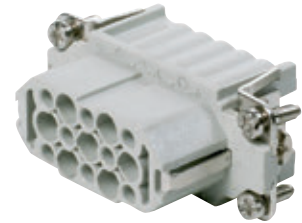
Ordering data

Type of connection	Type	Qty.	Order No.
Crimp connection	HDC HD 15 MC	1	1650650000
UNDEFINED TEXT			

Accessories

Type	Qty.	Order No.
Crimp contacts, male - gold		
HDC-C-HD-SM0.14-0.37AU	100	1651620000
HDC-C-HD-SM0.5AU	100	1651630000
HDC-C-HD-SM0.75-1.00AU	100	1651640000
HDC-C-HD-SM1.5AU	100	1651650000
HDC-C-HD-SM2.5AU	100	1651660000
Crimp contacts, male - silver		
HDC-C-HD-SM0.14-0.37AG	100	1651520000
HDC-C-HD-SM0.5AG	100	1651530000
HDC-C-HD-SM0.75-1.00AG	100	1601750000
HDC-C-HD-SM1.5AG	100	1651550000
HDC-C-HD-SM2.5AG	100	1651560000
Tools		
CTX CM 1.6/2.5	1	9018490000
REMOVAL TOOL HD	1	1866730000

Female



Ordering data

Type of connection	Type	Qty.	Order No.
Crimp connection	HDC HD 15 FC	1	1650660000
UNDEFINED TEXT			

Accessories

Type	Qty.	Order No.
Crimp contacts, female - gold		
HDC-C-HD-BM0.14-0.37AU	100	1651670000
HDC-C-HD-BM0.5AU	100	1651680000
HDC-C-HD-BM0.75-1.00AU	100	1651690000
HDC-C-HD-BM1.5AU	100	1651700000
HDC-C-HD-BM2.5AU	100	1651710000
Crimp contacts, female - silver		
HDC-C-HD-BM0.14-0.37AG	100	1651570000
HDC-C-HD-BM0.5AG	100	1651580000
HDC-C-HD-BM0.75-1.00AG	100	1601760000
HDC-C-HD-BM1.5AG	100	1651600000
HDC-C-HD-BM2.5AG	100	1651610000
Tools		
CTX CM 1.6/2.5	1	9018490000
REMOVAL TOOL HD	1	1866730000

Housing selection RockStar® IP65
Size 2



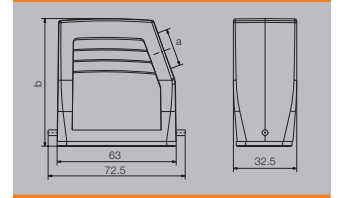
For additional housings, refer to chapter E for IP65

Hood

Plug housing, cable entry sideways



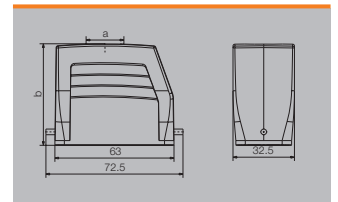
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		68	HDC 15A TSLU 1M20G	1788860000
M 25	w. threading		68	HDC 15A TSLU 1M25G	1788850000



Plug housing, cable entry at top



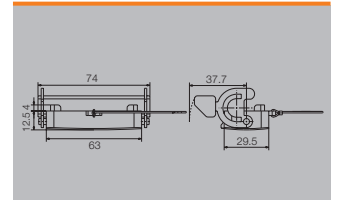
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		54	HDC 10A TOLL 1M20G	1788620000
M 25	w. threading		54	HDC 10A TOLL 1M25G	1788610000



Cover



Version	Type	Order No.
For hoods (upper parts of housings)	HDC 10A DDDL 1LB	1665890000

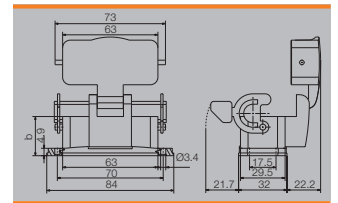


Base

Bulkhead housing



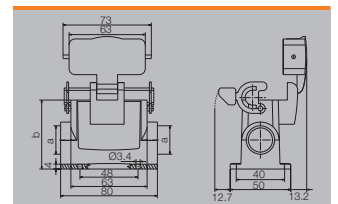
Version	Cover	b (mm)	Type	Order No.
		25	HDC 10A ALU	1664040000
	with cover	37.5	HDC 10A ADLU	1664060000



Base housing



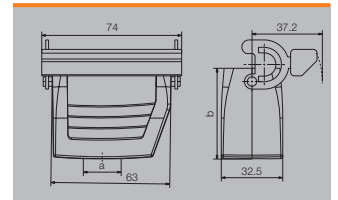
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		57	HDC 10A SLU 2M20G	1788640000
M 20	w. threading	with cover	69.5	HDC 10A SDLU 2M20G	1788660000
M 25	w. threading		57	HDC 10A SLU 2M25G	1788630000
M 25	w. threading	with cover	69.5	HDC 10A SDLU 2M25G	1788650000



Coupling housing



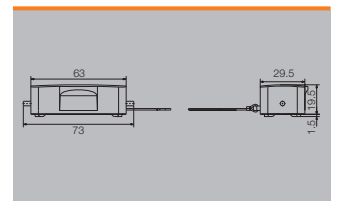
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		48	HDC 10A KLU 1M25G	1788670000



Cover

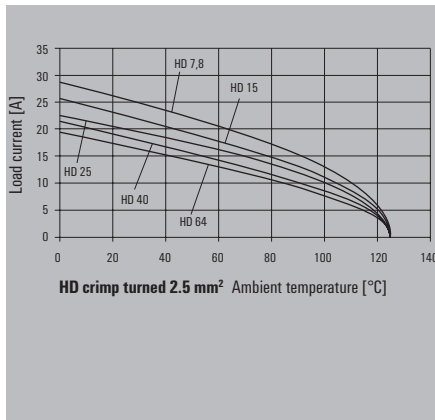
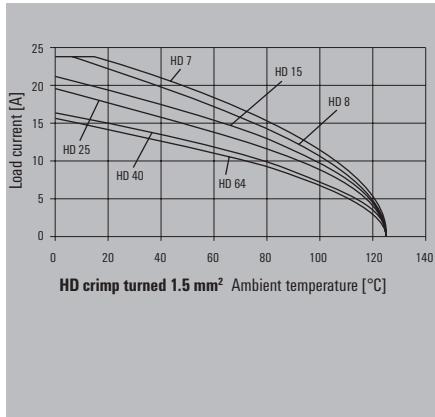


Version	Type	Order No.
For bases (lower parts of housings)	HDC 10A DMDL 2B0	1665880000

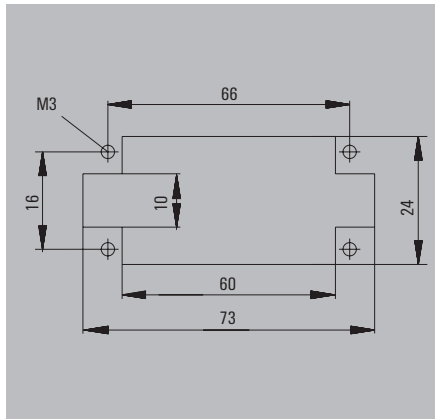


250 V, 10 A, size 5

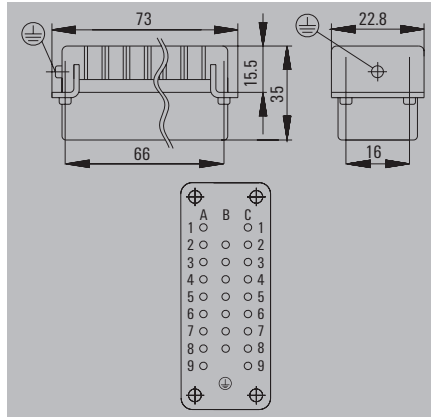
25 + ⊕



Installation cut-out



Male



Ordering data

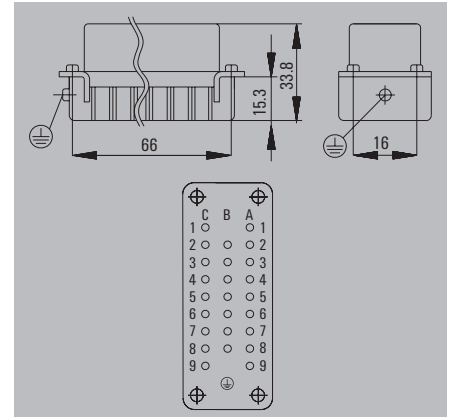
Type of connection	Type	Qty.	Order No.
Crimp connection	HDC HD 25 MC	1	1650810000

Please use this insert type doubled for size 7 (50-pole). We recommend the use of guide pins and sockets.

Accessories

Type	Qty.	Order No.
Crimp contacts, male - gold		
HDC-C-HD-SM0.14-0.37AU	100	1651620000
HDC-C-HD-SM0.5AU	100	1651630000
HDC-C-HD-SM0.75-1.00AU	100	1651640000
HDC-C-HD-SM1.5AU	100	1651650000
HDC-C-HD-SM2.5AU	100	1651660000
Crimp contacts, male - silver		
HDC-C-HD-SM0.14-0.37AG	100	1651520000
HDC-C-HD-SM0.5AG	100	1651530000
HDC-C-HD-SM0.75-1.00AG	100	1601750000
HDC-C-HD-SM1.5AG	100	1651550000
HDC-C-HD-SM2.5AG	100	1651560000
Tools		
CTX CM 1.6/2.5	1	9018490000
REMOVAL TOOL HD	1	1866730000

Female



Ordering data

Type of connection	Type	Qty.	Order No.
Crimp connection	HDC HD 25 FC	1	1650820000

Please use this insert type doubled for size 7 (50-pole). We recommend the use of guide pins and sockets.

Accessories

Type	Qty.	Order No.
Crimp contacts, female - gold		
HDC-C-HD-BM0.14-0.37AU	100	1651670000
HDC-C-HD-BM0.5AU	100	1651680000
HDC-C-HD-BM0.75-1.00AU	100	1651690000
HDC-C-HD-BM1.5AU	100	1651700000
HDC-C-HD-BM2.5AU	100	1651710000
Crimp contacts, female - silver		
HDC-C-HD-BM0.14-0.37AG	100	1651570000
HDC-C-HD-BM0.5AG	100	1651580000
HDC-C-HD-BM0.75-1.00AG	100	1601760000
HDC-C-HD-BM1.5AG	100	1651600000
HDC-C-HD-BM2.5AG	100	1651610000
Tools		
CTX CM 1.6/2.5	1	9018490000
REMOVAL TOOL HD	1	1866730000

Housing selection RockStar® IP65
Size 5



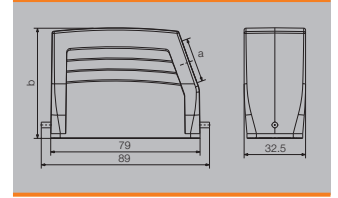
For additional housings, refer to chapter E for IP65

Hood

Plug housing, cable entry sideways



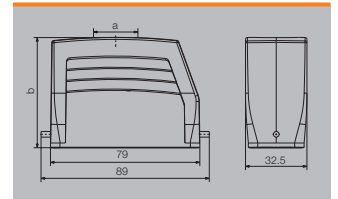
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		72	HDC 25A TSLU 1M20G	1788680000
M 25	w. threading		58	HDC 16A TSLU 1M25G	1788740000
M 25	w. threading		72	HDC 25A TSLU 1M25G	1788690000



Plug housing, cable entry at top



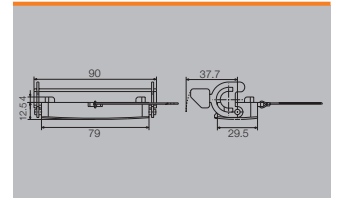
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		72	HDC 25A TOLU 1M20G	1788710000
M 25	w. threading		58	HDC 16A TOLU 1M25G	1788750000
M 25	w. threading		72	HDC 25A TOLU 1M25G	1788700000



Cover



Version	Type	Order No.
For hoods (upper parts of housings)	HDC 16A DDDL 1LB	1665900000

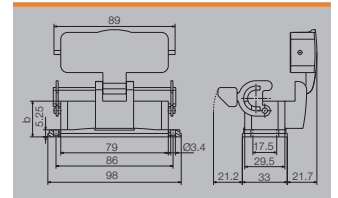


Base

Bulkhead housing



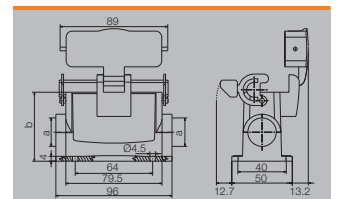
Version	Cover	b (mm)	Type	Order No.
		25	HDC 16A ALU	1664920000
	with cover	44.5	HDC 16A ADLU	1664940000



Base housing



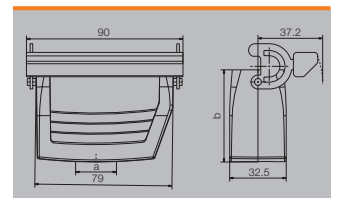
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		57	HDC 16A SLU 2M20G	1788770000
M 20	w. threading	with cover	76.5	HDC 16A SDLU 2M20G	1788790000
M 25	w. threading		57	HDC 16A SLU 2M25G	1788760000
M 25	w. threading	with cover	76.5	HDC 16A SDLU 2M25G	1788780000



Coupling housing



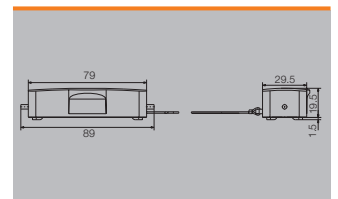
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		53	HDC 16A KLU 1M25G	1788800000



Cover

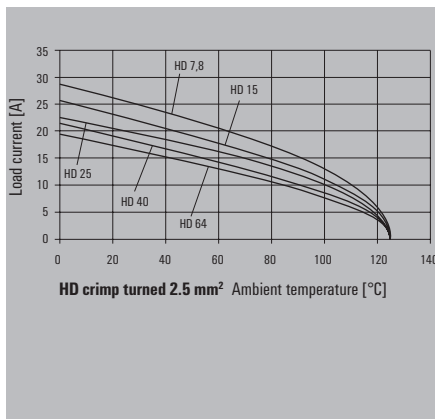
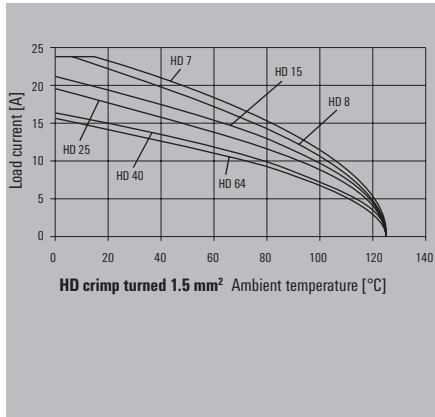


Version	Type	Order No.
For bases (lower parts of housings)	HDC 16A DMDL 2B0	1665910000

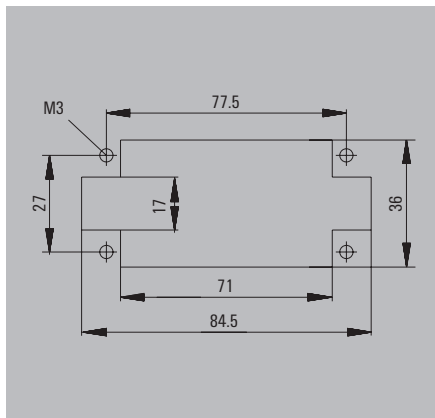


250 V, 10 A, size 6

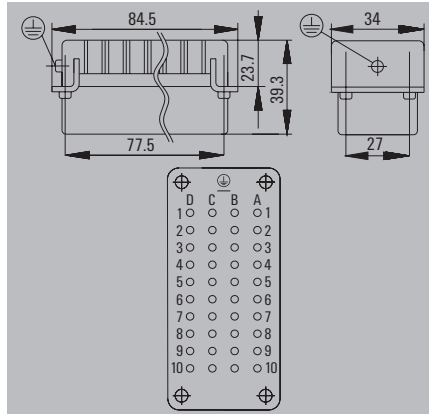
40 + ⊕



Installation cut-out



Male



Ordering data

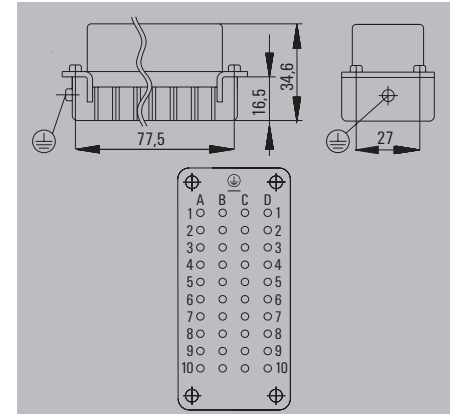
Type of connection	Type	Qty.	Order No.
Crimp connection	HDC HD 40 MC	1	1601710000

Please use this insert type doubled for size 10 (80-pole). We recommend the use of guide pins and sockets.

Accessories

Type	Qty.	Order No.
Crimp contacts, male - gold		
HDC-C-HD-SM0.14-0.37AU	100	1651620000
HDC-C-HD-SM0.5AU	100	1651630000
HDC-C-HD-SM0.75-1.00AU	100	1651640000
HDC-C-HD-SM1.5AU	100	1651650000
HDC-C-HD-SM2.5AU	100	1651660000
Crimp contacts, male - silver		
HDC-C-HD-SM0.14-0.37AG	100	1651520000
HDC-C-HD-SM0.5AG	100	1651530000
HDC-C-HD-SM0.75-1.00AG	100	1601750000
HDC-C-HD-SM1.5AG	100	1651550000
HDC-C-HD-SM2.5AG	100	1651560000
Tools		
CTX CM 1.6/2.5	1	9018490000
REMOVAL TOOL HD	1	1866730000

Female



Ordering data

Type of connection	Type	Qty.	Order No.
Crimp connection	HDC HD 40 FC	1	1601730000

Please use this insert type doubled for size 10 (80-pole). We recommend the use of guide pins and sockets.

Accessories

Type	Qty.	Order No.
Crimp contacts, female - gold		
HDC-C-HD-BM0.14-0.37AU	100	1651670000
HDC-C-HD-BM0.5AU	100	1651680000
HDC-C-HD-BM0.75-1.00AU	100	1651690000
HDC-C-HD-BM1.5AU	100	1651700000
HDC-C-HD-BM2.5AU	100	1651710000
Crimp contacts, female - silver		
HDC-C-HD-BM0.14-0.37AG	100	1651570000
HDC-C-HD-BM0.5AG	100	1651580000
HDC-C-HD-BM0.75-1.00AG	100	1601760000
HDC-C-HD-BM1.5AG	100	1651600000
HDC-C-HD-BM2.5AG	100	1651610000
Tools		
CTX CM 1.6/2.5	1	9018490000
REMOVAL TOOL HD	1	1866730000

Housing selection RockStar® IP65
Size 6

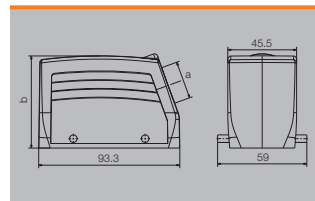


For additional housings, refer to
Chapter E for IP65 / Chapter F for IP68

Plug housing, cable entry sideways



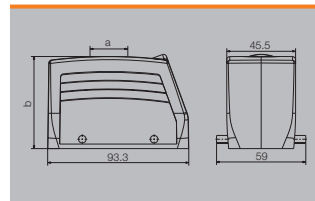
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 16B TSBU 1M25G	1788180000
M 25	w. threading		76	HDC 40D TSBU 1M25G	1787010000
M 32	w. threading		76	HDC 40D TSBU 1M32G	1787000000



Plug housing, cable entry at top



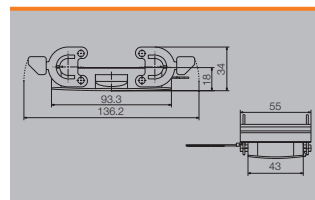
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 16B TOBU 1M25G	1788210000
M 25	w. threading		76	HDC 40D TOBU 1M25G	1787070000
M 32	w. threading		76	HDC 40D TOBU 1M32G	1787060000



Cover



Version	Type	Order No.
For hoods (upper parts of housings)	HDC 16B DMDQ 2QB	1665270000

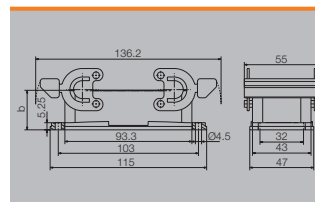


Base

Bulkhead housing



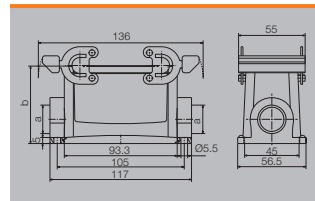
Version	Cover	b (mm)	Type	Order No.
		29	HDC 16B ABU	1208600000



Base housing



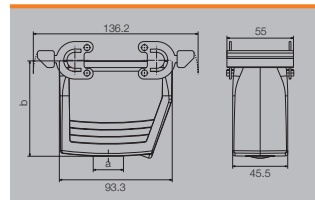
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		64	HDC 16B SBU 2M25G	1788240000
M 25	w. threading		84	HDC 40D SBU 2M25G	1787120000
M 32	w. threading		84	HDC 40D SBU 2M32G	1787110000



Coupling housing



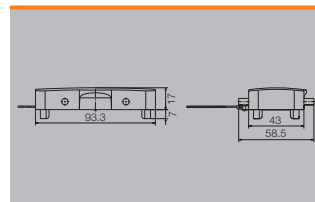
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		79	HDC 40D KBU 1M25G	1787200000
M 32	w. threading		79	HDC 40D KBU 1M32G	1787190000



Cover

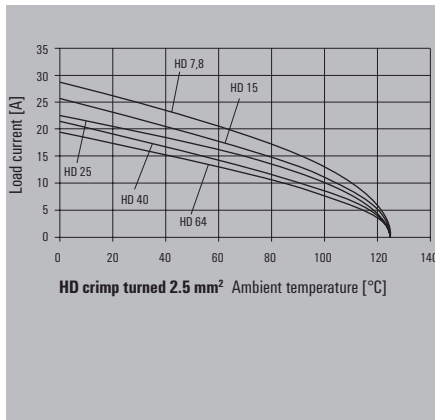
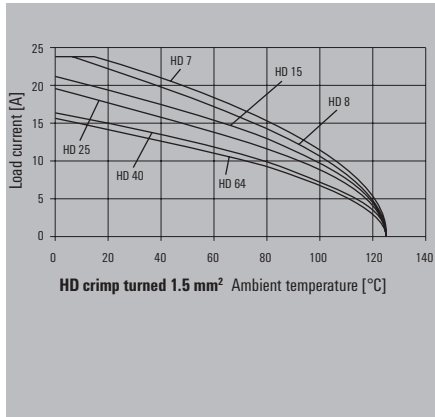


Version	Type	Order No.
For bases (lower parts of housings)	HDC 16B DDDQ 4B0	1665260000

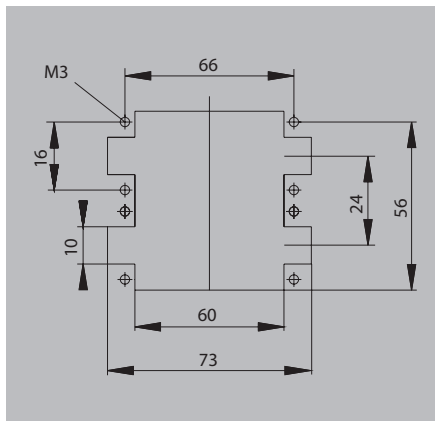


250 V, 10 A, size 7

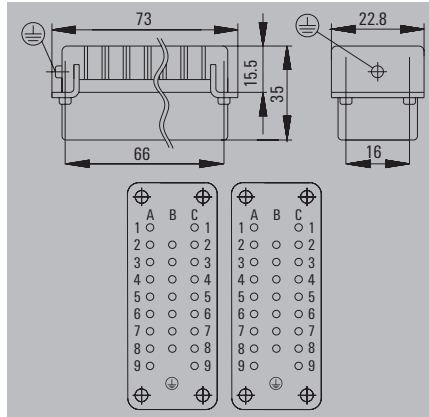
50 + ⊕



Installation cut-out



Male



Ordering data

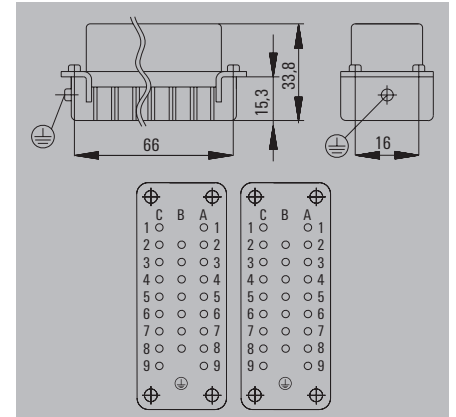
Type of connection	Type	Qty.	Order No.
Crimp connection	HDC HD 25 MC	1	1650810000
Crimp connection	HDC HD 25 MC Z	1	1023040000

Please use this insert type doubled for size 7 (50-pole). We recommend the use of guide pins and sockets.

Accessories

Type	Qty.	Order No.
Crimp contacts, male - gold		
HDC-C-HD-SM0.14-0.37AU	100	1651620000
HDC-C-HD-SM0.5AU	100	1651630000
HDC-C-HD-SM0.75-1.00AU	100	1651640000
HDC-C-HD-SM1.5AU	100	1651650000
HDC-C-HD-SM2.5AU	100	1651660000
Crimp contacts, male - silver		
HDC-C-HD-SM0.14-0.37AG	100	1651520000
HDC-C-HD-SM0.5AG	100	1651530000
HDC-C-HD-SM0.75-1.00AG	100	1601750000
HDC-C-HD-SM1.5AG	100	1651550000
HDC-C-HD-SM2.5AG	100	1651560000
Tools		
CTX CM 1.6/2.5	1	9018490000
REMOVAL TOOL HD	1	1866730000

Female



Ordering data

Type of connection	Type	Qty.	Order No.
Crimp connection	HDC HD 25 FC	1	1650820000
Crimp connection	HDC HD 25 FC Z	1	1023050000

Please use this insert type doubled for size 7 (50-pole). We recommend the use of guide pins and sockets.

Accessories

Type	Qty.	Order No.
Crimp contacts, female - gold		
HDC-C-HD-BM0.14-0.37AU	100	1651670000
HDC-C-HD-BM0.5AU	100	1651680000
HDC-C-HD-BM0.75-1.00AU	100	1651690000
HDC-C-HD-BM1.5AU	100	1651700000
HDC-C-HD-BM2.5AU	100	1651710000
Crimp contacts, female - silver		
HDC-C-HD-BM0.14-0.37AG	100	1651570000
HDC-C-HD-BM0.5AG	100	1651580000
HDC-C-HD-BM0.75-1.00AG	100	1601760000
HDC-C-HD-BM1.5AG	100	1651600000
HDC-C-HD-BM2.5AG	100	1651610000
Tools		
CTX CM 1.6/2.5	1	9018490000
REMOVAL TOOL HD	1	1866730000

Housing selection RockStar® IP65
Size 7



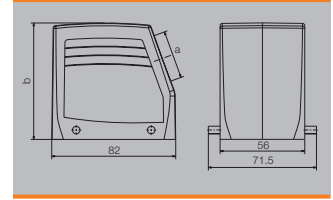
For additional housings, refer to chapter E for IP65

Hood

Plug housing, cable entry sideways



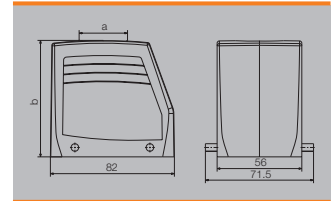
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		75	HDC 32A TSBU 1M25G	1787960000
M 32	w. threading		75	HDC 32A TSBU 1M32G	1787950000



Plug housing, cable entry at top



a	Version	Cover	b (mm)	Type	Order No.
M 32	w. threading		75	HDC 32A TOBU 1M32G	1787990000

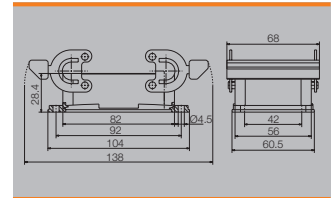


Base

Bulkhead housing



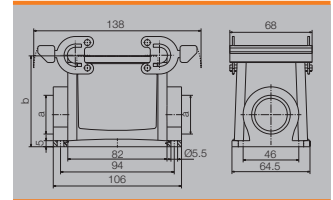
Version	Cover	b (mm)	Type	Order No.
		28.4	HDC 32A ABU	1665860000



Base housing



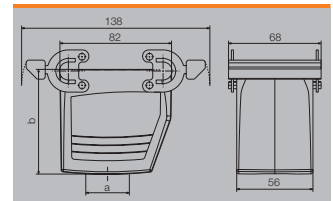
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		75	HDC 32A SBU 2M25G	1788040000



Coupling housing

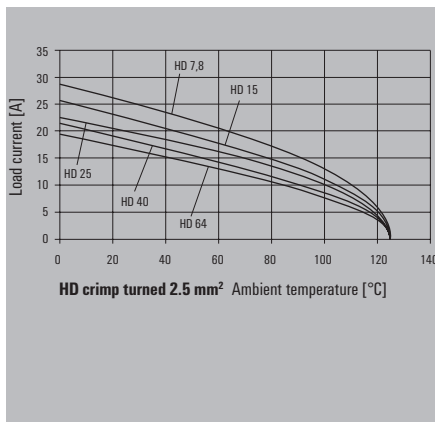
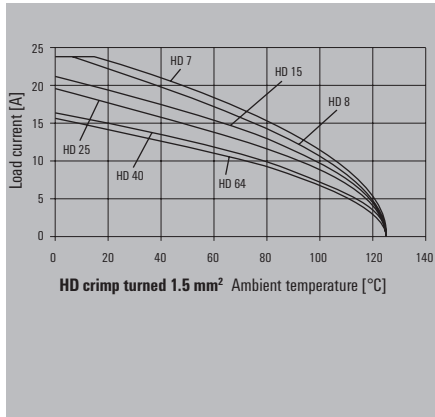


a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		76.5	HDC 32A KBU 1M25G	1788080000
M 32	w. threading		76.5	HDC 32A KBU 1M32G	1788070000

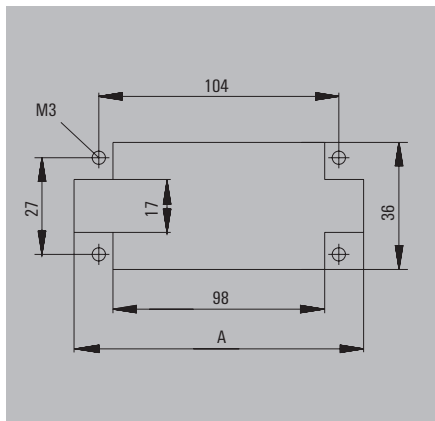


250 V, 10 A, size 8

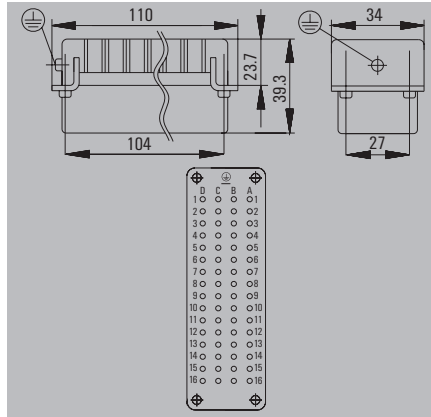
64 + ⊕



Installation cut-out



Male



Ordering data

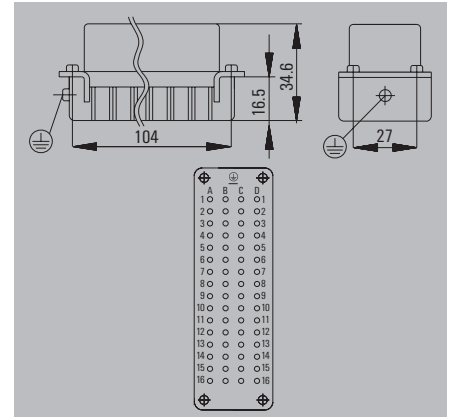
Type of connection	Type	Qty.	Order No.
Crimp connection	HDC HD 64 MC	1	1601720000

Please use this insert type doubled for size 12 (128-pole). We recommend the use of guide pins and sockets.

Accessories

Type	Qty.	Order No.
Crimp contacts, male - gold		
HDC-C-HD-SM0.14-0.37AU	100	1651620000
HDC-C-HD-SM0.5AU	100	1651630000
HDC-C-HD-SM0.75-1.00AU	100	1651640000
HDC-C-HD-SM1.5AU	100	1651650000
HDC-C-HD-SM2.5AU	100	1651660000
Crimp contacts, male - silver		
HDC-C-HD-SM0.14-0.37AG	100	1651520000
HDC-C-HD-SM0.5AG	100	1651530000
HDC-C-HD-SM0.75-1.00AG	100	1601750000
HDC-C-HD-SM1.5AG	100	1651550000
HDC-C-HD-SM2.5AG	100	1651560000
Tools		
CTX CM 1.6/2.5	1	9018490000
REMOVAL TOOL HD	1	1866730000

Female



Ordering data

Type of connection	Type	Qty.	Order No.
Crimp connection	HDC HD 64 FC	1	1601740000

Please use this insert type doubled for size 12 (128-pole). We recommend the use of guide pins and sockets.

Accessories

Type	Qty.	Order No.
Crimp contacts, female - gold		
HDC-C-HD-BM0.14-0.37AU	100	1651670000
HDC-C-HD-BM0.5AU	100	1651680000
HDC-C-HD-BM0.75-1.00AU	100	1651690000
HDC-C-HD-BM1.5AU	100	1651700000
HDC-C-HD-BM2.5AU	100	1651710000
Crimp contacts, female - silver		
HDC-C-HD-BM0.14-0.37AG	100	1651570000
HDC-C-HD-BM0.5AG	100	1651580000
HDC-C-HD-BM0.75-1.00AG	100	1601760000
HDC-C-HD-BM1.5AG	100	1651600000
HDC-C-HD-BM2.5AG	100	1651610000
Tools		
CTX CM 1.6/2.5	1	9018490000
REMOVAL TOOL HD	1	1866730000

Housing selection RockStar® IP65
Size 8

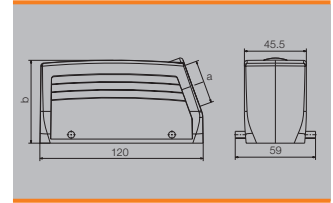


For additional housings, refer to
Chapter E for IP65 / Chapter F for IP68

Plug housing, cable entry sideways



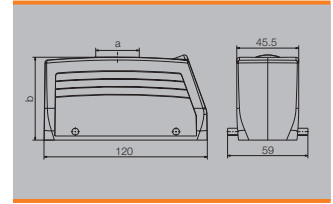
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 24B TSBU 1M25G	1787760000
M 25	w. threading		76	HDC 64D TSBU 1M25G	1786780000
M 32	w. threading		61	HDC 24B TSBU 1M32G	1787750000
M 32	w. threading		76	HDC 64D TSBU 1M32G	1786770000



Plug housing, cable entry at top



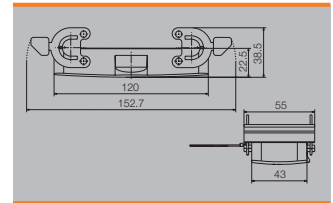
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 24B TOBU 1M25G	1787820000
M 32	w. threading		61	HDC 24B TOBU 1M32G	1787810000
M 32	w. threading		76	HDC 64D TOBU 1M32G	1786830000



Cover



Version	Type	Order No.
For hoods (upper parts of housings)	HDC 24B DMDQ 2QB	1665640000

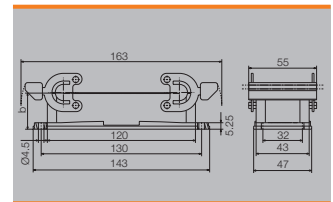


Base

Bulkhead housing



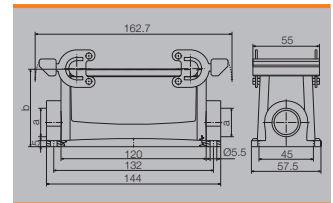
Version	Cover	b (mm)	Type	Order No.
		29.3	HDC 24B ABU	1212400000



Base housing



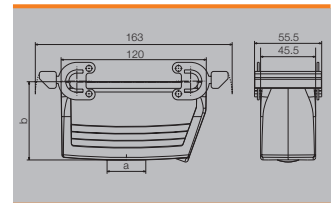
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		64	HDC 24B SBU 2M25G	1787870000
M 25	w. threading		84	HDC 64D SBU 2M25G	1786890000
M 32	w. threading		84	HDC 64D SBU 2M32G	1786880000



Coupling housing



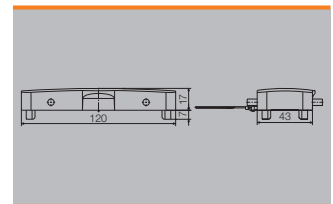
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		65	HDC 24B KBU 1M25G	1787920000
M 32	w. threading		79	HDC 64D KBU 1M32G	1786960000



Cover

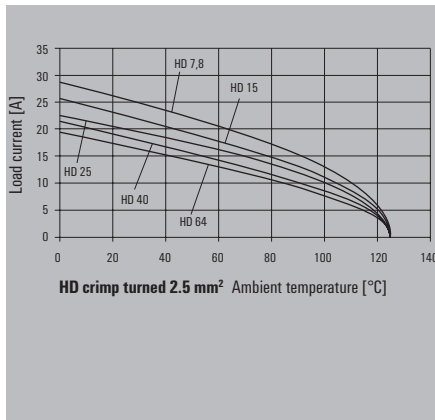
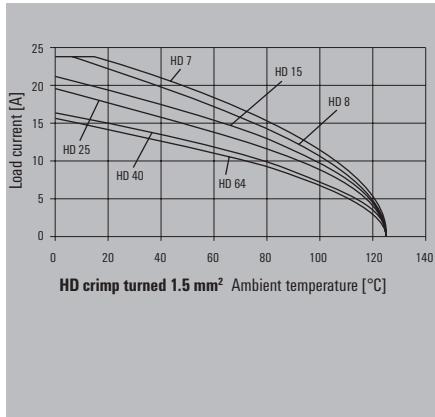


Version	Type	Order No.
For bases (lower parts of housings)	HDC 24B DDDQ 4B0	1665630000

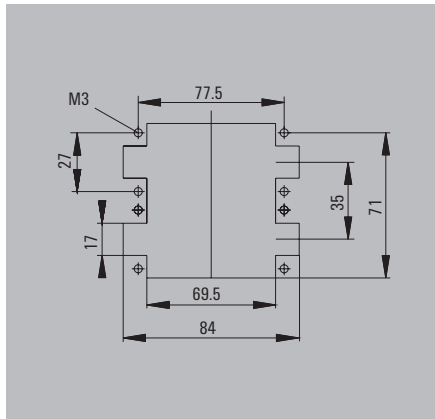


250 V, 10 A, size 10

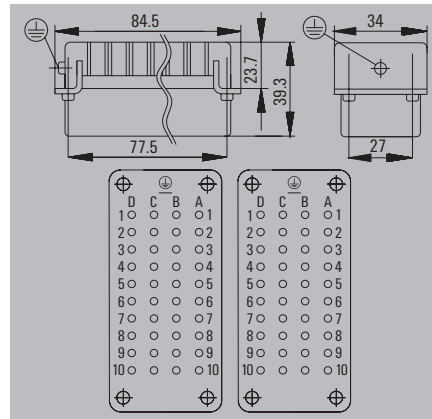
80 + ⊕



Installation cut-out



Male



Ordering data

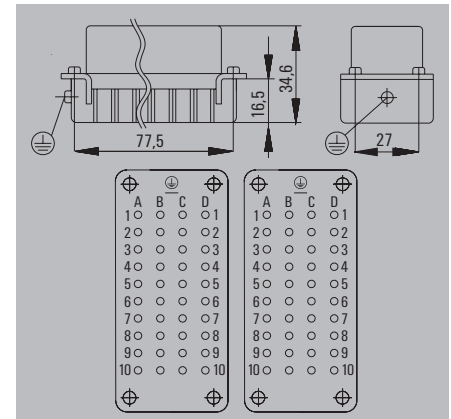
Type of connection	Type	Qty.	Order No.
Crimp connection	HDC HD 40 MC	1	1601710000

Please use this insert type doubled for size 10 (80-pole). We recommend the use of guide pins and sockets.

Accessories

Type	Qty.	Order No.
Crimp contacts, male - gold		
HDC-C-HD-SM0.14-0.37AU	100	1651620000
HDC-C-HD-SM0.5AU	100	1651630000
HDC-C-HD-SM0.75-1.00AU	100	1651640000
HDC-C-HD-SM1.5AU	100	1651650000
HDC-C-HD-SM2.5AU	100	1651660000
Crimp contacts, male - silver		
HDC-C-HD-SM0.14-0.37AG	100	1651520000
HDC-C-HD-SM0.5AG	100	1651530000
HDC-C-HD-SM0.75-1.00AG	100	1601750000
HDC-C-HD-SM1.5AG	100	1651550000
HDC-C-HD-SM2.5AG	100	1651560000
Tools		
CTX CM 1.6/2.5	1	9018490000
REMOVAL TOOL HD	1	1866730000

Female



Ordering data

Type of connection	Type	Qty.	Order No.
Crimp connection	HDC HD 40 FC	1	1601730000

Please use this insert type doubled for size 10 (80-pole). We recommend the use of guide pins and sockets.

Accessories

Type	Qty.	Order No.
Crimp contacts, female - gold		
HDC-C-HD-BM0.14-0.37AU	100	1651670000
HDC-C-HD-BM0.5AU	100	1651680000
HDC-C-HD-BM0.75-1.00AU	100	1651690000
HDC-C-HD-BM1.5AU	100	1651700000
HDC-C-HD-BM2.5AU	100	1651710000
Crimp contacts, female - silver		
HDC-C-HD-BM0.14-0.37AG	100	1651570000
HDC-C-HD-BM0.5AG	100	1651580000
HDC-C-HD-BM0.75-1.00AG	100	1601760000
HDC-C-HD-BM1.5AG	100	1651600000
HDC-C-HD-BM2.5AG	100	1651610000
Tools		
CTX CM 1.6/2.5	1	9018490000
REMOVAL TOOL HD	1	1866730000

Housing selection RockStar® IP65
Size 10



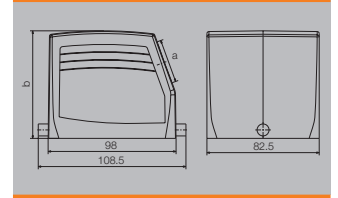
For additional housings, refer to chapter E for IP65

Hood

Plug housing, cable entry sideways



a	Version	Cover	b (mm)	Type	Order No.
M 32	w. threading		79	HDC 32B TSLU 1M32G	1788420000

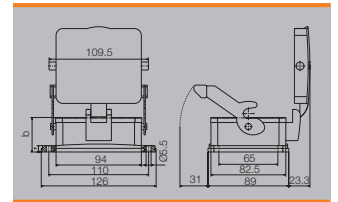


Base

Bulkhead housing



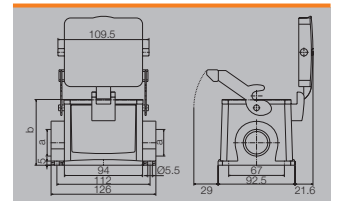
Version	Cover	b (mm)	Type	Order No.
		38	HDC 32B ALU	1219500000
	with cover	55	HDC 32B ADLU	1219800000



Base housing



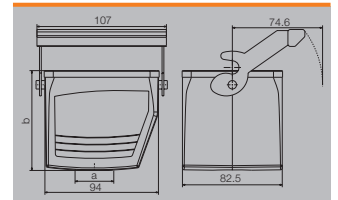
a	Version	Cover	b (mm)	Type	Order No.
M 32	w. threading		79	HDC 32B SLU 2M32G	1788470000
M 32	w. threading	with cover	96	HDC 32B SDLU 2M32G	1788490000



Coupling housing

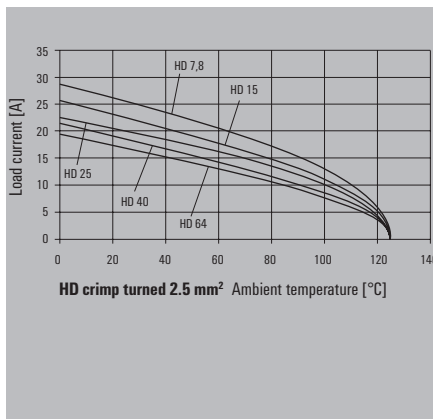
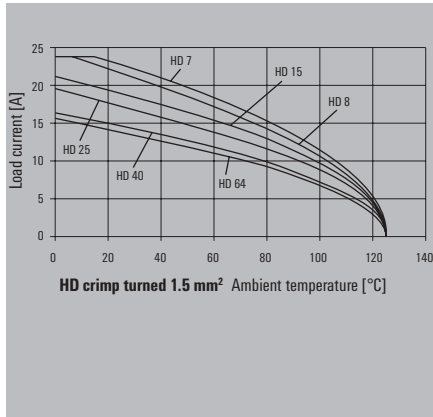


a	Version	Cover	b (mm)	Type	Order No.
M 32	w. threading		83	HDC 32B KLU 1M32G	1788500000

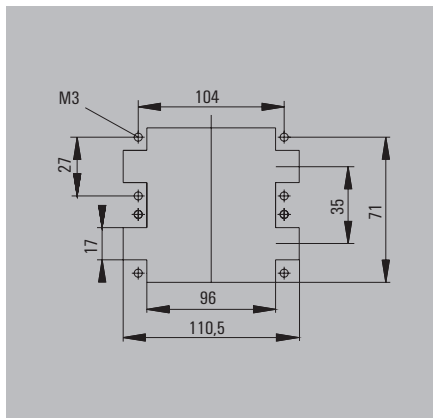


250 V, 10 A, size 12

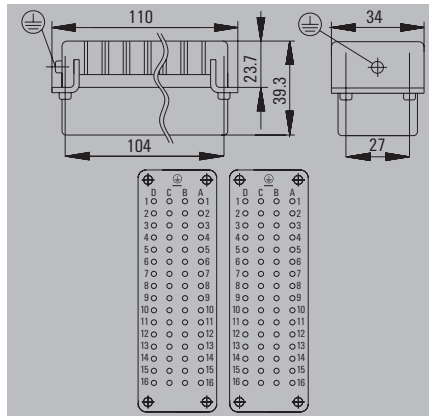
128 + ⊕



Installation cut-out



Male



Ordering data

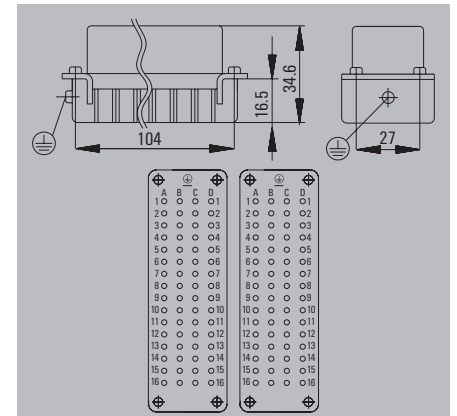
Type of connection	Type	Qty.	Order No.
Crimp connection	HDC HD 64 MC	1	1601720000

Please use this insert type doubled for size 12 (128-pole). We recommend the use of guide pins and sockets.

Accessories

Type	Qty.	Order No.
Crimp contacts, male - gold		
HDC-C-HD-SM0.14-0.37AU	100	1651620000
HDC-C-HD-SM0.5AU	100	1651630000
HDC-C-HD-SM0.75-1.00AU	100	1651640000
HDC-C-HD-SM1.5AU	100	1651650000
HDC-C-HD-SM2.5AU	100	1651660000
Crimp contacts, male - silver		
HDC-C-HD-SM0.14-0.37AG	100	1651520000
HDC-C-HD-SM0.5AG	100	1651530000
HDC-C-HD-SM0.75-1.00AG	100	1601750000
HDC-C-HD-SM1.5AG	100	1651550000
HDC-C-HD-SM2.5AG	100	1651560000
Tools		
CTX CM 1.6/2.5	1	9018490000
REMOVAL TOOL HD	1	1866730000

Female



Ordering data

Type of connection	Type	Qty.	Order No.
Crimp connection	HDC HD 64 FC	1	1601740000

Please use this insert type doubled for size 12 (128-pole). We recommend the use of guide pins and sockets.

Accessories

Type	Qty.	Order No.
Crimp contacts, female - gold		
HDC-C-HD-BM0.14-0.37AU	100	1651670000
HDC-C-HD-BM0.5AU	100	1651680000
HDC-C-HD-BM0.75-1.00AU	100	1651690000
HDC-C-HD-BM1.5AU	100	1651700000
HDC-C-HD-BM2.5AU	100	1651710000
Crimp contacts, female - silver		
HDC-C-HD-BM0.14-0.37AG	100	1651570000
HDC-C-HD-BM0.5AG	100	1651580000
HDC-C-HD-BM0.75-1.00AG	100	1601760000
HDC-C-HD-BM1.5AG	100	1651600000
HDC-C-HD-BM2.5AG	100	1651610000
Tools		
CTX CM 1.6/2.5	1	9018490000
REMOVAL TOOL HD	1	1866730000

Housing selection RockStar® IP65
Size 12



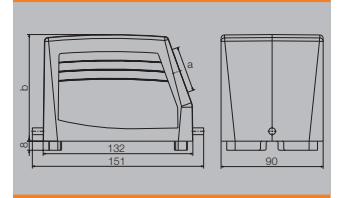
For additional housings, refer to chapter E for IP65

Hood

Plug housing, cable entry sideways



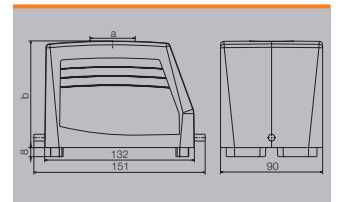
a	Version	Cover	b (mm)	Type	Order No.
M 32	w. threading		94	HDC 48B TSLU 1M32G	1788320000
M 40	w. threading		94	HDC 48B TSLU 1M40G	1788310000
M 50	w. threading		94	HDC 48B TSLU 1M50G	1788330000



Plug housing, cable entry at top



a	Version	Cover	b (mm)	Type	Order No.
M 32	w. threading		94	HDC 48B TOLU 1M32G	1788350000
M 50	w. threading		94	HDC 48B TOLU 1M50G	1788330000

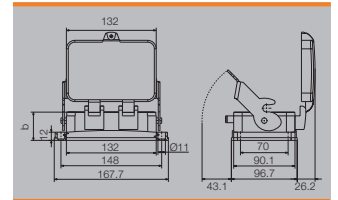


Base

Bulkhead housing



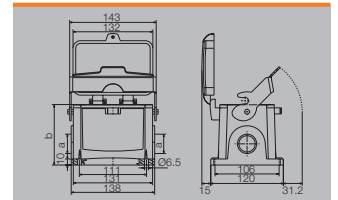
Version	Cover	b (mm)	Type	Order No.
	with cover	62	HDC 48B ADLU	1222900000



Base housing

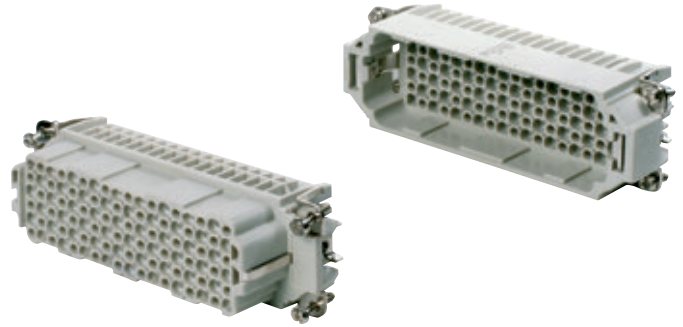


a	Version	Cover	b (mm)	Type	Order No.
M 32	w. threading		100	HDC 48B SLU 2M32G	1788370000
M 32	w. threading	with cover	120	HDC 48B SDLU 2M32G	1788390000
M 40	w. threading		100	HDC 48B SLU 2M40G	1788360000



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	$\geq 10^{10} \Omega$
Material	Glass-fibre reinforced PC (in UL list and approved for railway applications)
Temperature range	-40 °C to +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 gold-plated
Crimp connection	
- Flexible conductor connection	0.14 - 2.5 mm ² (AWG 26 - 14)
- Stripping length	8.0 mm
PE 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 - 1.5 Nm
- Blade dimensions	SD 0.8 x 4 mm or PZ1

Note:

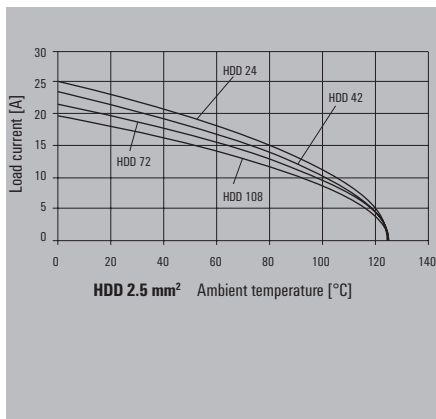
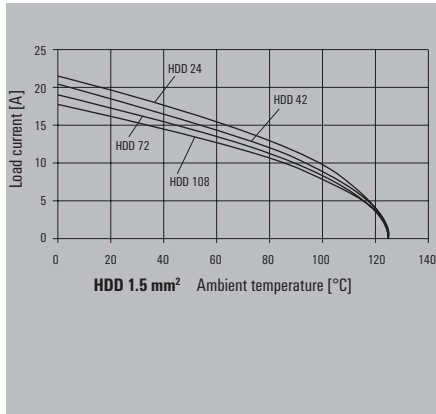
When used properly and as designated, the listed connectors may not be connected or disconnected if there is a live voltage or load!

Overview

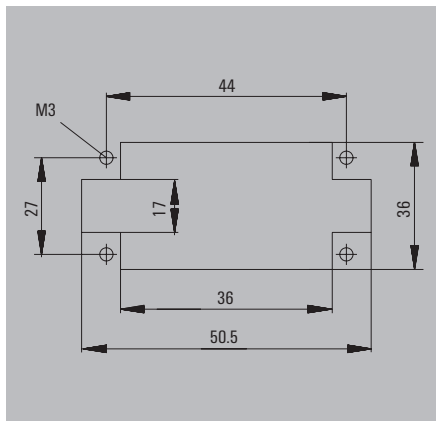
		Size	Rated voltage	Rated current	No. of poles	Tension clamp connection	TOP connection	Screw conn. with wire guard spring	Crimp connection	PUSH IN connection	Page
		3	250 V	10 A	24 + ⊕				•		B.68
		4	250 V	10 A	42 + ⊕				•		B.70
		6	250 V	10 A	72 + ⊕				•		B.72
		8	250 V	10 A	108 + ⊕				•		B.74
		10	250 V	10 A	144 + ⊕				•		B.76
		12	250 V	10 A	216 + ⊕				•		B.78

250 V, 10 A, size 3

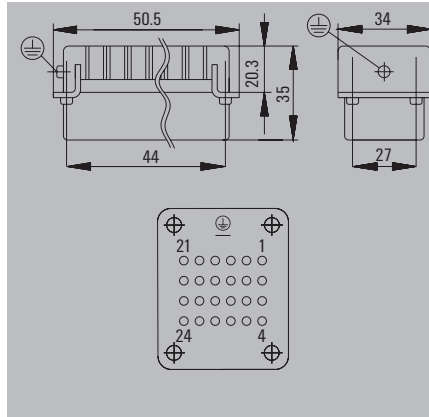
24 + ⊕



Installation cut-out



Male



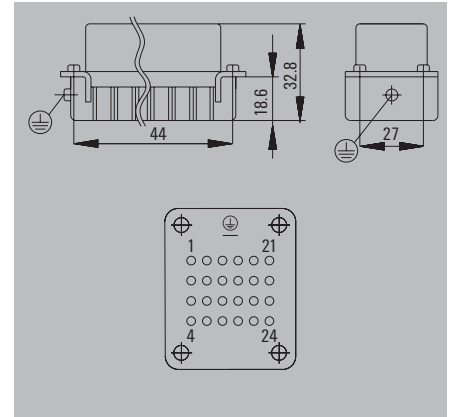
Ordering data

Type of connection	Type	Qty.	Order No.
Crimp connection	HDC HDD 24 MC	1	1651150000

Accessories

Type	Qty.	Order No.
Crimp contacts, male - gold		
HDC-C-HD-SM0.14-0.37AU	100	1651620000
HDC-C-HD-SM0.5AU	100	1651630000
HDC-C-HD-SM0.75-1.00AU	100	1651640000
HDC-C-HD-SM1.5AU	100	1651650000
HDC-C-HD-SM2.5AU	100	1651660000
Crimp contacts, male - silver		
HDC-C-HD-SM0.14-0.37AG	100	1651520000
HDC-C-HD-SM0.5AG	100	1651530000
HDC-C-HD-SM0.75-1.00AG	100	1601750000
HDC-C-HD-SM1.5AG	100	1651550000
HDC-C-HD-SM2.5AG	100	1651560000
Tools		
CTX CM 1.6/2.5	1	9018490000
REMOVAL TOOL HD	1	1866730000

Female



Ordering data

Type of connection	Type	Qty.	Order No.
Crimp connection	HDC HDD 24 FC	1	1651160000

Accessories

Type	Qty.	Order No.
Crimp contacts, female - gold		
HDC-C-HD-BM0.14-0.37AU	100	1651670000
HDC-C-HD-BM0.5AU	100	1651680000
HDC-C-HD-BM0.75-1.00AU	100	1651690000
HDC-C-HD-BM1.5AU	100	1651700000
HDC-C-HD-BM2.5AU	100	1651710000
Crimp contacts, female - silver		
HDC-C-HD-BM0.14-0.37AG	100	1651570000
HDC-C-HD-BM0.5AG	100	1651580000
HDC-C-HD-BM0.75-1.00AG	100	1601760000
HDC-C-HD-BM1.5AG	100	1651600000
HDC-C-HD-BM2.5AG	100	1651610000
Tools		
CTX CM 1.6/2.5	1	9018490000
REMOVAL TOOL HD	1	1866730000

Housing selection RockStar® IP65
Size 3



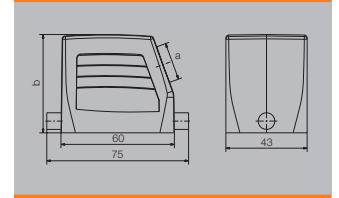
For additional housings, refer to
Chapter E for IP65 / Chapter F for IP68

Hood

Plug housing, cable entry sideways



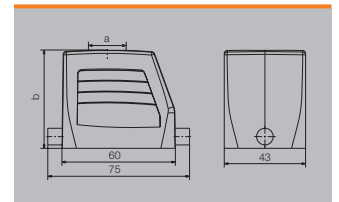
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		52	HDC 06B TSLU 1M20G	1788100000
M 25	w. threading		52	HDC 06B TSLU 1M25G	1788090000
M 25	w. threading		72	HDC 16D TSLU 1M25G	1787480000



Plug housing, cable entry at top



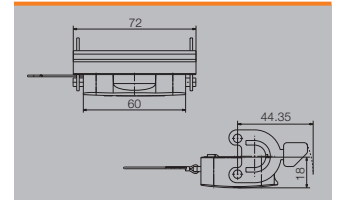
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		52	HDC 06B TOLU 1M20G	1788120000
M 25	w. threading		52	HDC 06B TOLU 1M25G	1788110000
M 25	w. threading		72	HDC 16D TOLU 1M25G	1787500000
M 32	w. threading		72	HDC 16D TOLU 1M32G	1787490000



Cover



Version	Type	Order No.
For hoods (upper parts of housings)	HDC 06B DMOL 1LB	1665210000

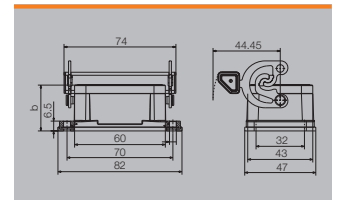


Base

Bulkhead housing



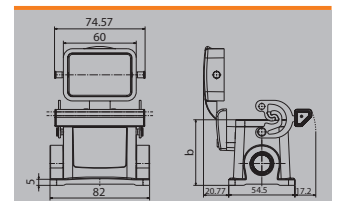
Version	Cover	b (mm)	Type	Order No.
		29	HDC 06B ALU	1202100000
	with cover	47	HDC 06B ADLU	1202500000



Base housing



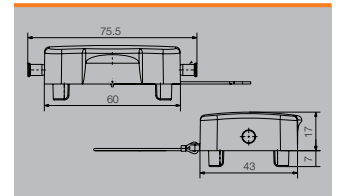
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		54	HDC 06B SLU 2M20G	1788140000
M 20	w. threading	with cover	72	HDC 06B SDLU 2M20G	1788170000
M 25	w. threading		54	HDC 06B SLU 2M25G	1788130000
M 25	w. threading	with cover	72	HDC 06B SDLU 2M25G	1788160000



Cover

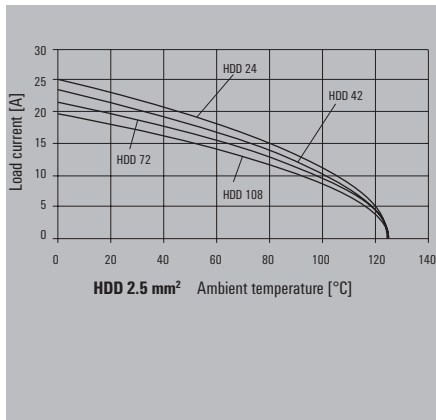
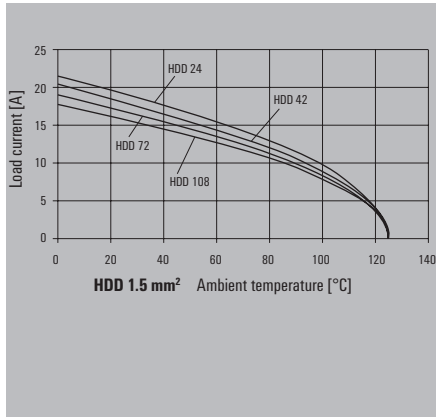


Version	Type	Order No.
For bases (lower parts of housings)	HDC 06B DODL 2B0	1665200000

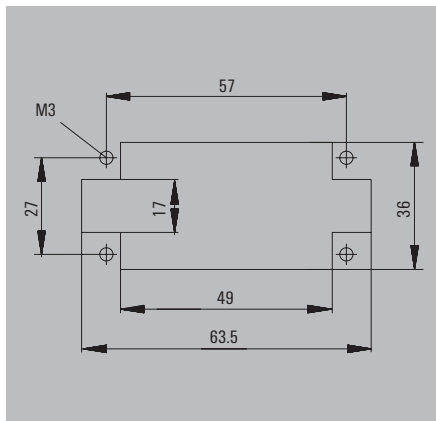


250 V, 10 A, size 4

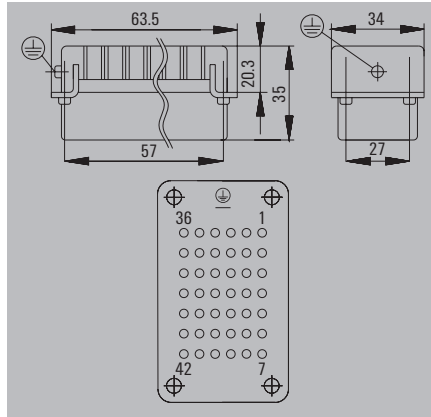
42 + ⊕



Installation cut-out



Male



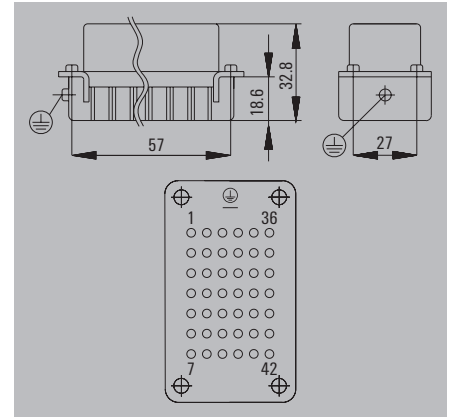
Ordering data

Type of connection	Type	Qty.	Order No.
Crimp connection	HDC HDD 42 MC	1	1651170000

Accessories

Type	Qty.	Order No.
Crimp contacts, male - gold		
HDC-C-HD-SM0.14-0.37AU	100	1651620000
HDC-C-HD-SM0.5AU	100	1651630000
HDC-C-HD-SM0.75-1.00AU	100	1651640000
HDC-C-HD-SM1.5AU	100	1651650000
HDC-C-HD-SM2.5AU	100	1651660000
Crimp contacts, male - silver		
HDC-C-HD-SM0.14-0.37AG	100	1651520000
HDC-C-HD-SM0.5AG	100	1651530000
HDC-C-HD-SM0.75-1.00AG	100	1601750000
HDC-C-HD-SM1.5AG	100	1651550000
HDC-C-HD-SM2.5AG	100	1651560000
Tools		
CTX CM 1.6/2.5	1	9018490000
REMOVAL TOOL HD	1	1866730000

Female



Ordering data

Type of connection	Type	Qty.	Order No.
Crimp connection	HDC HDD 42 FC	1	1651180000

Accessories

Type	Qty.	Order No.
Crimp contacts, female - gold		
HDC-C-HD-BM0.14-0.37AU	100	1651670000
HDC-C-HD-BM0.5AU	100	1651680000
HDC-C-HD-BM0.75-1.00AU	100	1651690000
HDC-C-HD-BM1.5AU	100	1651700000
HDC-C-HD-BM2.5AU	100	1651710000
Crimp contacts, female - silver		
HDC-C-HD-BM0.14-0.37AG	100	1651570000
HDC-C-HD-BM0.5AG	100	1651580000
HDC-C-HD-BM0.75-1.00AG	100	1601760000
HDC-C-HD-BM1.5AG	100	1651600000
HDC-C-HD-BM2.5AG	100	1651610000
Tools		
CTX CM 1.6/2.5	1	9018490000
REMOVAL TOOL HD	1	1866730000

Housing selection RockStar® IP65
Size 4

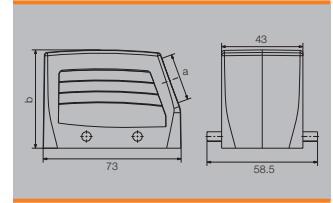


For additional housings, refer to
Chapter E for IP65 / Chapter F for IP68

Plug housing, cable entry sideways



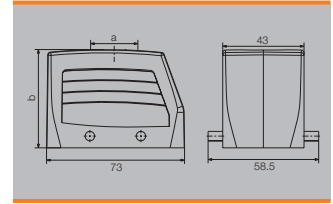
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		52	HDC 10B TSBU 1M20G	1787560000
M 25	w. threading		52	HDC 10B TSBU 1M25G	1787550000
M 25	w. threading		72	HDC 24D TSBU 1M25G	1787240000
M 32	w. threading		72	HDC 24D TSBU 1M32G	1787230000



Plug housing, cable entry at top



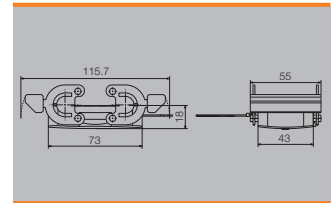
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		52	HDC 10B TOBU 1M20G	1787600000
M 25	w. threading		52	HDC 10B TOBU 1M25G	1787590000
M 25	w. threading		72	HDC 24D TOBU 1M25G	1787300000
M 32	w. threading		72	HDC 24D TOBU 1M32G	1787290000



Cover



Version	Type	Order No.
For hoods (upper parts of housings)	HDC 10B DMDQ 2QB	1665240000

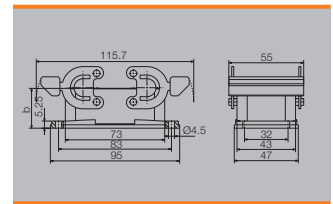


Base

Bulkhead housing



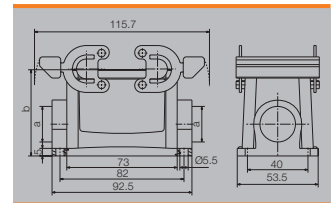
Version	Cover	b (mm)	Type	Order No.
		29.3	HDC 10B ABU	1205000000



Base housing



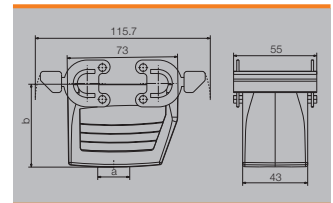
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		57	HDC 10B SBU 2M20G	1787640000
M 25	w. threading		57	HDC 10B SBU 2M25G	1787630000



Coupling housing



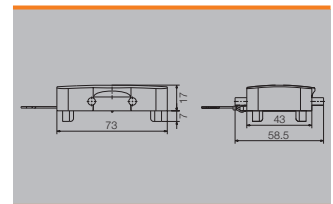
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		55	HDC 10B KBU 1M20G	1787720000



Cover

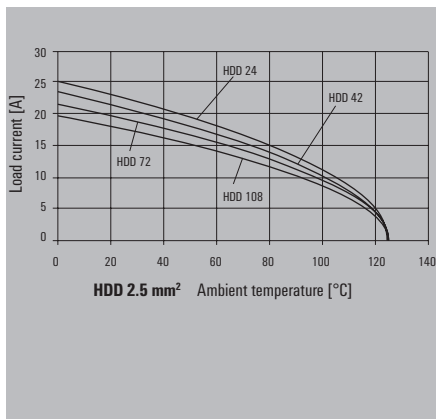
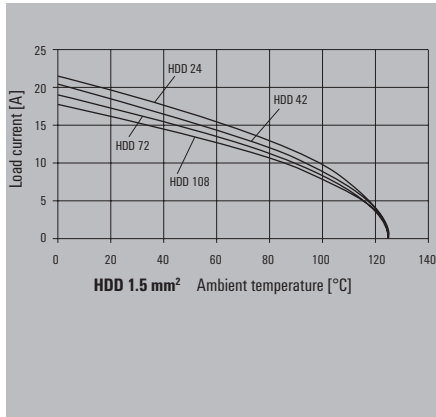


Version	Type	Order No.
For bases (lower parts of housings)	HDC 10B DDDQ 4B0	1665230000

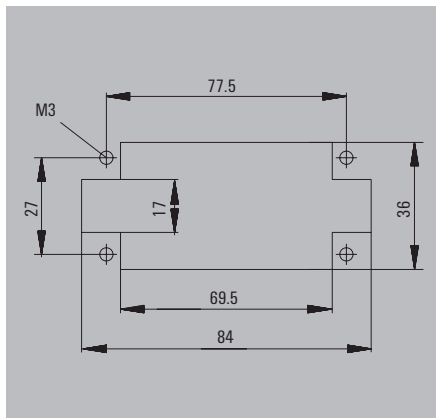


250 V, 10 A, size 6

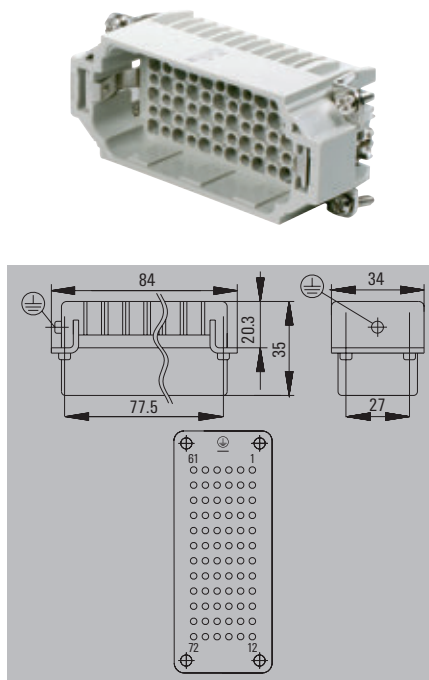
72 + ⊕



Installation cut-out



Male



Ordering data

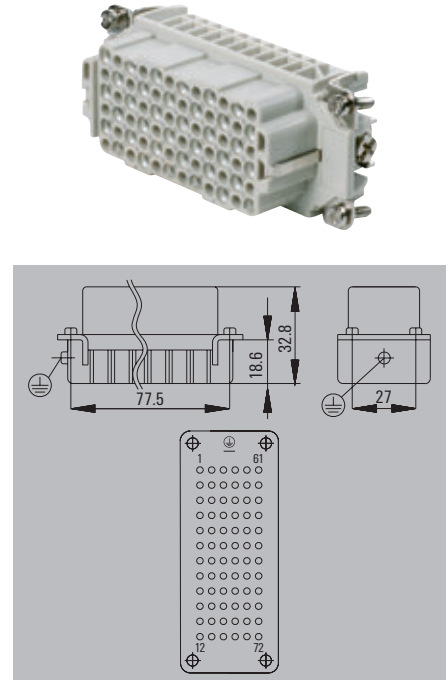
Type of connection	Type	Qty.	Order No.
Crimp connection	HDC HDD 72 MC	1	1651190000

We recommend the use of guide pins and sockets.

Accessories

Type	Qty.	Order No.
Crimp contacts, male - gold		
HDC-C-HD-SM0.14-0.37AU	100	1651620000
HDC-C-HD-SM0.5AU	100	1651630000
HDC-C-HD-SM0.75-1.00AU	100	1651640000
HDC-C-HD-SM1.5AU	100	1651650000
HDC-C-HD-SM2.5AU	100	1651660000
Crimp contacts, male - silver		
HDC-C-HD-SM0.14-0.37AG	100	1651520000
HDC-C-HD-SM0.5AG	100	1651530000
HDC-C-HD-SM0.75-1.00AG	100	1601750000
HDC-C-HD-SM1.5AG	100	1651550000
HDC-C-HD-SM2.5AG	100	1651560000
Tools		
CTX CM 1.6/2.5	1	9018490000
REMOVAL TOOL HD	1	1866730000

Female



Ordering data

Type of connection	Type	Qty.	Order No.
Crimp connection	HDC HDD 72 FC	1	1651200000

We recommend the use of guide pins and sockets.

Accessories

Type	Qty.	Order No.
Crimp contacts, female - gold		
HDC-C-HD-BM0.14-0.37AU	100	1651670000
HDC-C-HD-BM0.5AU	100	1651680000
HDC-C-HD-BM0.75-1.00AU	100	1651690000
HDC-C-HD-BM1.5AU	100	1651700000
HDC-C-HD-BM2.5AU	100	1651710000
Crimp contacts, female - silver		
HDC-C-HD-BM0.14-0.37AG	100	1651570000
HDC-C-HD-BM0.5AG	100	1651580000
HDC-C-HD-BM0.75-1.00AG	100	1601760000
HDC-C-HD-BM1.5AG	100	1651600000
HDC-C-HD-BM2.5AG	100	1651610000
Tools		
CTX CM 1.6/2.5	1	9018490000
REMOVAL TOOL HD	1	1866730000

Housing selection RockStar® IP65
Size 6

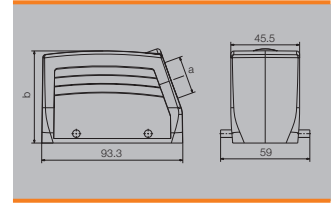


For additional housings, refer to
Chapter E for IP65 / Chapter F for IP68

Plug housing, cable entry sideways



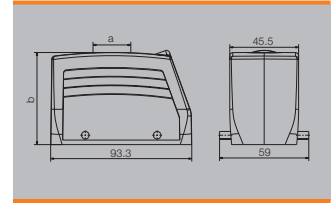
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 16B TSBU 1M25G	1788180000
M 25	w. threading		76	HDC 40D TSBU 1M25G	1787010000
M 32	w. threading		76	HDC 40D TSBU 1M32G	1787000000



Plug housing, cable entry at top



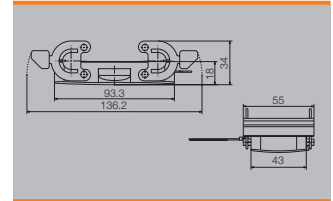
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 16B TOBU 1M25G	1788210000
M 25	w. threading		76	HDC 40D TOBU 1M25G	1787070000
M 32	w. threading		76	HDC 40D TOBU 1M32G	1787060000



Cover



Version	Type	Order No.
For hoods (upper parts of housings)	HDC 16B DMDQ 2QB	1665270000

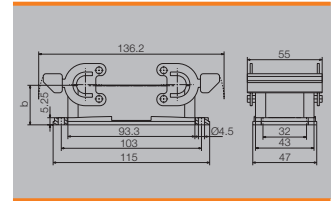


Base

Bulkhead housing



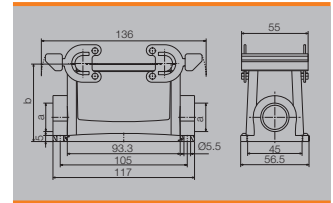
Version	Cover	b (mm)	Type	Order No.
		29	HDC 16B ABU	1208600000



Base housing



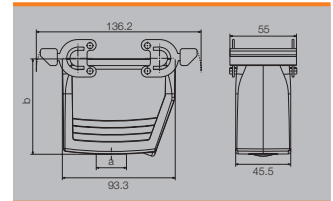
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		64	HDC 16B SBU 2M25G	1788240000
M 25	w. threading		84	HDC 40D SBU 2M25G	1787120000
M 32	w. threading		84	HDC 40D SBU 2M32G	1787110000



Coupling housing



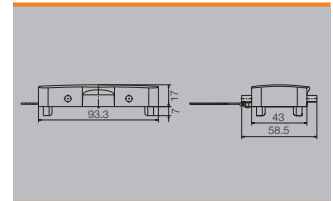
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		79	HDC 40D KBU 1M25G	1787200000
M 32	w. threading		79	HDC 40D KBU 1M32G	1787190000



Cover

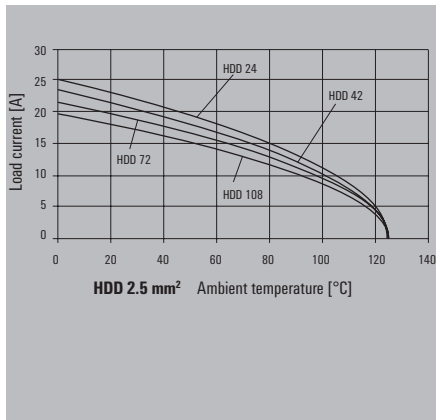
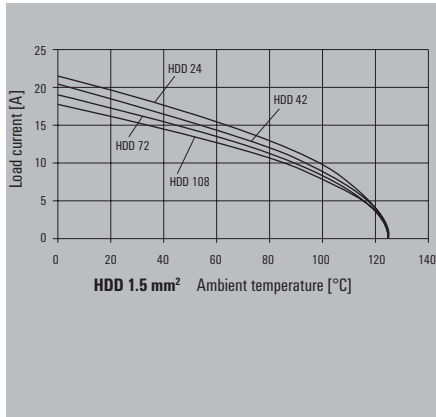


Version	Type	Order No.
For bases (lower parts of housings)	HDC 16B DDDQ 4B0	1665260000

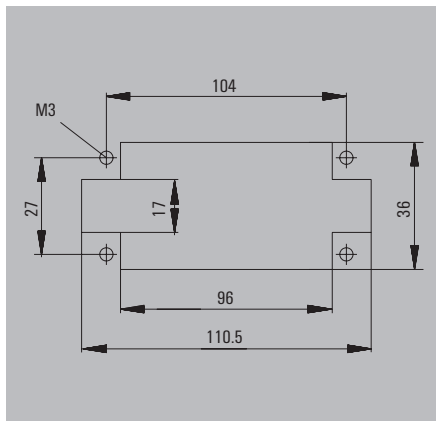


250 V, 10 A, size 8

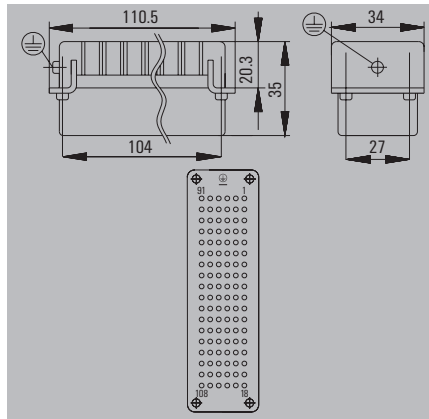
108 + ⊕



Installation cut-out



Male



Ordering data

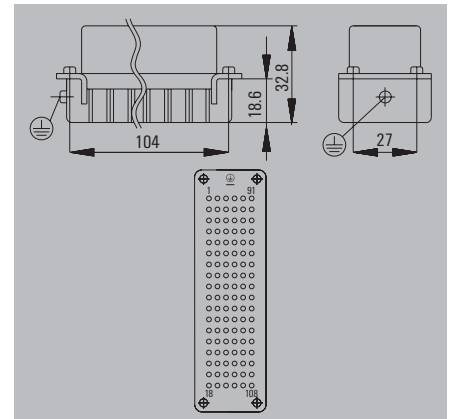
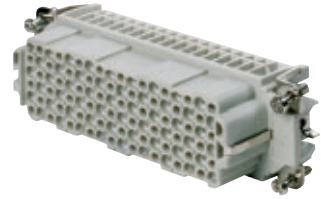
Type of connection	Type	Qty.	Order No.
Crimp connection	HDC HDD 108 MC	1	1651210000

We recommend the use of guide pins and sockets.

Accessories

Type	Qty.	Order No.
Crimp contacts, male - gold		
HDC-C-HD-SM0.14-0.37AU	100	1651620000
HDC-C-HD-SM0.5AU	100	1651630000
HDC-C-HD-SM0.75-1.00AU	100	1651640000
HDC-C-HD-SM1.5AU	100	1651650000
HDC-C-HD-SM2.5AU	100	1651660000
Crimp contacts, male - silver		
HDC-C-HD-SM0.14-0.37AG	100	1651520000
HDC-C-HD-SM0.5AG	100	1651530000
HDC-C-HD-SM0.75-1.00AG	100	1601750000
HDC-C-HD-SM1.5AG	100	1651550000
HDC-C-HD-SM2.5AG	100	1651560000
Tools		
CTX CM 1.6/2.5	1	9018490000
REMOVAL TOOL HD	1	1866730000

Female



Ordering data

Type of connection	Type	Qty.	Order No.
Crimp connection	HDC HDD 108 FC	1	1651220000

We recommend the use of guide pins and sockets.

Accessories

Type	Qty.	Order No.
Crimp contacts, female - gold		
HDC-C-HD-BM0.14-0.37AU	100	1651670000
HDC-C-HD-BM0.5AU	100	1651680000
HDC-C-HD-BM0.75-1.00AU	100	1651690000
HDC-C-HD-BM1.5AU	100	1651700000
HDC-C-HD-BM2.5AU	100	1651710000
Crimp contacts, female - silver		
HDC-C-HD-BM0.14-0.37AG	100	1651570000
HDC-C-HD-BM0.5AG	100	1651580000
HDC-C-HD-BM0.75-1.00AG	100	1601760000
HDC-C-HD-BM1.5AG	100	1651600000
HDC-C-HD-BM2.5AG	100	1651610000
Tools		
CTX CM 1.6/2.5	1	9018490000
REMOVAL TOOL HD	1	1866730000

Housing selection RockStar® IP65
Size 8



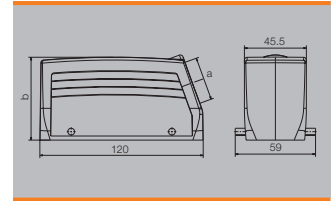
For additional housings, refer to
Chapter E for IP65 / Chapter F for IP68

Hood

Plug housing, cable entry sideways



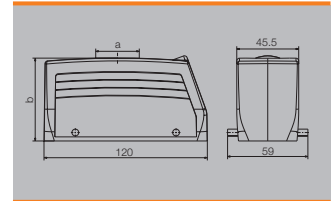
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 24B TSBU 1M25G	1787760000
M 25	w. threading		76	HDC 64D TSBU 1M25G	1786780000
M 32	w. threading		61	HDC 24B TSBU 1M32G	1787750000
M 32	w. threading		76	HDC 64D TSBU 1M32G	1786770000



Plug housing, cable entry at top



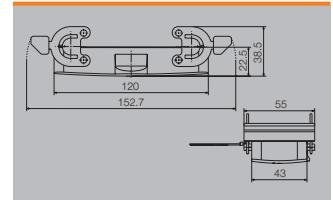
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 24B TOBU 1M25G	1787820000
M 32	w. threading		61	HDC 24B TOBU 1M32G	1787810000
M 32	w. threading		76	HDC 64D TOBU 1M32G	1786830000



Cover



Version	Type	Order No.
For hoods (upper parts of housings)	HDC 24B DMDQ 2QB	1665640000

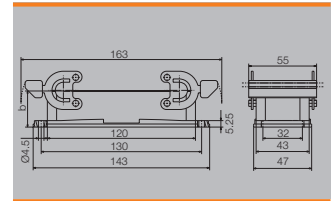


Base

Bulkhead housing



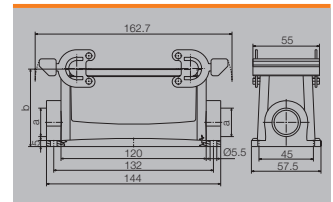
Version	Cover	b (mm)	Type	Order No.
		29.3	HDC 24B ABU	1212400000



Base housing



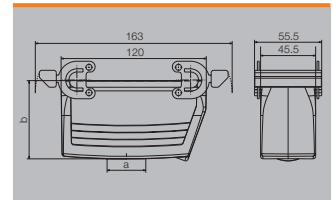
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		64	HDC 24B SBU 2M25G	1787870000
M 25	w. threading		84	HDC 64D SBU 2M25G	1786890000
M 32	w. threading		84	HDC 64D SBU 2M32G	1786880000



Coupling housing



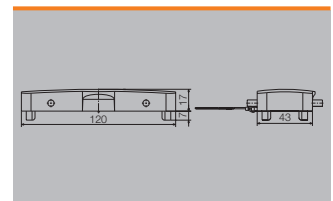
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		65	HDC 24B KBU 1M25G	1787920000
M 32	w. threading		79	HDC 64D KBU 1M32G	1786960000



Cover

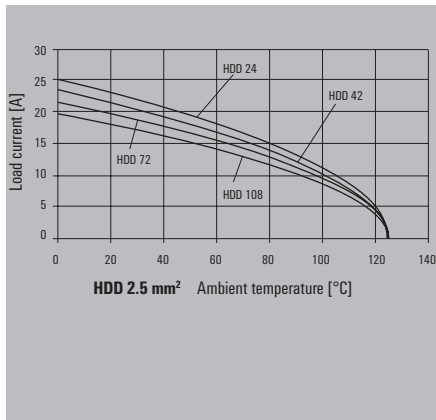
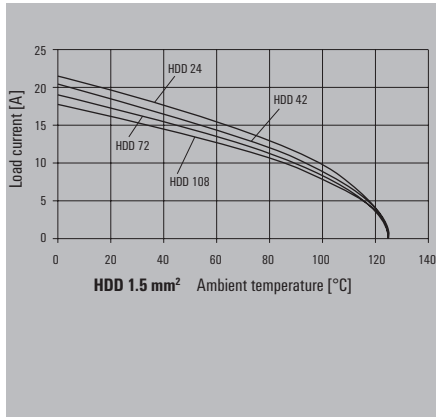


Version	Type	Order No.
For bases (lower parts of housings)	HDC 24B DDDQ 4B0	1665630000

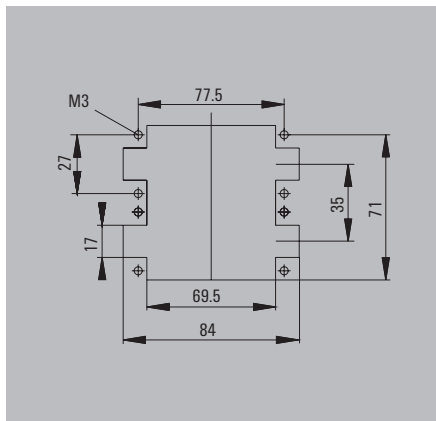


250 V, 10 A, size 10

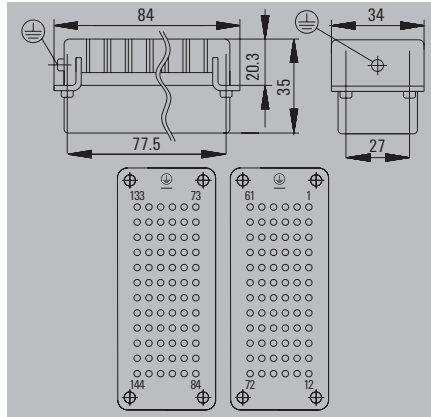
144 + ⊕



Installation cut-out



Male



Ordering data

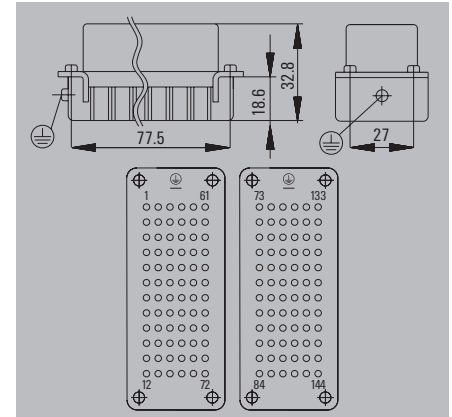
Type of connection	Type	Qty.	Order No.
Crimp connection	HDC HDD 72 MC	1	1651190000
Crimp connection	HDC HDD 72 MC 73-144	1	1651240000

We recommend the use of guide pins and sockets.

Accessories

Type	Qty.	Order No.
Crimp contacts, male - gold		
HDC-C-HD-SM0.14-0.37AU	100	1651620000
HDC-C-HD-SM0.5AU	100	1651630000
HDC-C-HD-SM0.75-1.00AU	100	1651640000
HDC-C-HD-SM1.5AU	100	1651650000
HDC-C-HD-SM2.5AU	100	1651660000
Crimp contacts, male - silver		
HDC-C-HD-SM0.14-0.37AG	100	1651520000
HDC-C-HD-SM0.5AG	100	1651530000
HDC-C-HD-SM0.75-1.00AG	100	1601750000
HDC-C-HD-SM1.5AG	100	1651550000
HDC-C-HD-SM2.5AG	100	1651560000
Tools		
CTX CM 1.6/2.5	1	9018490000
REMOVAL TOOL HD	1	1866730000

Female



Ordering data

Type of connection	Type	Qty.	Order No.
Crimp connection	HDC HDD 72 FC	1	1651200000
Crimp connection	HDC HDD 72 FC 73-144	1	1651260000

We recommend the use of guide pins and sockets.

Accessories

Type	Qty.	Order No.
Crimp contacts, female - gold		
HDC-C-HD-BM0.14-0.37AU	100	1651670000
HDC-C-HD-BM0.5AU	100	1651680000
HDC-C-HD-BM0.75-1.00AU	100	1651690000
HDC-C-HD-BM1.5AU	100	1651700000
HDC-C-HD-BM2.5AU	100	1651710000
Crimp contacts, female - silver		
HDC-C-HD-BM0.14-0.37AG	100	1651570000
HDC-C-HD-BM0.5AG	100	1651580000
HDC-C-HD-BM0.75-1.00AG	100	1601760000
HDC-C-HD-BM1.5AG	100	1651600000
HDC-C-HD-BM2.5AG	100	1651610000
Tools		
CTX CM 1.6/2.5	1	9018490000
REMOVAL TOOL HD	1	1866730000

Housing selection RockStar® IP65
Size 10



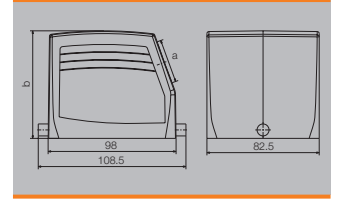
For additional housings, refer to chapter E for IP65

Hood

Plug housing, cable entry sideways



a	Version	Cover	b (mm)	Type	Order No.
M 32	w. threading		79	HDC 32B TSLU 1M32G	1788420000

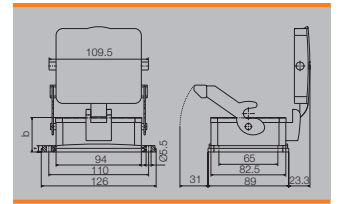


Base

Bulkhead housing



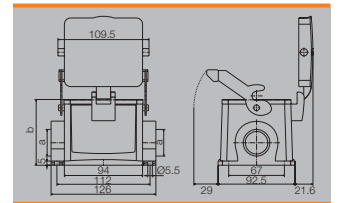
Version	Cover	b (mm)	Type	Order No.
		38	HDC 32B ALU	1219500000
	with cover	55	HDC 32B ADLU	1219800000



Base housing



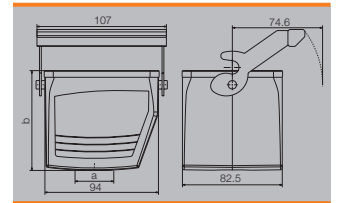
a	Version	Cover	b (mm)	Type	Order No.
M 32	w. threading		79	HDC 32B SLU 2M32G	1788470000
M 32	w. threading	with cover	96	HDC 32B SDLU 2M32G	1788490000



Coupling housing

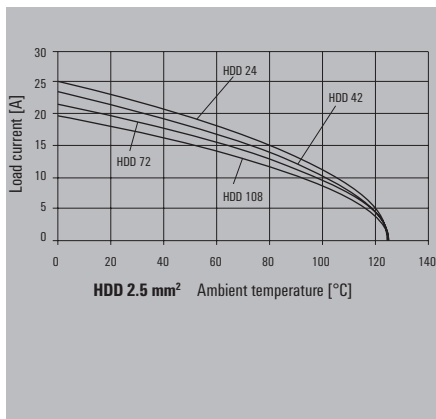
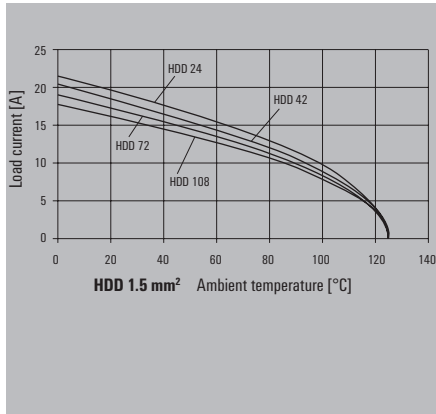


a	Version	Cover	b (mm)	Type	Order No.
M 32	w. threading		83	HDC 32B KLU 1M32G	1788500000

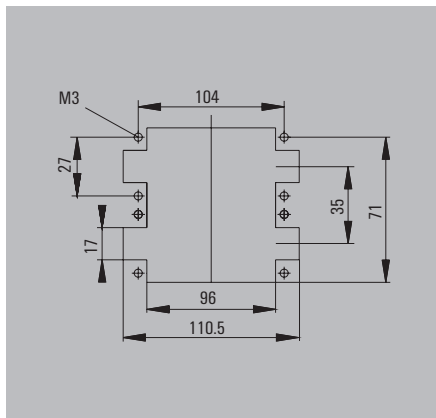


250 V, 10 A, size 12

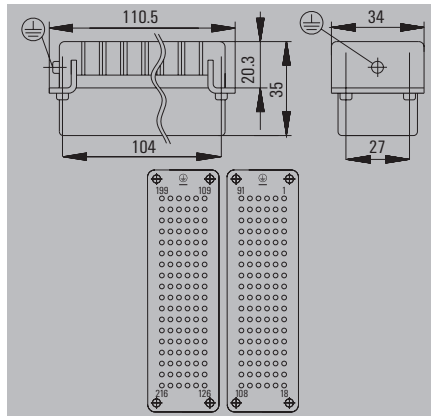
216 + ⊕



Installation cut-out



Male



Ordering data

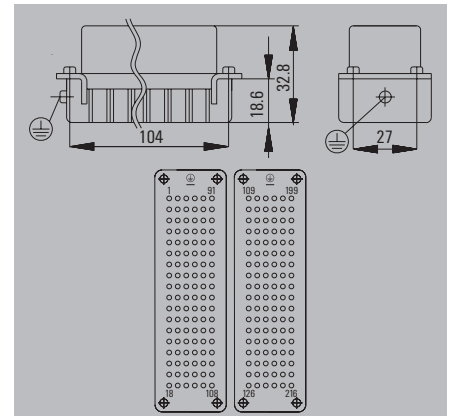
Type of connection	Type	Qty.	Order No.
Crimp connection	HDC HDD 108 MC	1	1651210000
Crimp connection	HDC HDD 108 MC 109-216	1	1651280000

We recommend the use of guide pins and sockets.

Accessories

Type	Qty.	Order No.
Crimp contacts, male - gold		
HDC-C-HD-SM0.14-0.37AU	100	1651620000
HDC-C-HD-SM0.5AU	100	1651630000
HDC-C-HD-SM0.75-1.00AU	100	1651640000
HDC-C-HD-SM1.5AU	100	1651650000
HDC-C-HD-SM2.5AU	100	1651660000
Crimp contacts, male - silver		
HDC-C-HD-SM0.14-0.37AG	100	1651520000
HDC-C-HD-SM0.5AG	100	1651530000
HDC-C-HD-SM0.75-1.00AG	100	1601750000
HDC-C-HD-SM1.5AG	100	1651550000
HDC-C-HD-SM2.5AG	100	1651560000
Tools		
CTX CM 1.6/2.5	1	9018490000
REMOVAL TOOL HD	1	1866730000

Female



Ordering data

Type of connection	Type	Qty.	Order No.
Crimp connection	HDC HDD 108 FC	1	1651220000
Crimp connection	HDC HDD 108 FC 109-216	1	1651300000

We recommend the use of guide pins and sockets.

Accessories

Type	Qty.	Order No.
Crimp contacts, female - gold		
HDC-C-HD-BM0.14-0.37AU	100	1651670000
HDC-C-HD-BM0.5AU	100	1651680000
HDC-C-HD-BM0.75-1.00AU	100	1651690000
HDC-C-HD-BM1.5AU	100	1651700000
HDC-C-HD-BM2.5AU	100	1651710000
Crimp contacts, female - silver		
HDC-C-HD-BM0.14-0.37AG	100	1651570000
HDC-C-HD-BM0.5AG	100	1651580000
HDC-C-HD-BM0.75-1.00AG	100	1601760000
HDC-C-HD-BM1.5AG	100	1651600000
HDC-C-HD-BM2.5AG	100	1651610000
Tools		
CTX CM 1.6/2.5	1	9018490000
REMOVAL TOOL HD	1	1866730000

Housing selection RockStar® IP65
Size 12



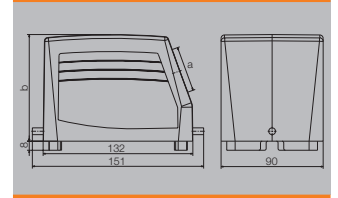
For additional housings, refer to chapter E for IP65

Hood

Plug housing, cable entry sideways



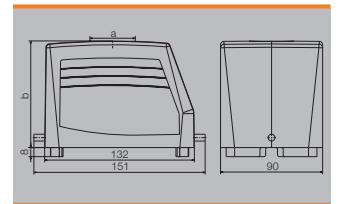
a	Version	Cover	b (mm)	Type	Order No.
M 32	w. threading		94	HDC 48B TSLU 1M32G	1788320000
M 40	w. threading		94	HDC 48B TSLU 1M40G	1788310000
M 50	w. threading		94	HDC 48B TSLU 1M50G	1788300000



Plug housing, cable entry at top



a	Version	Cover	b (mm)	Type	Order No.
M 32	w. threading		94	HDC 48B TOLU 1M32G	1788350000
M 50	w. threading		94	HDC 48B TOLU 1M50G	1788330000

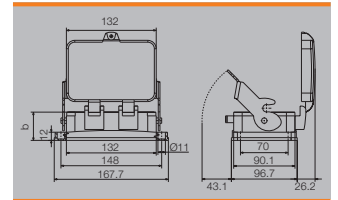


Base

Bulkhead housing



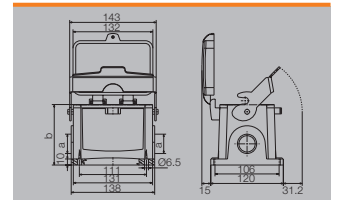
Version	Cover	b (mm)	Type	Order No.
	with cover	62	HDC 48B ADLU	1222900000



Base housing

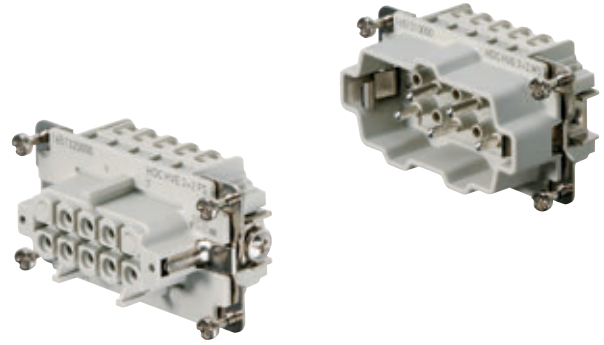


a	Version	Cover	b (mm)	Type	Order No.
M 32	w. threading		100	HDC 48B SLU 2M32G	1788370000
M 32	w. threading	with cover	120	HDC 48B SDLU 2M32G	1788390000
M 40	w. threading		100	HDC 48B SLU 2M40G	1788360000



HVE series – exciting voltage

Weidmüller high-voltage inserts are equipped with lagging contacts. This results in more security during real operations.



Technical data







Standards/approvals	
Standards	DIN EN 61984 DIN EN 60664-1
Approvals	UL/CSA**
Inserts	
No. of poles	3 + 2, 6 + 2, 10 + 2
Rated voltage	830 V
Rated voltage to UL/CSA	600 V
Rated current	20 A
Rated impulse withstand voltage	8 kV
Pollution severity	3 (1000 V / 8 kV / 2)
Insulation resistance	≥ 1010 Ω
Material	Glass-fibre reinforced PC (in UL list and approved for railway applications)
Temperature range	-40 °C to +125 °C
Flammability to UL 94	V-0
Mechanical service life	
- Plugging cycles Ag - Surface	≥ 500
Contact resistance	≤ 2 mΩ
Contacts/Material	
Contacts	Copper alloy
Surface	Passivated silver
Clamping range/Stripping length	
- Screw connection	0.5 - 2.5 mm ² (AWG 20 - 14) / 8 mm
- Tension clamp connection	0.25 - 2.5 mm ² (AWG 24 - 14) / 8 mm
Clamping torque	
- Screw connection	0.5 - 0.55 Nm
SD blades	
- Screw connection	0.6 x 3.5 oder PZ0
- Tension clamp connection	0.5 x 3 oder 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 oder PZ1

Note:

When used properly and as designated, the listed connectors may not be connected or disconnected if there is a live voltage or load! Rated voltage determined on the basis of DIN EN 61984 section 6.19.2.2.
500 V for signal contact.

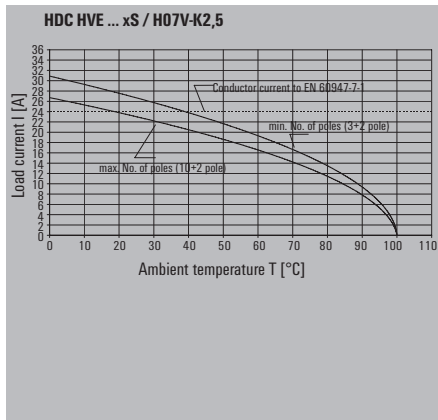
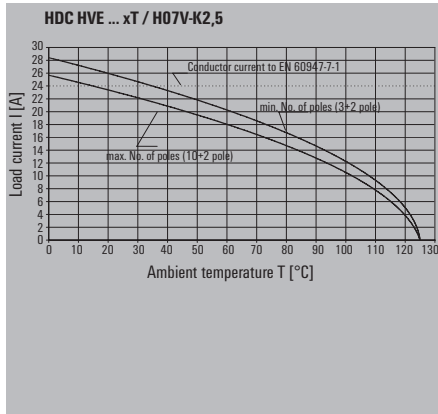
** For screw connection

Overview

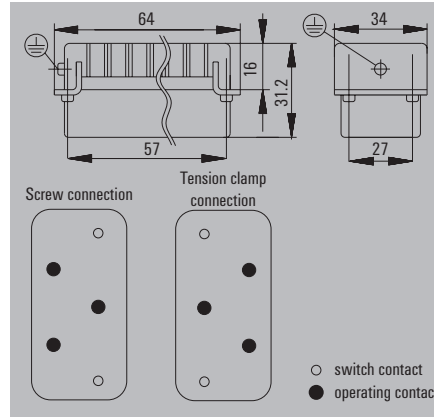
		Size	Rated voltage	Rated current	No. of poles	Tension clamp connection	TOP connection	Screw conn. with wire guard spring	Crimp connection	PUSH IN connection	Page
		4	830 V	20 A	3 + 2 + ⊕	•		•			B.82
		6	830 V	20 A	6 + 2 + ⊕	•		•			B.84
		8	830 V	20 A	10 + 2 + ⊕	•		•			B.86

830 V, 20 A, size 4

3 + 2 + ⊕



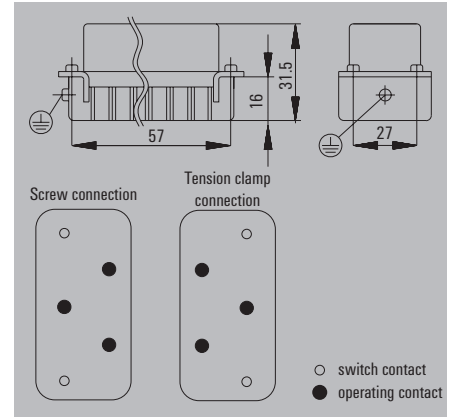
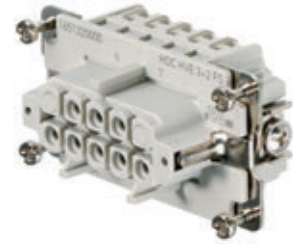
Male



Ordering data

Type of connection	Type	Qty.	Order No.
Screw connection	HDC HVE 3+2 MS	1	1651310000
Tension clamp conn.	HDC HVE 3+2 MT CtH	1	1967230000

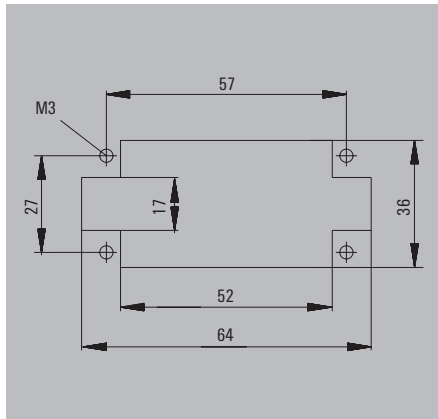
Female



Ordering data

Type of connection	Type	Qty.	Order No.
Screw connection	HDC HVE 3+2 FS	1	1651320000
Tension clamp conn.	HDC HVE 3+2 FT CtH	1	1967220000

Installation cut-out



Housing selection RockStar® IP65
Size 4

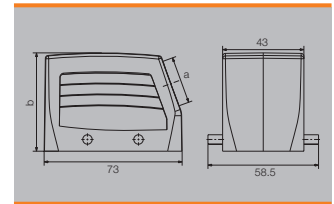


For additional housings, refer to
Chapter E for IP65 / Chapter F for IP68

Plug housing, cable entry sideways



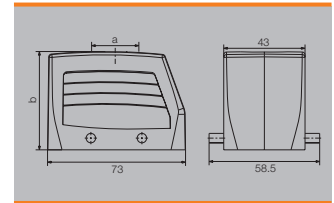
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		52	HDC 10B TSBU 1M20G	1787560000
M 25	w. threading		52	HDC 10B TSBU 1M25G	1787550000
M 25	w. threading		72	HDC 24D TSBU 1M25G	1787240000
M 32	w. threading		72	HDC 24D TSBU 1M32G	1787230000



Plug housing, cable entry at top



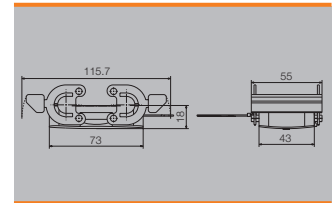
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		52	HDC 10B TOBU 1M20G	1787600000
M 25	w. threading		52	HDC 10B TOBU 1M25G	1787590000
M 25	w. threading		72	HDC 24D TOBU 1M25G	1787300000
M 32	w. threading		72	HDC 24D TOBU 1M32G	1787290000



Cover



Version	Type	Order No.
For hoods (upper parts of housings)	HDC 10B DMDQ 2QB	1665240000

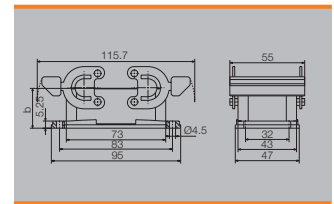


Base

Bulkhead housing



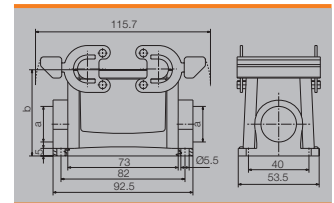
Version	Cover	b (mm)	Type	Order No.
		29.3	HDC 10B ABU	1205000000



Base housing



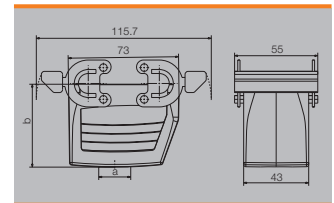
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		57	HDC 10B SBU 2M20G	1787640000
M 25	w. threading		57	HDC 10B SBU 2M25G	1787630000



Coupling housing



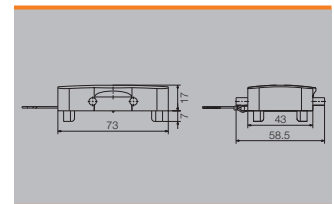
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		55	HDC 10B KBU 1M20G	1787720000



Cover

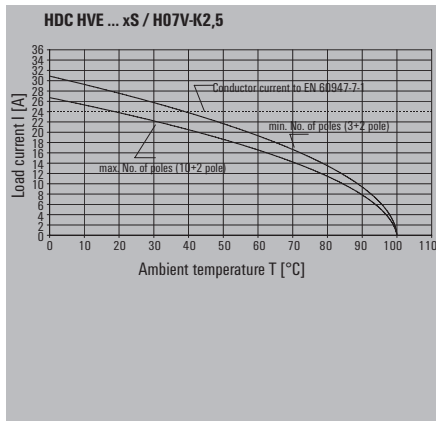
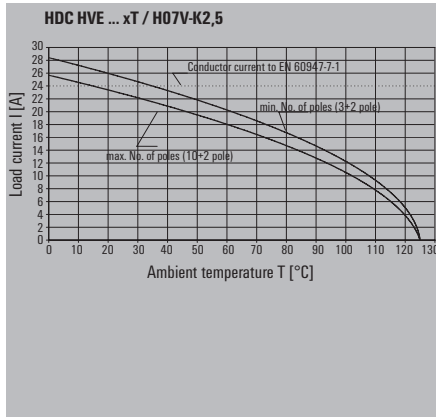


Version	Type	Order No.
For bases (lower parts of housings)	HDC 10B DDDQ 4B0	1665230000

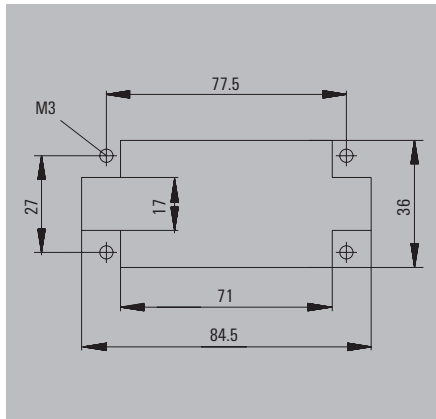


830 V, 20 A, size 6

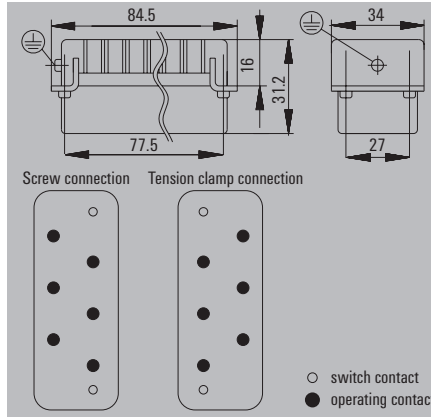
6 + 2 + ⊕



Installation cut-out



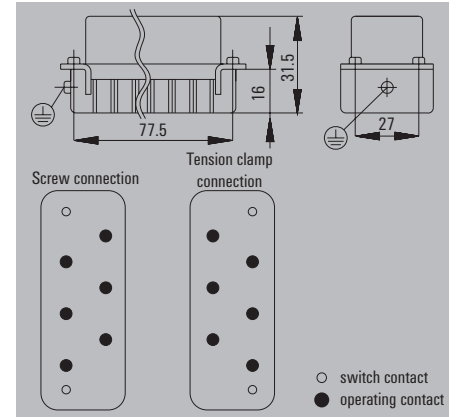
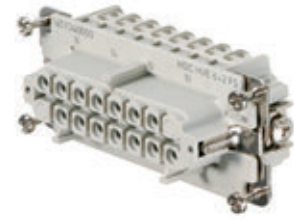
Male



Ordering data

Type of connection	Type	Qty.	Order No.
Screw connection	HDC HVE 6+2 MS	1	1651330000
Tension clamp conn.	HDC HVE 6+2 MT CtH	1	1967250000

Female



Ordering data

Type of connection	Type	Qty.	Order No.
Screw connection	HDC HVE 6+2 FS	1	1651340000
Tension clamp conn.	HDC HVE 6+2 FT CtH	1	1967240000

Housing selection RockStar® IP65
Size 6



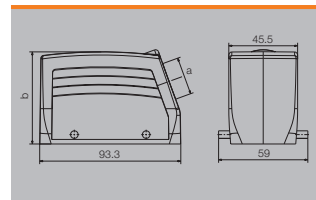
For additional housings, refer to
Chapter E for IP65 / Chapter F for IP68

Hood

Plug housing, cable entry sideways



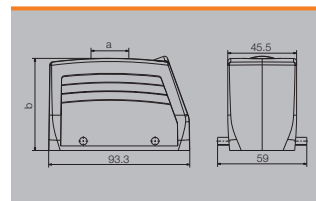
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 16B TSBU 1M25G	1788180000
M 25	w. threading		76	HDC 40D TSBU 1M25G	1787010000
M 32	w. threading		76	HDC 40D TSBU 1M32G	1787000000



Plug housing, cable entry at top



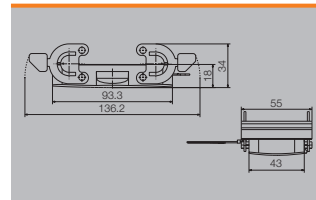
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 16B TOBU 1M25G	1788210000
M 25	w. threading		76	HDC 40D TOBU 1M25G	1787070000
M 32	w. threading		76	HDC 40D TOBU 1M32G	1787060000



Cover



Version	Type	Order No.
For hoods (upper parts of housings)	HDC 16B DMDQ 2QB	1665270000

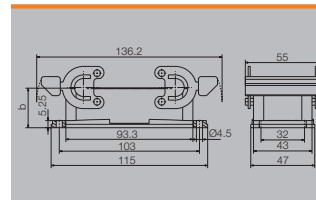


Base

Bulkhead housing



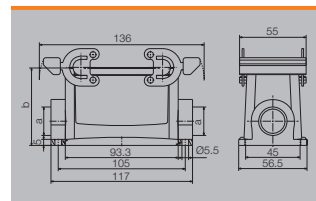
Version	Cover	b (mm)	Type	Order No.
		29	HDC 16B ABU	1208600000



Base housing



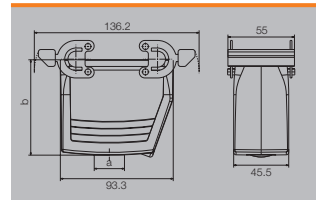
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		64	HDC 16B SBU 2M25G	1788240000
M 25	w. threading		84	HDC 40D SBU 2M25G	1787120000
M 32	w. threading		84	HDC 40D SBU 2M32G	1787110000



Coupling housing



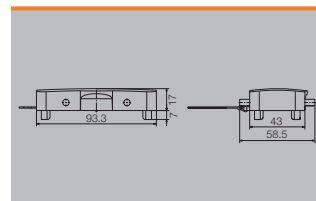
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		79	HDC 40D KBU 1M25G	1787200000
M 32	w. threading		79	HDC 40D KBU 1M32G	1787190000



Cover

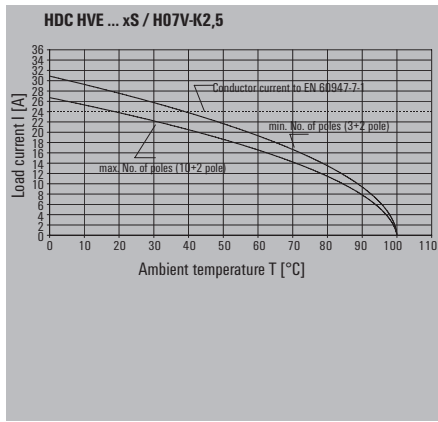
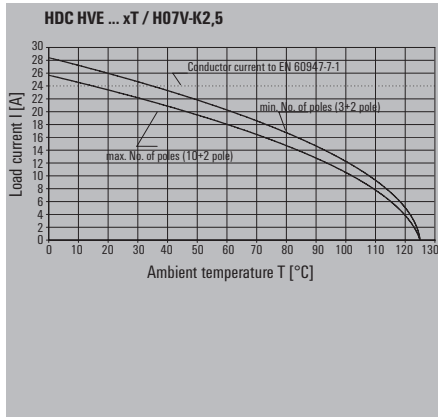


Version	Type	Order No.
For bases (lower parts of housings)	HDC 16B DDDQ 4B0	1665260000

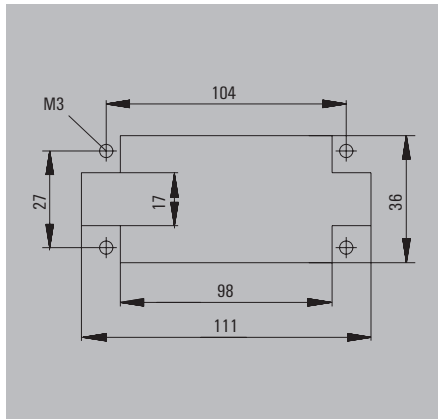


830 V, 20 A, size 8

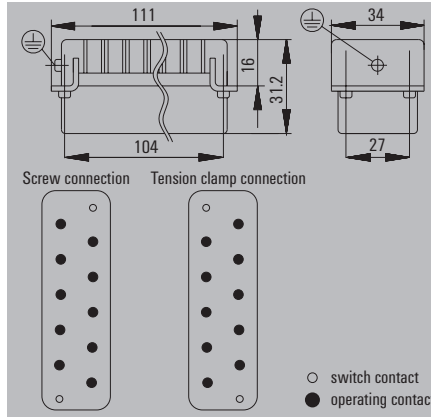
10 + 2 + ⊕



Installation cut-out



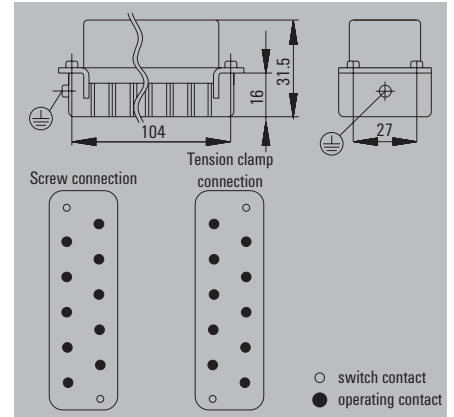
Male



Ordering data

Type of connection	Type	Qty.	Order No.
Screw connection	HDC HVE 10+2 MS	1	1651350000
Tension clamp conn.	HDC HVE 10+2 MT Cth	1	1967210000

Female



Ordering data

Type of connection	Type	Qty.	Order No.
Screw connection	HDC HVE 10+2 FS	1	1651360000
Tension clamp conn.	HDC HVE 10+2 FT Cth	1	1967260000

Housing selection RockStar® IP65
Size 8

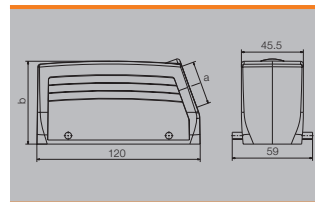
For additional housings, refer to
Chapter E for IP65 / Chapter F for IP68

Hood

Plug housing, cable entry sideways



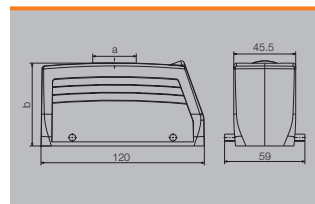
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 24B TSBU 1M25G	1787760000
M 25	w. threading		76	HDC 64D TSBU 1M25G	1786780000
M 32	w. threading		61	HDC 24B TSBU 1M32G	1787750000
M 32	w. threading		76	HDC 64D TSBU 1M32G	1786770000



Plug housing, cable entry at top



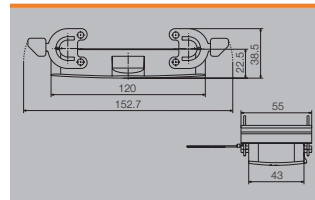
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 24B TOBU 1M25G	1787820000
M 32	w. threading		61	HDC 24B TOBU 1M32G	1787810000
M 32	w. threading		76	HDC 64D TOBU 1M32G	1786830000



Cover



Version	Type	Order No.
For hoods (upper parts of housings)	HDC 24B DMDQ 2QB	1665640000

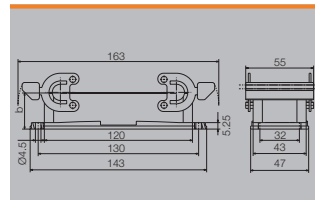


Base

Bulkhead housing



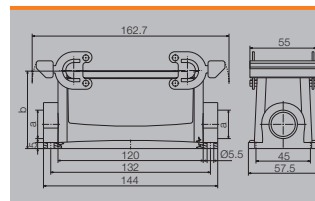
Version	Cover	b (mm)	Type	Order No.
		29.3	HDC 24B ABU	1212400000



Base housing



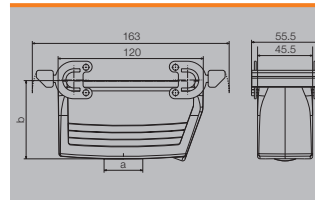
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		64	HDC 24B SBU 2M25G	1787870000
M 25	w. threading		84	HDC 64D SBU 2M25G	1786890000
M 32	w. threading		84	HDC 64D SBU 2M32G	1786880000



Coupling housing



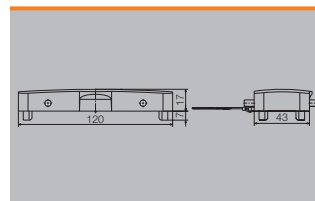
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		65	HDC 24B KBU 1M25G	1787920000
M 32	w. threading		79	HDC 64D KBU 1M32G	1786960000



Cover



Version	Type	Order No.
For bases (lower parts of housings)	HDC 24B DDDQ 4B0	1665630000



HSB series – the heavy-duty connectors

Weidmüller high-voltage inserts are equipped with lagging contacts. This results in more security during real operations.







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	$\geq 10^{10} \Omega$
Material	Glass-fibre reinforced PC (in UL list and approved for railway applications)
Temperature range	-40 °C to +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
Screw connection	
- Clamping range	0.5 - 6 mm ² (AWG 20 - 10)
- Stripping length	11 mm
- flex. with wire end ferrule acc. to DIN 46228 pt. 1	4 mm ²
Clamping torque	
- Screw connection	1.2 - 1.5 Nm
SD blades	0.6 x 3.5 or 0.8 x 4 mm
PE 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 - 10
- Stripping length	10 mm
- Clamping torque	2 - 2.5 Nm
- Blade dimensions	SD 1 x 5.5 mm or PZ2

Note:

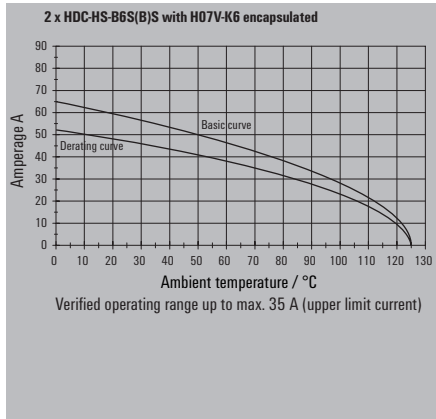
When used properly and as designated, the listed connectors may not be connected or disconnected if there is a live voltage or load! When connecting flexible conductor with a screw connection, you should use ferrules, according to DIN 46228, section 1.

Overview

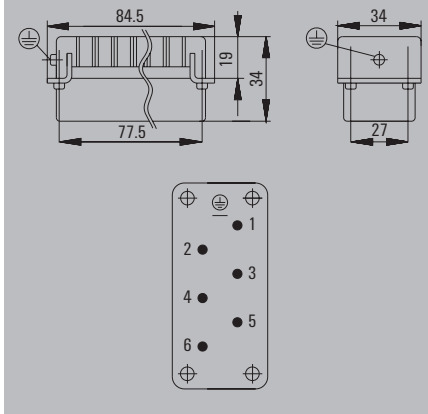
		Size	Rated voltage	Rated current	No. of poles	Tension clamp connection	TOP connection	Screw conn. with wire guard spring	Crimp connection	PUSH IN connection	Page
		6	400 V	35 A	6 + ⊕			•			B.90
		10	400 V	35 A	12 + ⊕			•			B.92

400 V, 35 A, size 6

6 + ⊕



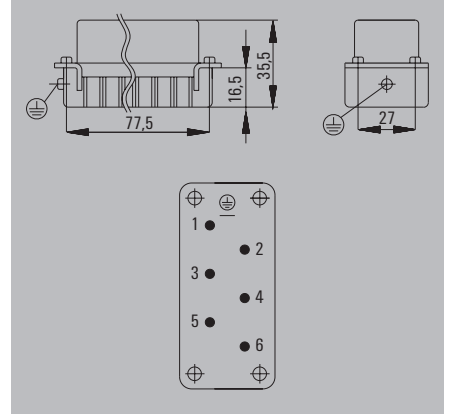
Male



Ordering data

Type of connection	Type	Qty.	Order No.
Screw connection	HDC HSB 6 MS	1	1498700000

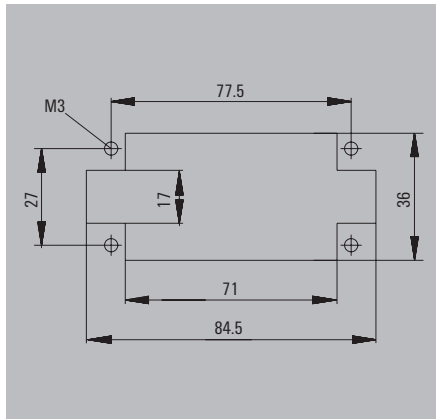
Female



Ordering data

Type of connection	Type	Qty.	Order No.
Screw connection	HDC HSB 6 FS	1	1498900000

Installation cut-out



Housing selection RockStar® IP65
Size 6



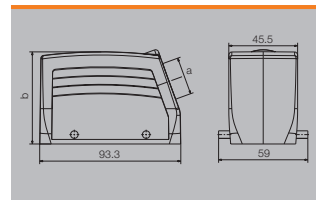
For additional housings, refer to
Chapter E for IP65 / Chapter F for IP68

Hood

Plug housing, cable entry sideways



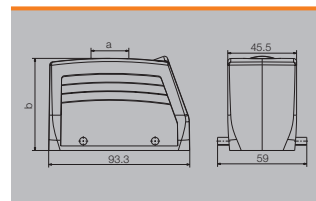
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 16B TSBU 1M25G	1788180000
M 25	w. threading		76	HDC 40D TSBU 1M25G	1787010000
M 32	w. threading		76	HDC 40D TSBU 1M32G	1787000000



Plug housing, cable entry at top



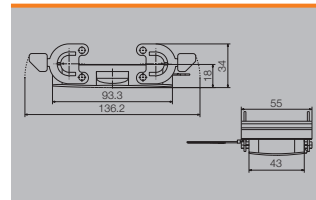
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 16B TOBU 1M25G	1788210000
M 25	w. threading		76	HDC 40D TOBU 1M25G	1787070000
M 32	w. threading		76	HDC 40D TOBU 1M32G	1787060000



Cover



Version	Type	Order No.
For hoods (upper parts of housings)	HDC 16B DMDQ 2QB	1665270000

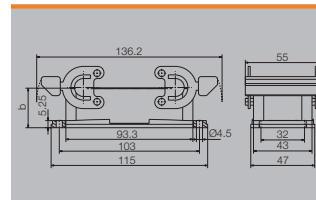


Base

Bulkhead housing



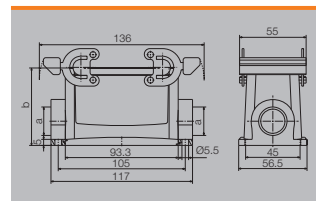
Version	Cover	b (mm)	Type	Order No.
		29	HDC 16B ABU	1208600000



Base housing



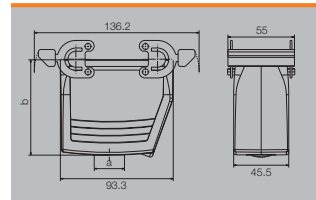
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		64	HDC 16B SBU 2M25G	1788240000
M 25	w. threading		84	HDC 40D SBU 2M25G	1787120000
M 32	w. threading		84	HDC 40D SBU 2M32G	1787110000



Coupling housing



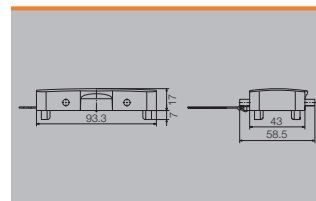
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		79	HDC 40D KBU 1M25G	1787200000
M 32	w. threading		79	HDC 40D KBU 1M32G	1787190000



Cover

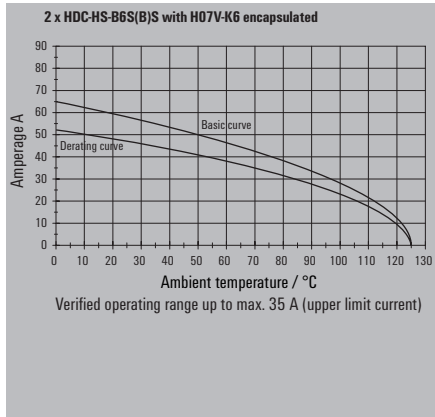


Version	Type	Order No.
For bases (lower parts of housings)	HDC 16B DDDQ 4B0	1665260000

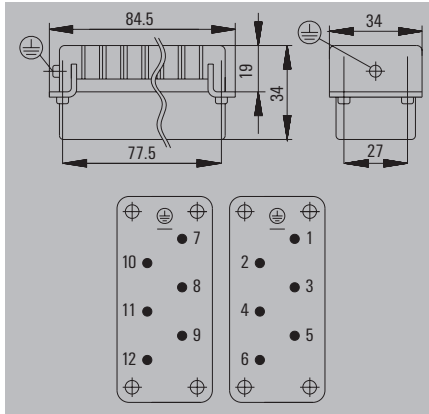


400 V, 35 A, size 10

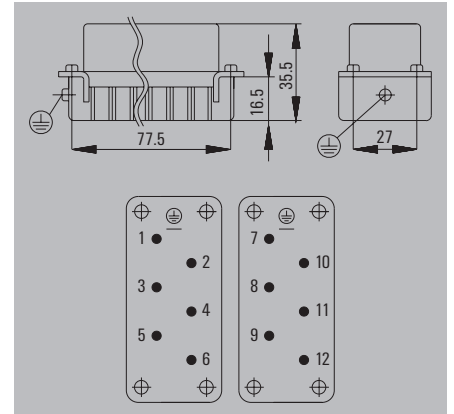
12 + ⊕



Male



Female



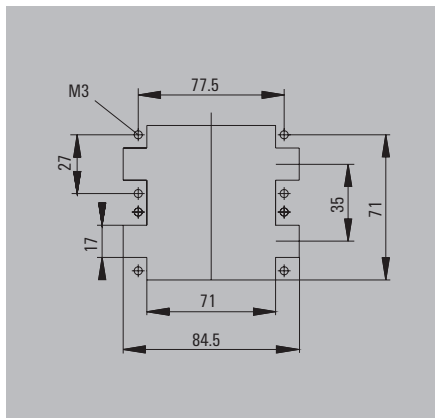
Ordering data

Type of connection	Type	Qty.	Order No.
Screw connection	HDC HSB 6 MS	1	1498700000
Screw connection	HDC HSB 6 MS 7 - 12	1	1498800000

Ordering data

Type of connection	Type	Qty.	Order No.
Screw connection	HDC HSB 6 FS	1	1498900000
Screw connection	HDC HSB 6 FS 7 - 12	1	1499000000

Installation cut-out



Housing selection RockStar® IP65
Size 10



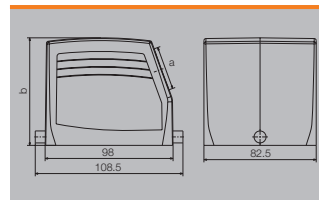
For additional housings, refer to chapter E for IP65

Hood

Plug housing, cable entry sideways



a	Version	Cover	b (mm)	Type	Order No.
M 32	w. threading		79	HDC 32B TSLU 1M32G	1788420000

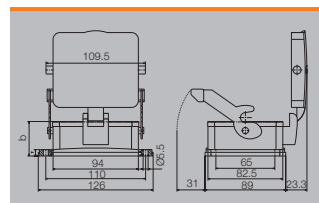


Base

Bulkhead housing



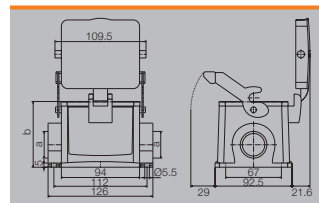
Version	Cover	b (mm)	Type	Order No.
		38	HDC 32B ALU	1219500000
	with cover	55	HDC 32B ADLU	1219800000



Base housing



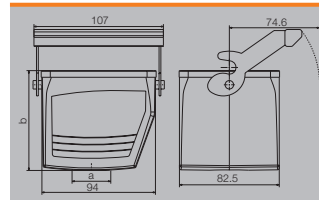
a	Version	Cover	b (mm)	Type	Order No.
M 32	w. threading		79	HDC 32B SLU 2M32G	1788470000
M 32	w. threading	with cover	96	HDC 32B SDLU 2M32G	1788490000



Coupling housing

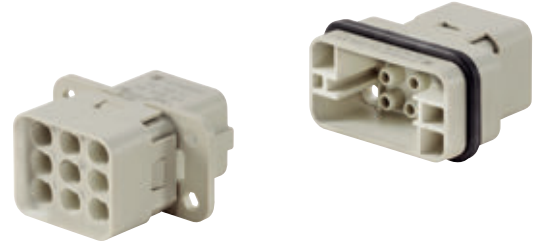


a	Version	Cover	b (mm)	Type	Order No.
M 32	w. threading		83	HDC 32B KLU 1M32G	1788500000



HQ series – the powerful little connectors

A small size but quite big. The electrical values speak for themselves. The HQs use the proven HE and HD crimp contacts as well as the high-performance HX contacts.









Technical data

	HQ 5	HQ 7	HQ 12	HQ 8	HQ 4/2	HQ 17
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	DIN EN 61984 DIN EN 60664-1	DIN EN 61984 DIN EN 60664-1
Approvals	UL/CSA	UL/CSA	UL/CSA	UL/CSA/ISO 23570	UL/CSA/ISO 23570	UL/CSA
Inserts						
No. of poles	5 + PE	7 + PE	12 + PE	8 + PE	4 Leistung, 2 Signale + PE	17 + PE
Connection system	Crimp, HE-contact	Crimp, HD-contact	Crimp, HD-contact	Crimp, HE-contact	Crimp, HX-/HD-contact	Crimp, HD-contact
Rated voltage	250 V	400 V	400 V	500 V	690 V, 250 V	250 V
Rated voltage to UL/CSA	600 V	600 V	600 V	600 V	600 V	600 V
Rated current	16 A	10 A	10 A	16 A	40/10 A	10 A
Rated impulse withstand voltage	4 kV	6 kV	6 kV	6 kV	6 kV/4 kV	4 kV
Pollution severity	3	3	3	3	3	2
Insulation resistance	≥ 10 ¹⁸ Ω	≥ 10 ¹⁸ Ω	≥ 10 ¹⁸ Ω	≥ 10 ¹⁸ Ω	≥ 10 ¹⁸ Ω	≥ 10 ¹⁸ Ω
Material	PC glass-fibre reinforced	PC glass-fibre reinforced	PA glass-fibre reinforced	PC glass-fibre reinforced	PC glass-fibre reinforced	PC glasfaserverstärkt
Temperature range	-40° to +125° C	-40° to +125° C	-40° to +125° C	-40° to +125° C	-40° to +125° C	-40° to +125° C
Flammability to UL 94	V-0	V-0	V-0	V-0	V-0	V-0
Mechanical service life						
- Plugging cycles Ag - Surface	≥ 500	≥ 500	≥ 500	≥ 500	≥ 500	≥ 500
- Plugging cycles Au - Surface	≥ 500	≥ 500	≥ 500	≥ 500	≥ 500	≥ 500
Volume (continuity) resistance of crimp connection	≤ 2 mΩ	≤ 4 mΩ	≤ 4 mΩ	≤ 2 mΩ	≤ 1 mΩ/≤ 4 mΩ	≤ 4 mΩ
Contacts/Material						
Sockets and plug-in contact	Copper alloy	Copper alloy	Copper alloy	Copper alloy	Copper alloy	Copper alloy
Surface	Passivated silver	Passivated silver/gold	Passivated silver/gold	Passivated silver	Passivated silver/gold	Passivated silver/gold
Crimp connection						
- Performance power range	0.5 - 4 mm ² (AWG 20 - 12)			0.5 - 4 mm ² (AWG 20...12)	1.5 - 6 mm ² (AWG 16...10)	
- Signal range		0.14 - 2.5 mm ² (AWG 26 - 14)	0.14 - 2.5 mm ² (AWG 26 - 14)		0.14 - 2.5 mm ² (AWG 26 - 14)	0.14 - 2.5 mm ² (AWG 26 - 14)
- Stripping length	7.5 mm	8.0 mm	8.0 mm	7.5 mm	9 mm/8 mm	8.0 mm
PE connection						
- Clamping range	0.5 - 2.5 mm ²	0.14 - 2.5 mm ²	0.14 - 2.5 mm ²	0.5 - 4 mm ²	1.5 - 6 mm ²	0.14 - 2.5 mm ²
- solid core/stranded	0.5 - 2.5 mm ² / 0.5 - 2.5 mm ²	0.14 - 2.5 mm ²	0.14 - 2.5 mm ²	0.5 - 4 mm ²		
- flexible/flexible with ferrule	0.5 - 2.5 mm ² / 0.5 - 2.5 mm ²	0.14 - 2.5 mm ²	0.14 - 2.5 mm ²	0.5 - 4 mm ²		
- AWG conductor	AWG 20 - 14	AWG 26 - 14	AWG 26 - 14	AWG 20 - 12	AWG 16 - 10	AWG 26 - 14
- Stripping length	10 mm	5 mm	5 mm	7.5 mm	9 mm	8 mm
- Clamping torque	0.5 - 0.55 Nm	0.5 - 0.55 Nm	0.5...0.55 Nm			
- Blade dimensions	SD 0.8 x 4 mm	SD 0.8 x 4 mm	SD 0.8 x 4 mm			
Accessories and tools						
Crimping tools used	9205430000	9205430000	9205430000	9205430000	9205430000	9205430000 C
	CTIN CM 1.6/2.5	CTIN CM 1.6/2.5	CTIN CM 1.6/2.5	CTIN CM 1.6/2.5	CTIN CM 1.6/2.5	TIN CM 1.6/2.5
	9018490000	9018490000	9018490000	9018490000	9205440000	9018490000
	CTX CM 1.6/2.5	CTX CM 1.6/2.5	CTX CM 1.6/2.5	CTX CM 1.6/2.5	CTIN CM 3.6	CTX CM 1.6/2.5
				9018490000 CTX CM 1.6/2.5		
Screwdriver				Version Crosshead, shape H	Version Crosshead, shape H	Version Crosshead, shape H
				Sheet metal screw: ISO 7049-ST 2.9 x 9.5-F-H	Sheet metal screw: ISO 7049-ST 2.9 x 9.5-F-H	Sheet metal screw: ISO 7049-ST 2.9 x 9.5-F-H
Removal tool for crimps	1866750000 Removal Tool HE	1866730000 Removal Tool HD	1866730000 Removal Tool HD	1866750000 Removal Tool HE	1002990000 Removal Tool HX	1866730000 Removal Tool HD
					1866730000 Removal Tool HD	

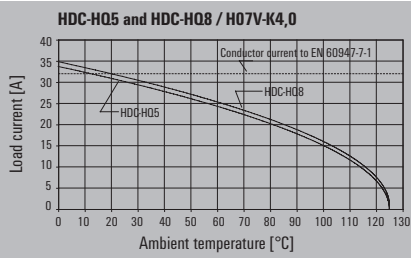
Note:
When used properly and as designated, the listed connectors may not be connected or disconnected if there is a live voltage or load!

Overview

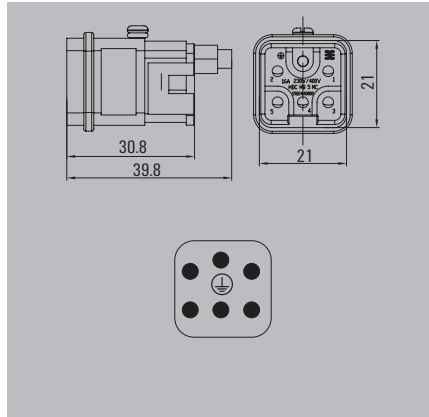
	Size	Rated voltage	Rated current	No. of poles	Tension clamp connection	TOP connection	Screw conn. with wire guard spring	Crimp connection	PUSH IN connection	Page
	1	250 V	16 A	5 + ⊕				•		B.96
	1	400 V	10 A	7 + ⊕				•		B.98
	1	400 V	10 A	12 + ⊕				•		B.100
	HQ	500 V	16 A	8 + ⊕				•		B.102
	HQ	250 V	10 A	17 + ⊕				•		B.104
	HQ	690/250 V	40/10 A	4 + 2 + ⊕				•		B.106

250 V, 16 A, size 1

5 + ⊕



Male



Ordering data

Type of connection	Type	Qty.	Order No.
Crimp connection	HDC HQ 5 MC	1	1912440000

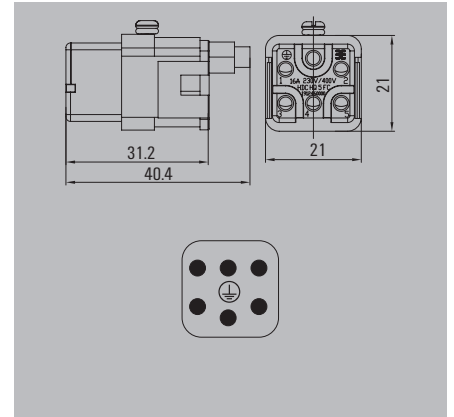
Accessories

Type	Qty.	Order No.
Crimp contacts, male - gold		
HDC-C-HE-SM0.5AU	100	1651420000
HDC-C-HE-SM0.75-1.00AU	100	1651430000
HDC-C-HE-SM1.5AU	100	1651440000
HDC-C-HE-SM2.5AU	100	1651450000
HDC-C-HE-SM4.0AU	100	1651460000
Crimp contacts, male - silver		
HDC-C-HE-SM0.5AG	100	1200500000
HDC-C-HE-SM0.75-1.00AG	100	1200600000
HDC-C-HE-SM1.5AG	100	1200700000
HDC-C-HE-SM2.5AG	100	1200800000
HDC-C-HE-SM4.0AG	100	1200900000
Coding pins		
HDC HE CP	100	1003240000
Tools		
CTX CM 1.6/2.5	1	9018490000
CTIN CM 1.6/2.5	1	9205430000
Removal Tool HE	1	1866750000

Installation cut-out



Female



Ordering data

Type of connection	Type	Qty.	Order No.
Crimp connection	HDC HQ 5 FC	1	1912460000

Accessories

Type	Qty.	Order No.
Crimp contacts, female - gold		
HDC-C-HE-BM0.5AU	100	1651470000
HDC-C-HE-BM0.75-1.00AU	100	1651480000
HDC-C-HE-BM1.5AU	100	1651490000
HDC-C-HE-BM2.5AU	100	1651500000
HDC-C-HE-BM4.0AU	100	1651510000
Crimp contacts, female - silver		
HDC-C-HE-BM0.5AG	100	1201100000
HDC-C-HE-BM0.75-1.00AG	100	1201200000
HDC-C-HE-BM1.5AG	100	1201300000
HDC-C-HE-BM2.5AG	100	1201400000
HDC-C-HE-BM4.0AG	100	1201500000
Tools		
CTX CM 1.6/2.5	1	9018490000
CTIN CM 1.6/2.5	1	9205430000
Removal Tool HE	1	1866750000

Housing selection RockStar® IP65
Size 1



For additional housings, refer to
Chapter E for IP65 / Chapter F for IP68

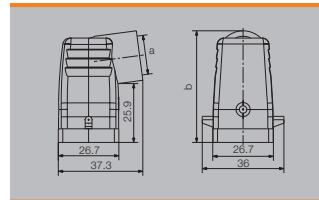
Hood

Plug housing, cable entry sideways



Material: diecast aluminium

a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		49.2	HDC 04A TWLU 1M20G	1788810000

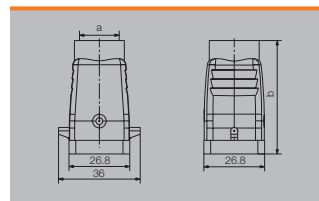


Plug housing, cable entry at top



Material: diecast aluminium

a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		50	HDC 04A TOLU 1M20G	1788820000



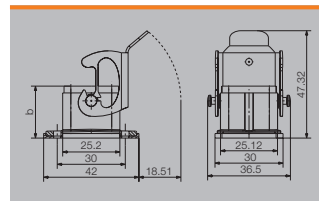
Base

Bulkhead housing



Material: diecast aluminium

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

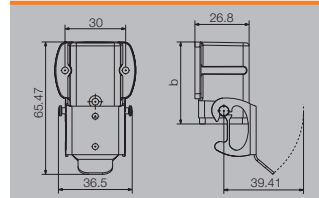


Base housing



Material: diecast aluminium

a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		41.5	HDC 04A SLU 1M20G	1788830000

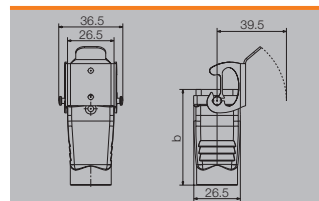


Coupling housing



Material: diecast aluminium

a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		53.5	HDC 04A KOLU 1M20G	1788840000

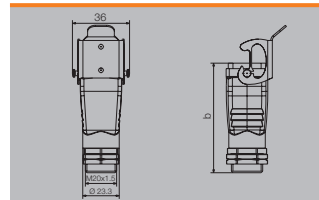


Screw mounting housing



Material: diecast aluminium

a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		54	HDC 04A ELU 1M20G	1900320000

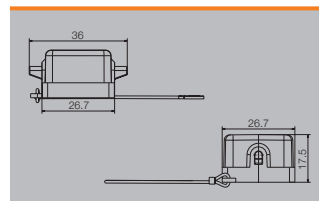


Cover



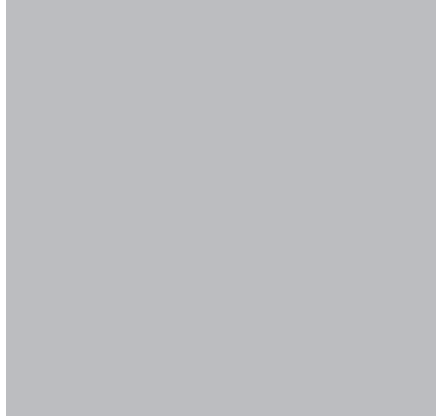
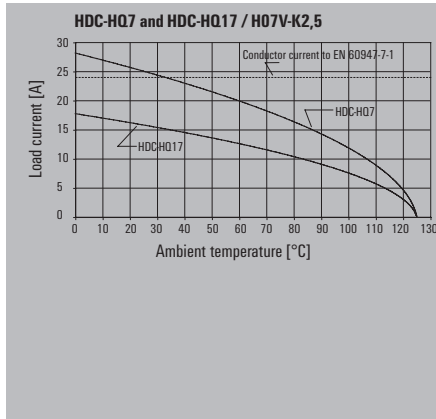
Material: diecast aluminium

Version	Type	Order No.
for female insert	HDC 04A DMDL 2B0	1665750000
for male insert	HDC 04A DDDL 2B0	1665740000



400 V, 10 A, size 1

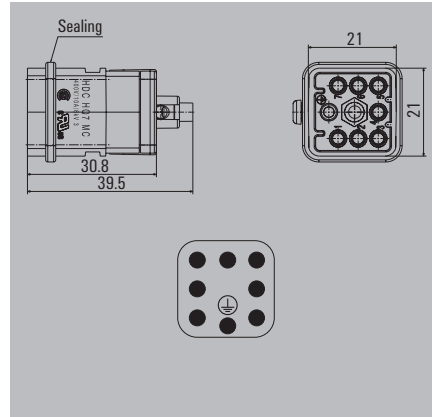
7 + ⊕



Installation cut-out



Male



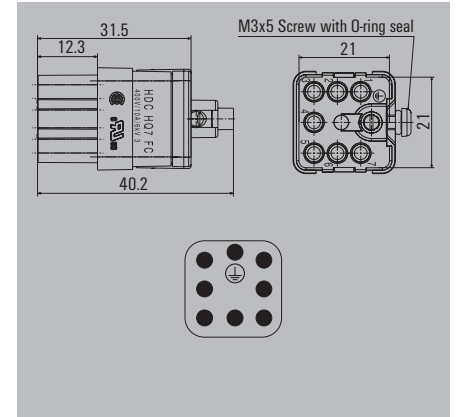
Ordering data

Type of connection	Type	Qty.	Order No.
Crimp connection	HDC HQ 7 MC	1	1003190000

Accessories

Type	Qty.	Order No.
Crimp contacts, male - gold		
HDC-C-HD-SM0.14-0.37AU	100	1651620000
HDC-C-HD-SM0.5AU	100	1651630000
HDC-C-HD-SM0.75-1.00AU	100	1651640000
HDC-C-HD-SM1.5AU	100	1651650000
HDC-C-HD-SM2.5AU	100	1651660000
Crimp contacts, male - silver		
HDC-C-HD-SM0.14-0.37AG	100	1651520000
HDC-C-HD-SM0.5AG	100	1651530000
HDC-C-HD-SM0.75-1.00AG	100	1601750000
HDC-C-HD-SM1.5AG	100	1651550000
HDC-C-HD-SM2.5AG	100	1651560000
Coding pins		
HDC HQ 7 CPM	50	1003230000
HDC HQ 7 CPF	50	1003220000
Tools		
CTX CM 1.6/2.5	1	9018490000
CTIN CM 1.6/2.5	1	9205430000
REMOVAL TOOL HD	1	1866730000

Female



Ordering data

Type of connection	Type	Qty.	Order No.
Crimp connection	HDC HQ 7 FC	1	1003180000

Accessories

Type	Qty.	Order No.
Crimp contacts, female - gold		
HDC-C-HD-BM0.14-0.37AU	100	1651670000
HDC-C-HD-BM0.5AU	100	1651680000
HDC-C-HD-BM0.75-1.00AU	100	1651690000
HDC-C-HD-BM1.5AU	100	1651700000
HDC-C-HD-BM2.5AU	100	1651710000
Crimp contacts, female - silver		
HDC-C-HD-BM0.14-0.37AG	100	1651570000
HDC-C-HD-BM0.5AG	100	1651580000
HDC-C-HD-BM0.75-1.00AG	100	1601760000
HDC-C-HD-BM1.5AG	100	1651600000
HDC-C-HD-BM2.5AG	100	1651610000
Coding pins		
HDC HQ 7 CPM	50	1003230000
HDC HQ 7 CPF	50	1003220000
Tools		
CTX CM 1.6/2.5	1	9018490000
CTIN CM 1.6/2.5	1	9205430000
REMOVAL TOOL HD	1	1866730000

Housing selection RockStar® IP65
Size 1



For additional housings, refer to
Chapter E for IP65 / Chapter F for IP68

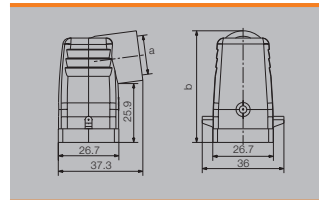
Hood

Plug housing, cable entry sideways



Material: diecast aluminium

a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		49.2	HDC 04A TWLU 1M20G	1788810000

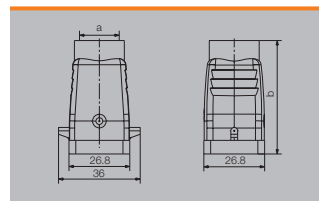


Plug housing, cable entry at top



Material: diecast aluminium

a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		50	HDC 04A TOLU 1M20G	1788820000



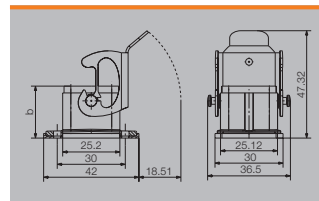
Base

Bulkhead housing



Material: diecast aluminium

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

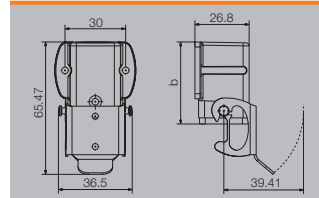


Base housing



Material: diecast aluminium

a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		41.5	HDC 04A SLU 1M20G	1788830000

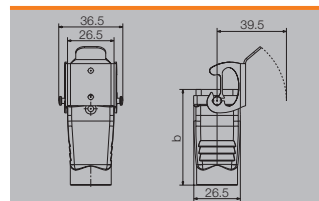


Coupling housing



Material: diecast aluminium

a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		53.5	HDC 04A KOLU 1M20G	1788840000

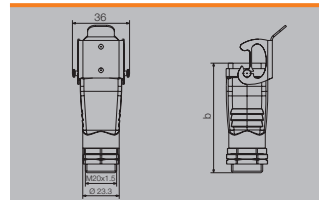


Screw mounting housing



Material: diecast aluminium

a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		54	HDC 04A ELU 1M20G	1900320000

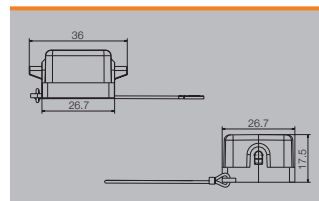


Cover



Material: diecast aluminium

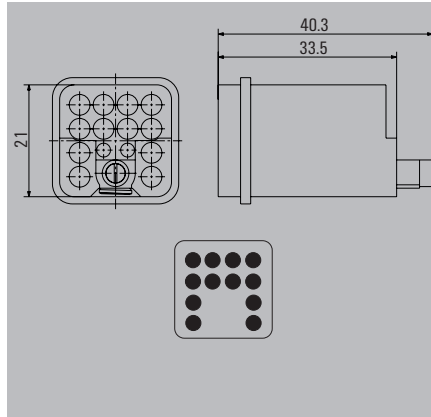
Version	Type	Order No.
for female insert	HDC 04A DMDL 2B0	1665750000
for male insert	HDC 04A DDDL 2B0	1665740000



400 V, 10 A, size 1

12 + ⊕

Male



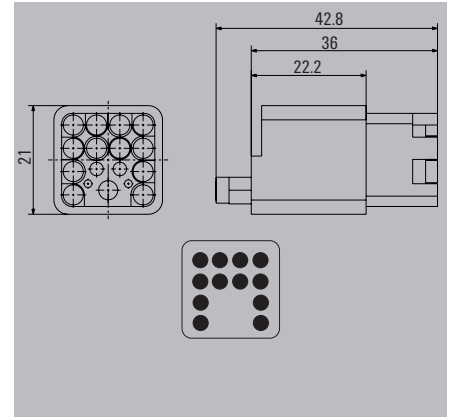
Ordering data

Type of connection	Type	Qty.	Order No.
Crimp connection	HDC HQ 12 MC	10	1993810000

Accessories

Type	Qty.	Order No.
Crimp contacts, male - gold		
HDC-C-HD-SM0.14-0.37AU	100	1651620000
HDC-C-HD-SM0.5AU	100	1651630000
HDC-C-HD-SM0.75-1.00AU	100	1651640000
HDC-C-HD-SM1.5AU	100	1651650000
HDC-C-HD-SM2.5AU	100	1651660000
Crimp contacts, male - silver		
HDC-C-HD-SM0.14-0.37AG	100	1651520000
HDC-C-HD-SM0.5AG	100	1651530000
HDC-C-HD-SM0.75-1.00AG	100	1601750000
HDC-C-HD-SM1.5AG	100	1651550000
HDC-C-HD-SM2.5AG	100	1651560000
Tools		
CTX CM 1.6/2.5	1	9018490000
CTIN CM 1.6/2.5	1	9205430000
REMOVAL TOOL HD	1	1866730000

Female



Ordering data

Type of connection	Type	Qty.	Order No.
Crimp connection	HDC HQ 12 FC	10	1993820000

Accessories

Type	Qty.	Order No.
Crimp contacts, female - gold		
HDC-C-HD-BM0.14-0.37AU	100	1651670000
HDC-C-HD-BM0.5AU	100	1651680000
HDC-C-HD-BM0.75-1.00AU	100	1651690000
HDC-C-HD-BM1.5AU	100	1651700000
HDC-C-HD-BM2.5AU	100	1651710000
Crimp contacts, female - silver		
HDC-C-HD-BM0.14-0.37AG	100	1651570000
HDC-C-HD-BM0.5AG	100	1651580000
HDC-C-HD-BM0.75-1.00AG	100	1601760000
HDC-C-HD-BM1.5AG	100	1651600000
HDC-C-HD-BM2.5AG	100	1651610000
Tools		
CTX CM 1.6/2.5	1	9018490000
CTIN CM 1.6/2.5	1	9205430000
REMOVAL TOOL HD	1	1866730000

Installation cut-out

Housing selection RockStar® IP68
Size 1



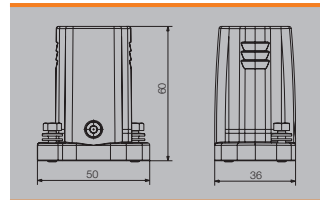
For additional housings, refer to
Chapter F for IP68

Hood

Plug housing, cable entry at top



a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading			HDC IP68 04A TOS 1M20	1082390000
M 25	w. threading			HDC IP68 04A TOS 1M25G	1513390000
PG 13.5	w. threading			HDC IP68 04A TOS 1PG13	1082410000

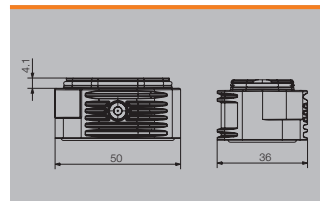


Base

Bulkhead housing



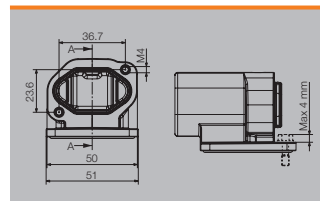
a	Version	Cover	b (mm)	Type	Order No.
				HDC IP68 04A AS	1081470000



Angled bulkhead housing



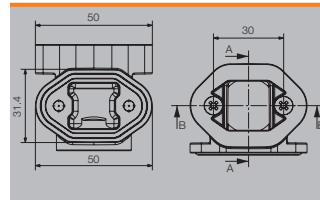
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading			HDC IP68 04A AWS 1M20	1081480000
				HDC IP68 04A AWS	1081490000
M 25	w. threading			HDC IP68 04A AWS 1M25	2430170000



Adapter



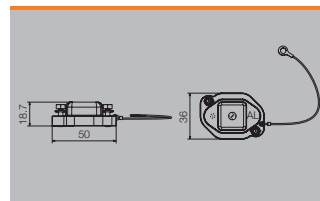
a	Version	Cover	b (mm)	Type	Order No.
				HDC IP68 04A ADS	1083130000
PG 13.5	w. threading			HDC IP68 04A ADS 1PG13	1083120000



Cover

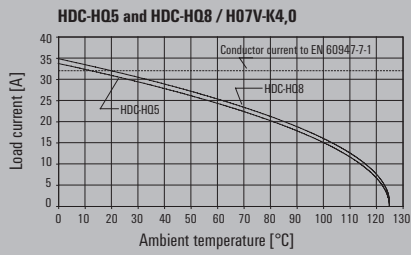


Version	Type	Order No.
	HDC IP68 04A COVER	1083110000

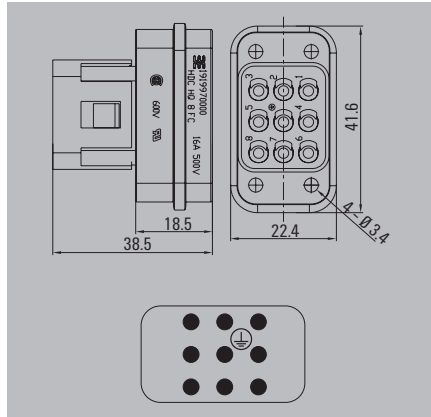


500 V, 16 A, size HQ

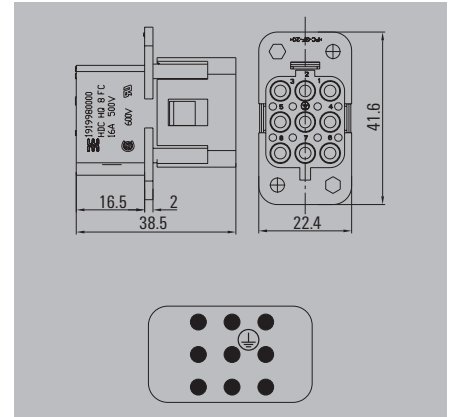
8 + ⊕



Male



Female



Ordering data

Type of connection	Type	Qty.	Order No.
Crimp connection	HDC HQ 8 MC	1	1919970000

Ordering data

Type of connection	Type	Qty.	Order No.
Crimp connection	HDC HQ 8 FC	1	1919980000

Installation cut-out

Accessories

Type	Qty.	Order No.
Crimp contacts, male - gold		
HDC-C-HE-SM0.5AU	100	1651420000
HDC-C-HE-SM0.75-1.00AU	100	1651430000
HDC-C-HE-SM1.5AU	100	1651440000
HDC-C-HE-SM2.5AU	100	1651450000
HDC-C-HE-SM4.0AU	100	1651460000
Crimp contacts, male - silver		
HDC-C-HE-SM0.5AG	100	1200500000
HDC-C-HE-SM0.75-1.00AG	100	1200600000
HDC-C-HE-SM1.5AG	100	1200700000
HDC-C-HE-SM2.5AG	100	1200800000
HDC-C-HE-SM4.0AG	100	1200900000
Coding pins		
HDC HE CP	100	1003240000
Tools		
CTX CM 1.6/2.5	1	9018490000
CTIN CM 1.6/2.5	1	9205430000
Removal Tool HE	1	1866750000

Accessories

Type	Qty.	Order No.
Crimp contacts, female - gold		
HDC-C-HE-BM0.5AU	100	1651470000
HDC-C-HE-BM0.75-1.00AU	100	1651480000
HDC-C-HE-BM1.5AU	100	1651490000
HDC-C-HE-BM2.5AU	100	1651500000
HDC-C-HE-BM4.0AU	100	1651510000
Crimp contacts, female - silver		
HDC-C-HE-BM0.5AG	100	1201100000
HDC-C-HE-BM0.75-1.00AG	100	1201200000
HDC-C-HE-BM1.5AG	100	1201300000
HDC-C-HE-BM2.5AG	100	1201400000
HDC-C-HE-BM4.0AG	100	1201500000
Tools		
CTX CM 1.6/2.5	1	9018490000
CTIN CM 1.6/2.5	1	9205430000
Removal Tool HE	1	1866750000

Housing selection RockStar® IP65
Size HQ



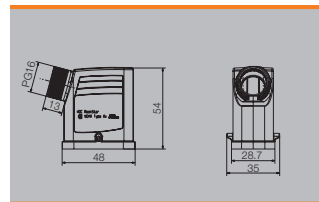
For additional housings, refer to chapter E for IP65

Hood

Plug housing, cable entry sideways



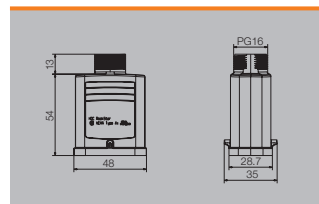
a	Version	Cover	b (mm)	Type	Order No.
PG 16	w. threading		54	HDC HQP TSLU 1PG16	1003090000



Plug housing, cable entry at top



a	Version	Cover	b (mm)	Type	Order No.
PG 16	w. threading		67	HDC HQP TOLU 1PG16	1003070000

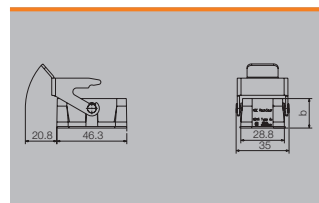


Base

Bulkhead housing



Version	Cover	b (mm)	Type	Order No.
		19.5	HDC HQP ALU	1003040000

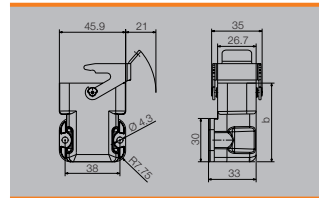


Note with locking bow

Bulkhead housing angled



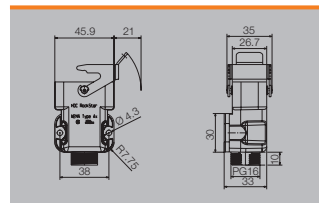
Version	Cover	b (mm)	Type	Order No.
angled		54.5	HDC HQP AWLU	1003060000



Base housing



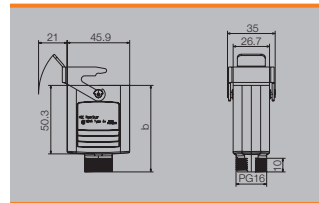
a	Version	Cover	b (mm)	Type	Order No.
PG 16	w. threading		54.5	HDC HQP SLU 1PG16	1003110000



Coupling housing



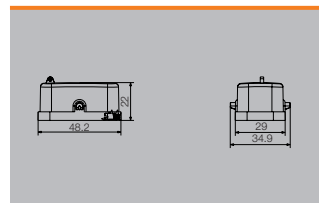
a	Version	Cover	b (mm)	Type	Order No.
PG 16	w. threading		63.5	HDC HQP KOLU 1PG16	1003120000



Cover



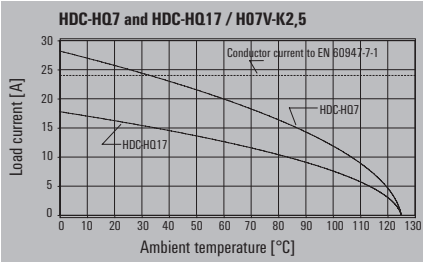
Version	Type	Order No.
for female insert	HDC HQP DMD 2B0	1003130000
for male insert	HDC HQP DDD 2B0	1003140000



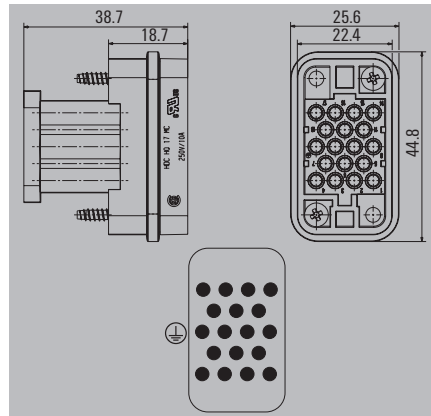
Note for plastic and metal housings, for locking bow

250 V, 10 A, size HQ

17 + ⊕



Male



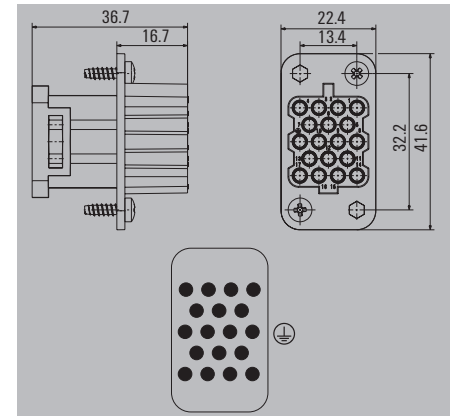
Ordering data

Type of connection	Type	Qty.	Order No.
Crimp connection	HDC HQ 17 MC	1	1003210000

Accessories

Type	Qty.	Order No.
Crimp contacts, male - gold		
HDC-C-HD-SM0.14-0.37AU	100	1651620000
HDC-C-HD-SM0.5AU	100	1651630000
HDC-C-HD-SM0.75-1.00AU	100	1651640000
HDC-C-HD-SM1.5AU	100	1651650000
HDC-C-HD-SM2.5AU	100	1651660000
Crimp contacts, male - silver		
HDC-C-HD-SM0.14-0.37AG	100	1651520000
HDC-C-HD-SM0.5AG	100	1651530000
HDC-C-HD-SM0.75-1.00AG	100	1601750000
HDC-C-HD-SM1.5AG	100	1651550000
HDC-C-HD-SM2.5AG	100	1651560000
Tools		
CTX CM 1.6/2.5	1	9018490000
CTIN CM 1.6/2.5	1	9205430000
REMOVAL TOOL HD	1	1866730000

Female



Ordering data

Type of connection	Type	Qty.	Order No.
Crimp connection	HDC HQ 17 FC	1	1003200000

Accessories

Type	Qty.	Order No.
Crimp contacts, female - gold		
HDC-C-HD-BM0.14-0.37AU	100	1651670000
HDC-C-HD-BM0.5AU	100	1651680000
HDC-C-HD-BM0.75-1.00AU	100	1651690000
HDC-C-HD-BM1.5AU	100	1651700000
HDC-C-HD-BM2.5AU	100	1651710000
Crimp contacts, female - silver		
HDC-C-HD-BM0.14-0.37AG	100	1651570000
HDC-C-HD-BM0.5AG	100	1651580000
HDC-C-HD-BM0.75-1.00AG	100	1601760000
HDC-C-HD-BM1.5AG	100	1651600000
HDC-C-HD-BM2.5AG	100	1651610000
Tools		
CTX CM 1.6/2.5	1	9018490000
CTIN CM 1.6/2.5	1	9205430000
REMOVAL TOOL HD	1	1866730000

Installation cut-out

Housing selection RockStar® IP65
Size HQ



For additional housings, refer to chapter E for IP65

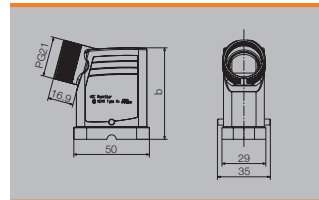
Hood

Plug housing, cable entry sideways



Material: Zinc diecast

a	Version	Cover	b (mm)	Type	Order No.
PG 21	w. threading		60.5	HDC HQM TSLU 1PG21	1003100000

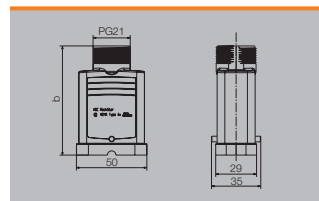


Plug housing, cable entry at top



Material: Zinc diecast

a	Version	Cover	b (mm)	Type	Order No.
PG 21	w. threading		77.5	HDC HQM TOLU 1PG21	1003080000



Base

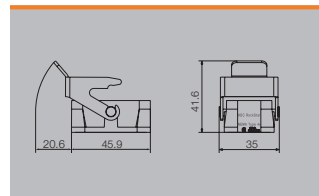
Bulkhead housing



Material: Zinc diecast

Version	Cover	b (mm)	Type	Order No.
		20.5	HDC HQM ALU	1003050000

Note with locking bow



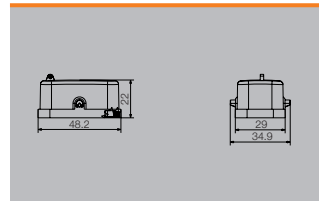
Cover



Material: Plastic

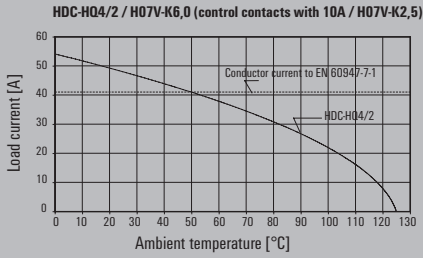
Version	Type	Order No.
for female insert	HDC HQP DMD 2B0	1003130000
for male insert	HDC HQP DOD 2B0	1003140000

Note for plastic and metal housings, for locking bow

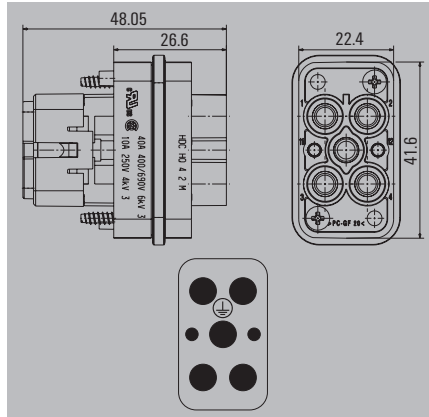


690 V / 250 V, 10 A / 40 A, size HQ

4 + 2 + ⊕



Male



Ordering data

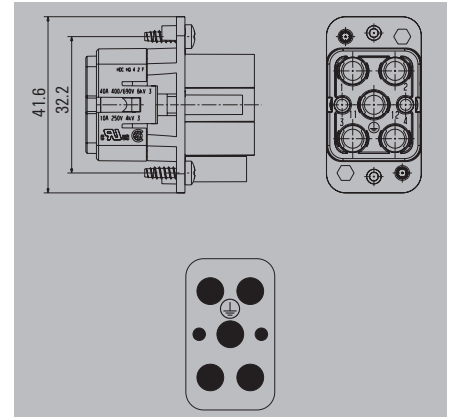
Type of connection	Type	Qty.	Order No.
Crimp connection	HDC HQ 4/2 MC	1	1003170000

For complete assembly you need four HX contacts and two HD contacts

Accessories

Type	Qty.	Order No.
Crimp contacts, male - gold		
HDC-C-HD-SM0.14-0.37AU	100	1651620000
HDC-C-HD-SM0.5AU	100	1651630000
HDC-C-HD-SM0.75-1.00AU	100	1651640000
HDC-C-HD-SM1.5AU	100	1651650000
HDC-C-HD-SM2.5AU	100	1651660000
Crimp contacts, male - silver		
HDC-C-HD-SM0.14-0.37AG	100	1651520000
HDC-C-HD-SM0.5AG	100	1651530000
HDC-C-HD-SM0.75-1.00AG	100	1601750000
HDC-C-HD-SM1.5AG	100	1651550000
HDC-C-HD-SM2.5AG	100	1651560000
HDC C HX SM1.5AG	25	1002910000
HDC C HX SM2.5AG	25	1002920000
HDC C HX SM4.0AG	25	1002930000
HDC C HX SM6.0AG	25	1002940000
Tools		
CTX CM 1.6/2.5	1	9018490000
CTIN CM 1.6/2.5	1	9205430000
REMOVAL TOOL HD	1	1866730000
Removal Tool HX	1	1002990000

Female



Ordering data

Type of connection	Type	Qty.	Order No.
Crimp connection	HDC HQ 4/2 FC	1	1003160000

For complete assembly you need four HX contacts and two HD contacts

Accessories

Type	Qty.	Order No.
Crimp contacts, female - gold		
HDC-C-HD-BM0.14-0.37AU	100	1651670000
HDC-C-HD-BM0.5AU	100	1651680000
HDC-C-HD-BM0.75-1.00AU	100	1651690000
HDC-C-HD-BM1.5AU	100	1651700000
HDC-C-HD-BM2.5AU	100	1651710000
Crimp contacts, female - silver		
HDC-C-HD-BM0.14-0.37AG	100	1651570000
HDC-C-HD-BM0.5AG	100	1651580000
HDC-C-HD-BM0.75-1.00AG	100	1601760000
HDC-C-HD-BM1.5AG	100	1651600000
HDC-C-HD-BM2.5AG	100	1651610000
HDC C HX BM1.5AG	25	1002950000
HDC C HX BM2.5AG	25	1002960000
HDC C HX BM4.0AG	25	1002970000
HDC C HX BM6.0AG	25	1002980000
Tools		
CTX CM 1.6/2.5	1	9018490000
CTIN CM 1.6/2.5	1	9205430000
REMOVAL TOOL HD	1	1866730000
Removal Tool HX	1	1002990000

Installation cut-out



Housing selection RockStar® IP65
Size HQ



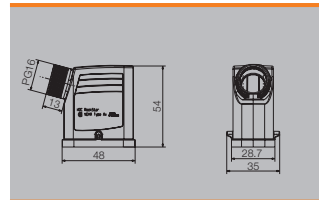
For additional housings, refer to chapter E for IP65

Hood

Plug housing, cable entry sideways



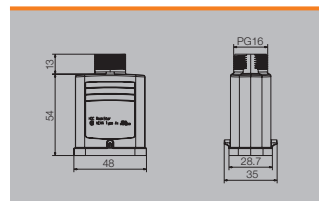
a	Version	Cover	b (mm)	Type	Order No.
PG 16	w. threading		54	HDC HQP TSLU 1PG16	1003090000



Plug housing, cable entry at top



a	Version	Cover	b (mm)	Type	Order No.
PG 16	w. threading		67	HDC HQP TOLU 1PG16	1003070000

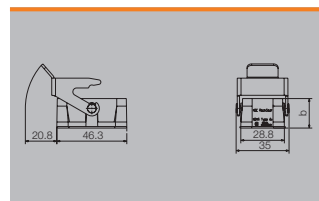


Base

Bulkhead housing



Version	Cover	b (mm)	Type	Order No.
		19.5	HDC HQP ALU	1003040000

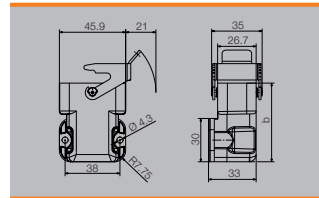


Note with locking bow

Bulkhead housing angled



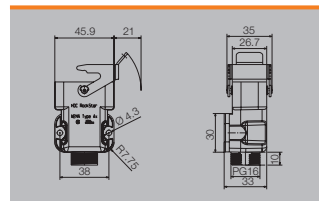
Version	Cover	b (mm)	Type	Order No.
angled		54.5	HDC HQP AWLU	1003060000



Base housing



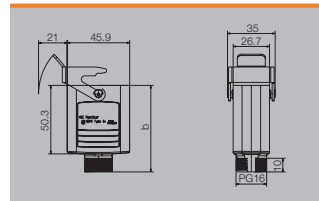
a	Version	Cover	b (mm)	Type	Order No.
PG 16	w. threading		54.5	HDC HQP SLU 1PG16	1003110000



Coupling housing



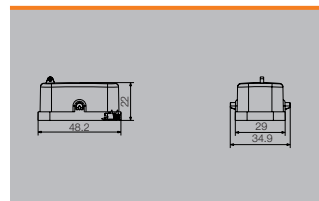
a	Version	Cover	b (mm)	Type	Order No.
PG 16	w. threading		63.5	HDC HQP KOLU 1PG16	1003120000



Cover



Version	Type	Order No.
for female insert	HDC HQP DMD 2B0	1003130000
for male insert	HDC HQP DDD 2B0	1003140000



Note for plastic and metal housings, for locking bow

MixMate series – the high-capacity connectors

Using the MixMate series, high rated currents and voltages can be transmitted concurrently with signals in a very confined space. MixMate is available in threaded, axial screw and crimp connection technology.






















Technical data

	S4	S8/24	S4/0	S4/2
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	UL/CSA	UL/CSA/VDE	UL/CSA/VDE	UL/CSA/VDE
Inserts				
No. of poles				
- Power contact	4 (+ PE)	8 (+ PE)	4 (+ PE)	4 (+ PE)
- Signal contact		24		2
Rated voltage				
- Power contact	1,000 V	400 V	830 V	830 V
- Signal contact		160 V		400 V
Rated voltage to UL/CSA	600 V	600 V	600 V	600 V
Rated current				
- Power contact	40 A	16 A	80 A	80 A
- Signal contact		10 A		16 A
Rated impulse withstand voltage				
- Power contact	8 kV	4 kV	8 kV	8 kV
- Signal contact		2.5 kV		6 kV
Pollution severity	3	3	3	3
Insulation resistance	$\geq 10^{10} \Omega$	$\geq 10^{10} \Omega$	$\geq 10^{10} \Omega$	$\geq 10^{10} \Omega$
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 to +125 °C	-40 °C to +125 °C	-40 °C to +125 °C	-40 °C to +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		
Contact resistance with min. and max. conductors	$\leq 1 \text{ m}\Omega$	$\leq 2 \text{ m}\Omega$ (Power) $\leq 4 \text{ m}\Omega$ (Signals)	$\leq 1 \text{ m}\Omega$	$\leq 1 \text{ m}\Omega$ (Power) $\leq 2 \text{ m}\Omega$ (Signals)
Contacts / Material				
Sockets and plug-in contact	Copper alloy	Copper alloy	Copper alloy	Copper alloy
Surface	Passivated silver	Passivated silver or gold-plated	Passivated silver	Passivated silver
Flexible conductor connection				
- Power contact	2.5 - 10 mm ² (AWG 14 - 8)	0.5 - 4 mm ² (AWG 20 - 12)	1.5 - 16 mm ² (AWG 16 - 6)	1.5 - 16 mm ² (AWG 16 - 6)
- Signal contact		0.14 - 2.5 mm ² (AWG 26 - 14)		0.5 - 2.5 mm ² (AWG 22 - 14)
Stripping length				
- Power contact	8 mm	7.5 mm	15 mm	15 mm
- Signal contact		8 mm		8 mm
Clamping torque				
- Power contact	1.1 - 1.7 Nm		1.2 Nm (1.5 mm ²) / 2 Nm (2.5 mm ²) / 3 Nm (4 - 16 mm ²)	1.2 Nm (1.5 mm ²) / 2 Nm (2.5 mm ²) / 3 Nm (4 - 16 mm ²)
- Signal contact				0.5 - 0.55 Nm
Tools				
- Hexagon socket, 2 mm	SW 2			
- Screwdriver	0.6 x 3.5 mm		SD 0.8 x 4 mm	SD 0.8 x 4 mm (Power) / SD 0.6 x 3.5 mm or PH1 (Signals)
- Crimping tool		CTIN 1.6/2.5 / CTX CM 1.6/2.5 (for 0.5 - 1.5 mm ²)		
PE connection via plug/socket				
- Clamping range	1.5/2.5 - 4/10 mm ²	0.5 - 6 mm ² (0.5 mm ² with ferrule)	0.5 - 16 mm ² (0.5 mm ² with ferrule 10 - 16 mm ² with ring cable lug)	0.5 - 16 mm ² (0.5 mm ² with ferrule 10 - 16 mm ² with ring cable lug)
- AWG conductor	AWG 16/14 - 12/8	AWG 20 - 10 (AWG 10 with ring cable lug)	AWG 20 - 6 (AWG 10, 8 and 6 with ring cable lug)	AWG 20 - 6 (AWG 10, 8 and 6 with ring cable lug)
- Stripping length	8 mm	13 mm	13 mm	13 mm
- Clamping torque	0.5 - 0.8 Nm	2 - 2.5 Nm	2 - 2.5 Nm	2 - 2.5 Nm
- Blade dimensions	SD 0.8 x 4 mm	SD 1.2 x 6.5 mm or PH2	SD 1.2 x 6.5 mm or PH2	SD 1.2 x 6.5 mm or PH2
Hinweis: When used properly and as designated, the listed connectors may not be connected or disconnected if there is a live voltage or load! * Power contact = Axial screw connection, Signal contact = Screw connection				

S6/12*	S6/36	S12/2	S4/8	S6/6*	S8/0
DIN EN 61984 DIN EN 60664-1 UL/CSA	DIN EN 61984 DIN EN 60664-1 UL/CSA/VDE	DIN EN 61984 DIN EN 60664-1 UL/CSA/VDE	DIN EN 61984 DIN EN 60664-1 UL/CSA/VDE	DIN EN 61984 DIN EN 60664-1 UL/CSA	DIN EN 61984 DIN EN 60664-1 UL/CSA/VDE
6 (+ PE) 12	6 (+ PE) 36	12 (+ PE) 2	4 (+ PE) 8	6 (+ PE) 6	8 (+ PE x 2)
690 V 400 V 600 V	690 V 160 V 600 V	690 V 250 V 600 V	400 V 400 V 600 V	690 V 400 V 600 V	690 V 600 V
48 A 16 A	40 A 10 A	40 A 10 A	80 A 16 A	100 A 16 A	110 A
8 kV 6 kV 3	8 kV 2.5 kV 3	8 kV 4 kV 3	6 kV 6 kV 3	8 kV 6 kV 3	8 kV 3
≥ 10 ¹⁰ Ω Glass-fibre reinforced PC (in UL list and approved for railway applications) -40 °C to +125 °C V-0	≥ 10 ¹⁰ Ω Glass-fibre reinforced PC (in UL list and approved for railway applications) -40 °C to +125 °C V-0	≥ 10 ¹⁰ Ω Glass-fibre reinforced PC (in UL list and approved for railway applications) -40 °C to +125 °C V-0	≥ 10 ¹⁰ Ω Glass-fibre reinforced PC (in UL list and approved for railway applications) -40 °C to +125 °C V-0	≥ 10 ¹⁰ Ω Glass-fibre reinforced PC (in UL list and approved for railway applications) -40 °C to +125 °C V-0	≥ 10 ¹⁰ Ω Glass-fibre reinforced PC (in UL list and approved for railway applications) -40 °C to +125 °C V-0
≥ 500 ≤ 2 mΩ (Power) ≤ 2 mΩ (Signals)	≥ 500 ≥ 500 ≤ 2 mΩ (Power) ≤ 4 mΩ (Signals)	≥ 500 ≥ 500 ≤ 2 mΩ (Power) ≤ 4 mΩ (Signals)	≥ 500 ≤ 1 mΩ (Power) ≤ 2 mΩ (Signals)	≥ 500 ≤ 1 mΩ (Power) ≤ 2 mΩ (Signals)	≥ 500 ≤ 1 mΩ
Copper alloy Passivated silver	Copper alloy Passivated silver or gold-plated	Copper alloy Passivated silver or gold-plated	Copper alloy Passivated silver	Copper alloy Passivated silver	Copper alloy Passivated silver
2.5 - 10 mm ² (AWG 14 - 8) 0.5 - 2.5 mm ² (AWG 24 - 14)	1.5 - 6 mm ² (AWG 16 - 10) 0.14 - 2.5 mm ² (AWG 26 - 14)	1.5 - 6 mm ² (AWG 16 - 10) 0.14 - 2.5 mm ² (AWG 26 - 14)	1.5 - 16 mm ² (AWG 16 - 6) 0.5 - 2.5 mm ² (AWG 22 - 14)	16 - 35 mm ² (AWG 6 - 2) 0.5 - 2.5 mm ² (AWG 24 - 14)	10 - 25 mm ² (AWG 8 - 4)
8 mm 12 mm	9 mm 8 mm	9 mm 8 mm	15 mm 8 mm	13 mm 12 mm	12 mm
1.1 - 1.7 Nm			1.2 Nm (1.5 mm ²) / 2 Nm (2.5 mm ²) / 3 Nm (4 - 16 mm ²)	6 - 8 Nm	6 Nm (10 - 16 mm ²) / 7 Nm (25 mm ²)
0.45 - 0.9 Nm			0.5 - 0.55 Nm	0.45 - 0.9 Nm	
SW 2 0.6 x 3.5 mm			SD 0.8 x 4 mm (Power) / SD 0.6 x 3.5 mm or PH1 (Signals)	SW 4 SD 0.6 x 3.5 or PZ 0	SW 4
	CTIN 1.6/2.5 / CTX CM 1.6/2.5 (for 0.5 - 1.5 mm ²)	CTIN 1.6/2.5 / CTX CM 1.6/2.5 (for 0.5 - 1.5 mm ²)			
2.5 - 10 mm ² AWG 14 - 8 8 mm 2 - 2.5 Nm SD 0.8 x 4 mm or PZ2	0.5 - 6 mm ² (0.5 mm ² with ferrule) AWG 20 - 10 (AWG 10 with ring cable lug) 13 mm 2 - 2.5 Nm SD 1.2 x 6.5 mm or PH2	0.5 - 6 mm ² (0.5 mm ² with ferrule) AWG 20 - 10 (AWG 10 with ring cable lug) 13 mm 2 - 2.5 Nm SD 1.2 x 6.5 mm or PH2	0.5 - 16 mm ² (0.5 mm ² with ferrule), 16 - 35 mm ² 10 - 16 mm ² with ring cable lug AWG 20 - 6 (AWG 10. 8 and 6 with ring cable lug) 13 mm 2 - 2.5 Nm SD 1.2 x 6.5 mm or PH2	16 - 35 mm ² AWG 6 - 2 8 mm 6 - 8 Nm SD 0.8 x 4 mm or PZ 1	10 - 25 mm ² AWG 8 - 4 12 mm 6 Nm (10 - 16 mm ²) / 7 Nm (25 mm ²) SD 5.5 x 1.0 or PH2

Overview

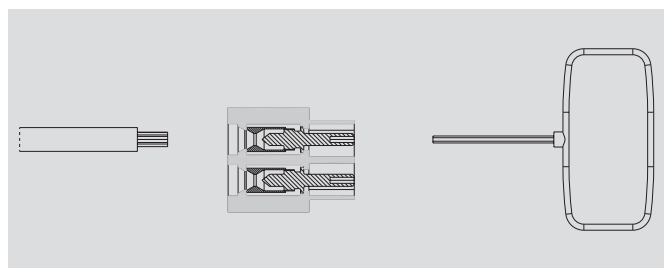
		Size	Rated voltage	Rated current	No. of poles	Tension clamp connection	TOP connection	Screw conn. with wire guard spring	Crimp connection	Axial screw connection	Page
		3	1,000 V	40 A	4 + ⊕					•	B.112
		4	400 V	16 A	8 + 24 + ⊕				•		B.114
		6	830 V	80 A	4 + 0 + ⊕			•			B.116
		6	830 V	80 A	4 + 2 + ⊕			•			B.118
		6	690 V	40 A	6 + 36 + ⊕				•		B.120
		6	690 V	48 A	6 + 12 + ⊕			•		•	B.122
		6	690 V	40 A	12 + 2 + ⊕				•		B.124
		8	400 V	80 A	4 + 8 + ⊕			•			B.126
		8	690 V	100 A	6 + 6 + ⊕			•		•	B.128
		8	690 V	110 A	8 + 0 + ⊕					•	B.130

Hex-socket wrench



Ordering data

Type	Qty.	Order No.
IS 3 KG	2	1806650000
IS 4 KG	2	1806660000



Assembly instructions:

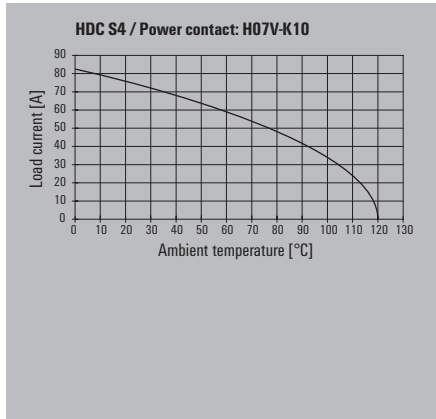
1. Strip wire, refer to the technical data for stripping length. Be careful not to twist the litz conductor!
2. Insert the litz conductor into the contact cavity until the insulation lies flush against the contact.
3. Insert the hex wrench into the corresponding contact on the mating face side. Hold the litz conductor in position when tightening the clamping nut.

Technical data

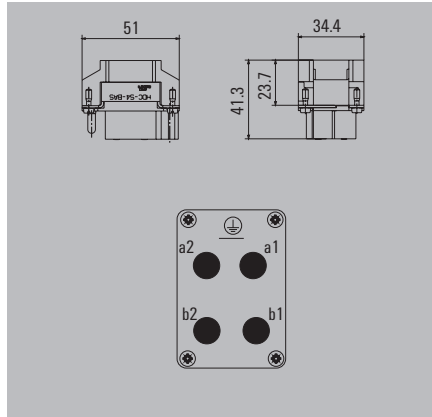
Power contacts	S 4	S 6/12	S 6/6
Stripping length	8 mm	8 mm	13 mm
Tightening torque	1,1 - 1,7 Nm	1,1 - 1,7 Nm	6 - 8 Nm
Hex-socket wrench	IS 2 KG	IS 2 KG	IS 4 KG

1000 V, 40 A, size 3

4 + ⊕



Male

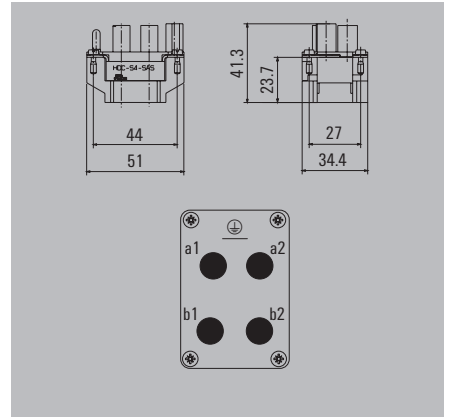


Ordering data

Type of connection	Type	Qty.	Order No.
Axial screw connection	HDC S4 SAS	1	1789990000

Combine these inserts only with housings with a high design (Size 16D).

Female

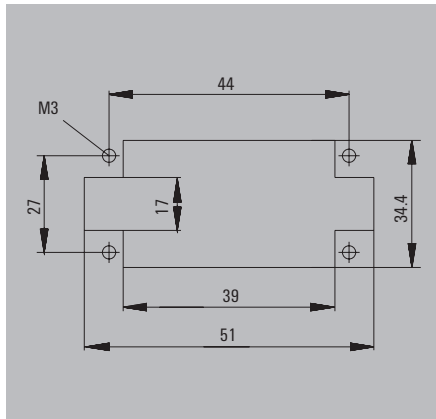


Ordering data

Type of connection	Type	Qty.	Order No.
Axial screw connection	HDC S4 BAS	1	1789980000

Combine these inserts only with housings with a high design (Size 16D).

Installation cut-out



Housing selection RockStar® IP65
Size 3



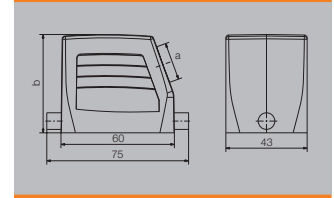
For additional housings, refer to
Chapter E for IP65 / Chapter F for IP68

Hood

Plug housing, cable entry sideways



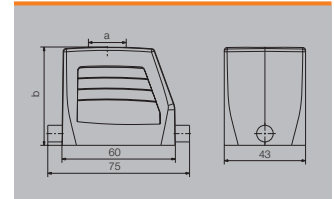
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		72	HDC 16D TSLU 1M25G	1787480000
M 32	w. threading		72	HDC 16D TSLU 1M32G	1787470000



Plug housing, cable entry at top



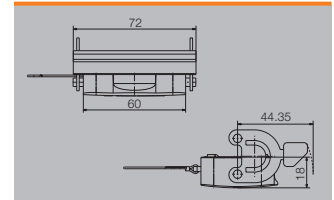
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		72	HDC 16D TOLU 1M25G	1787500000
M 32	w. threading		72	HDC 16D TOLU 1M32G	1787490000



Cover



Version	Type	Order No.
For hoods (upper parts of housings)	HDC 06B DMDL 1LB	1665210000

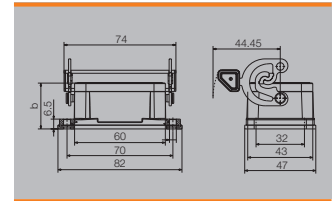


Base

Bulkhead housing



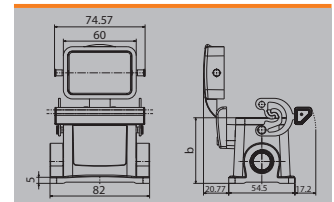
Version	Cover	b (mm)	Type	Order No.
		29	HDC 06B ALU	1202100000
	with cover	47	HDC 06B ADLU	1202500000



Base housing



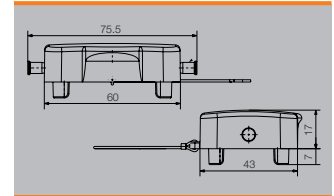
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		74	HDC 16D SLU 2M25G	1787520000
M 25	w. threading	with cover	92	HDC 16D SDLU 2M25G	1787540000
M 32	w. threading		74	HDC 16D SLU 2M32G	1787510000



Cover

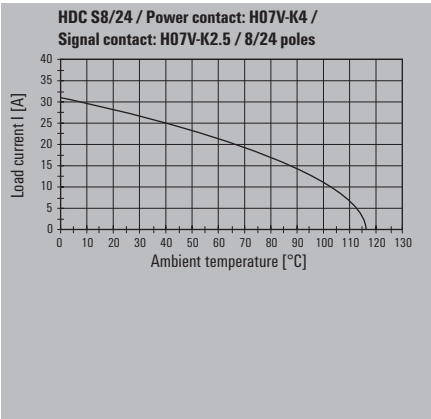


Version	Type	Order No.
For bases (lower parts of housings)	HDC 06B DDDL 2B0	1665200000

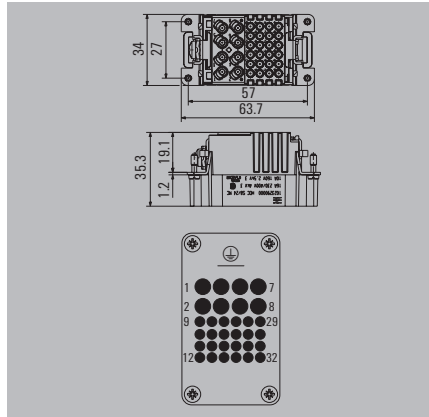


400 V, 16 A, size 4

8 + 24 + ⊕



Male

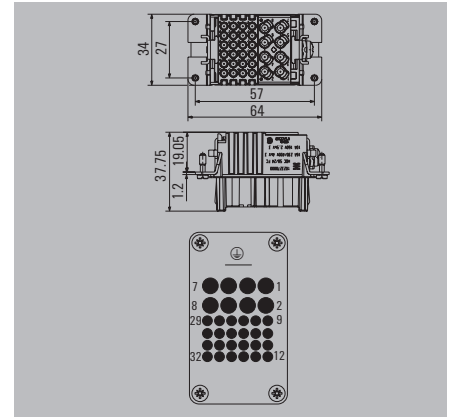
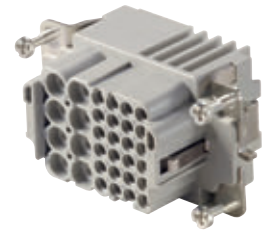


Ordering data

Type of connection	Type	Qty.	Order No.
Crimp connection	HDC S8/24 MC	1	1023290000

The signal contacts are designed for a rated voltage of 160 V and a rated current of 10 A.

Female

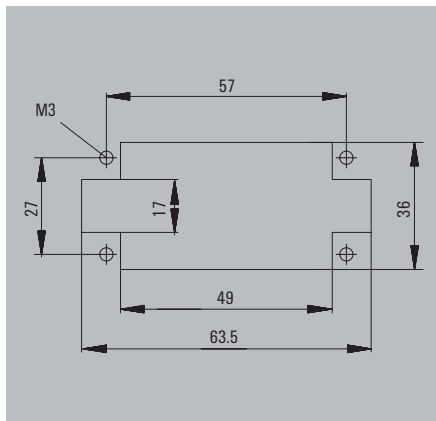


Ordering data

Type of connection	Type	Qty.	Order No.
Crimp connection	HDC S8/24 FC	1	1023270000

The signal contacts are designed for a rated voltage of 160 V and a rated current of 10 A.

Installation cut-out



Accessories

Type	Qty.	Order No.
Crimp contacts, male - gold		
HDC-C-HE-SM0.5AU	100	1651420000
HDC-C-HE-SM0.75-1.00AU	100	1651430000
HDC-C-HE-SM1.5AU	100	1651440000
HDC-C-HE-SM2.5AU	100	1651450000
HDC-C-HE-SM4.0AU	100	1651460000
HDC-C-HD-SM0.14-0.37AU	100	1651620000
HDC-C-HD-SM0.5AU	100	1651630000
HDC-C-HD-SM0.75-1.00AU	100	1651640000
HDC-C-HD-SM1.5AU	100	1651650000
HDC-C-HD-SM2.5AU	100	1651660000
Crimp contacts, male - silver		
HDC-C-HE-SM0.5AG	100	1200500000
HDC-C-HE-SM0.75-1.00AG	100	1200600000
HDC-C-HE-SM1.5AG	100	1200700000
HDC-C-HE-SM2.5AG	100	1200800000
HDC-C-HE-SM4.0AG	100	1200900000
HDC-C-HD-SM0.14-0.37AG	100	1651520000
HDC-C-HD-SM0.5AG	100	1651530000
HDC-C-HD-SM0.75-1.00AG	100	1601750000
HDC-C-HD-SM1.5AG	100	1651550000
HDC-C-HD-SM2.5AG	100	1651560000
Tools		
CTIN CM 1.6/2.5	1	9205430000
Removal Tool HE	1	1866750000
REMOVAL TOOL HD	1	1866730000

Accessories

Type	Qty.	Order No.
Crimp contacts, female - gold		
HDC-C-HE-BM0.5AU	100	1651470000
HDC-C-HE-BM0.75-1.00AU	100	1651480000
HDC-C-HE-BM1.5AU	100	1651490000
HDC-C-HE-BM2.5AU	100	1651500000
HDC-C-HE-BM4.0AU	100	1651510000
HDC-C-HD-BM0.14-0.37AU	100	1651670000
HDC-C-HD-BM0.5AU	100	1651680000
HDC-C-HD-BM0.75-1.00AU	100	1651690000
HDC-C-HD-BM1.5AU	100	1651700000
HDC-C-HD-BM2.5AU	100	1651710000
Crimp contacts, female - silver		
HDC-C-HE-BM0.5AG	100	1201100000
HDC-C-HE-BM0.75-1.00AG	100	1201200000
HDC-C-HE-BM1.5AG	100	1201300000
HDC-C-HE-BM2.5AG	100	1201400000
HDC-C-HE-BM4.0AG	100	1201500000
HDC-C-HD-BM0.14-0.37AG	100	1651570000
HDC-C-HD-BM0.5AG	100	1651580000
HDC-C-HD-BM0.75-1.00AG	100	1601760000
HDC-C-HD-BM1.5AG	100	1651600000
HDC-C-HD-BM2.5AG	100	1651610000
Tools		
CTIN CM 1.6/2.5	1	9205430000
Removal Tool HE	1	1866750000
REMOVAL TOOL HD	1	1866730000

Housing selection RockStar® IP65
Size 4

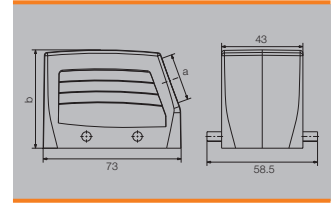


For additional housings, refer to
Chapter E for IP65 / Chapter F for IP68

Plug housing, cable entry sideways



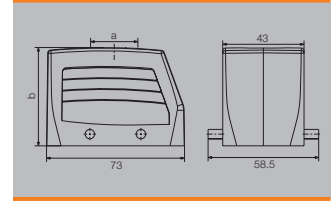
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		52	HDC 10B TSBU 1M20G	1787560000
M 25	w. threading		52	HDC 10B TSBU 1M25G	1787550000
M 25	w. threading		72	HDC 24D TSBU 1M25G	1787240000
M 32	w. threading		72	HDC 24D TSBU 1M32G	1787230000



Plug housing, cable entry at top



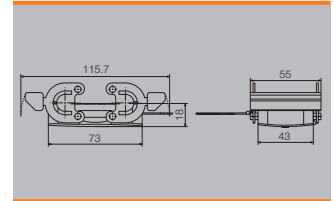
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		52	HDC 10B TOBU 1M20G	1787600000
M 25	w. threading		52	HDC 10B TOBU 1M25G	1787590000
M 25	w. threading		72	HDC 24D TOBU 1M25G	1787300000
M 32	w. threading		72	HDC 24D TOBU 1M32G	1787290000



Cover



Version	Type	Order No.
For hoods (upper parts of housings)	HDC 10B DMDQ 2QB	1665240000

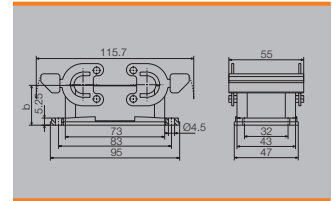


Base

Bulkhead housing



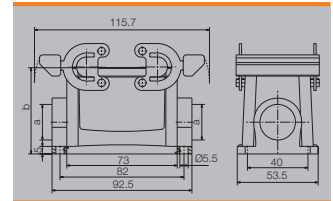
Version	Cover	b (mm)	Type	Order No.
		29.3	HDC 10B ABU	1205000000



Base housing



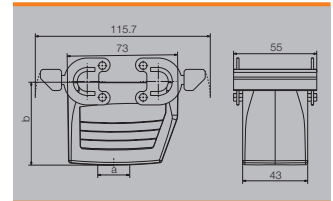
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		57	HDC 10B SBU 2M20G	1787640000
M 25	w. threading		57	HDC 10B SBU 2M25G	1787630000



Coupling housing



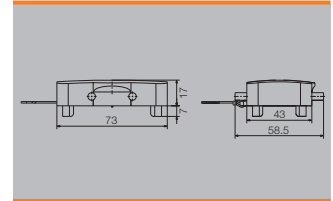
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		55	HDC 10B KBU 1M20G	1787720000



Cover

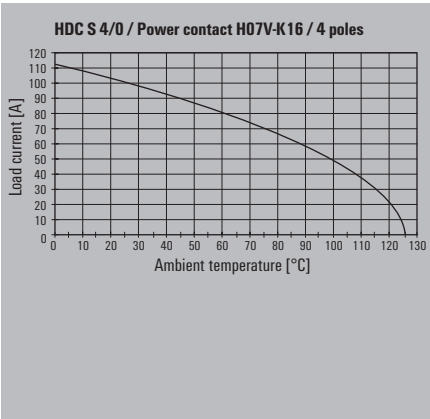


Version	Type	Order No.
For bases (lower parts of housings)	HDC 10B DDDQ 4B0	1665230000

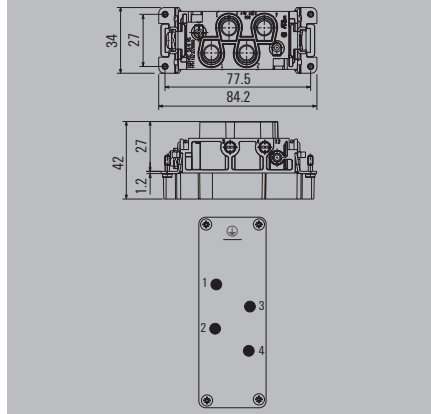
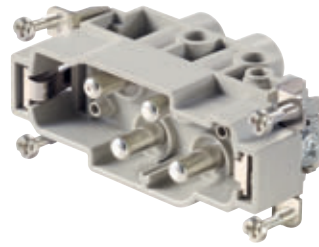


830 V, 80 A, size 6

4 + 0 + ⊕



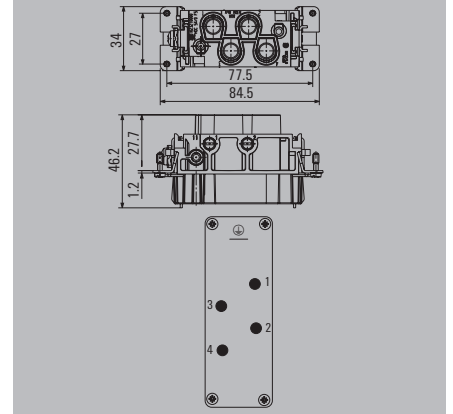
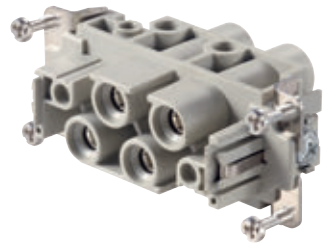
Male



Ordering data

Type of connection	Type	Qty.	Order No.
Screw connection	HDC S4/0 MS	1	1023220000

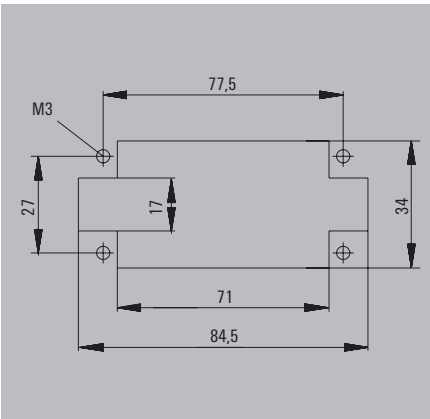
Female



Ordering data

Type of connection	Type	Qty.	Order No.
Screw connection	HDC S4/0 FS	1	1023210000

Installation cut-out



Housing selection RockStar® IP65
Size 6

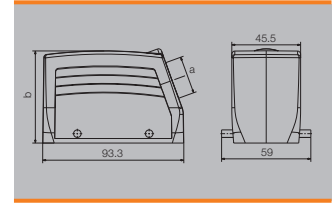


For additional housings, refer to
Chapter E for IP65 / Chapter F for IP68

Plug housing, cable entry sideways



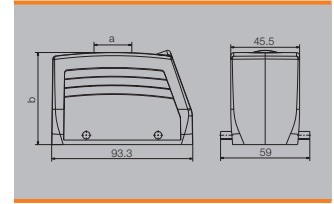
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 16B TSBU 1M25G	1788180000
M 25	w. threading		76	HDC 40D TSBU 1M25G	1787010000
M 32	w. threading		76	HDC 40D TSBU 1M32G	1787000000



Plug housing, cable entry at top



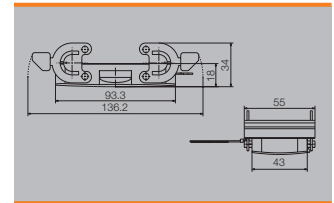
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 16B TOBU 1M25G	1788210000
M 25	w. threading		76	HDC 40D TOBU 1M25G	1787070000
M 32	w. threading		76	HDC 40D TOBU 1M32G	1787060000



Cover



Version	Type	Order No.
For hoods (upper parts of housings)	HDC 16B DMDQ 2QB	1665270000

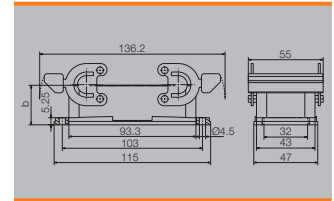


Base

Bulkhead housing



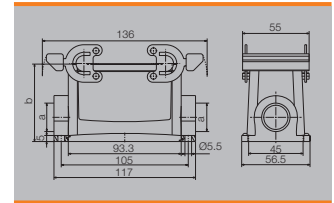
Version	Cover	b (mm)	Type	Order No.
		29	HDC 16B ABU	1208600000



Base housing



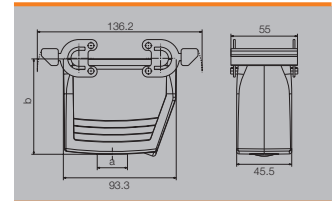
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		64	HDC 16B SBU 2M25G	1788240000
M 25	w. threading		84	HDC 40D SBU 2M25G	1787120000
M 32	w. threading		84	HDC 40D SBU 2M32G	1787110000



Coupling housing



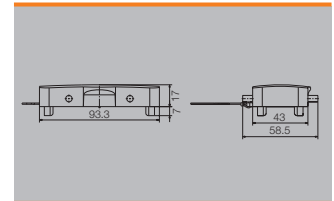
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		79	HDC 40D KBU 1M25G	1787200000
M 32	w. threading		79	HDC 40D KBU 1M32G	1787190000



Cover

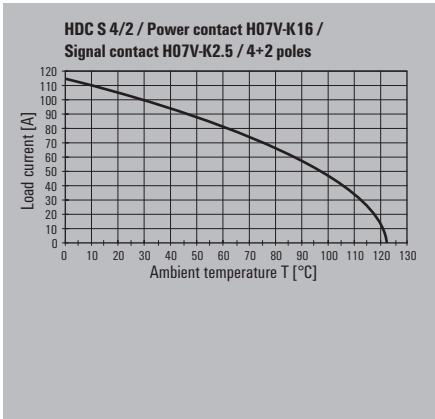


Version	Type	Order No.
For bases (lower parts of housings)	HDC 16B DDDQ 4B0	1665260000

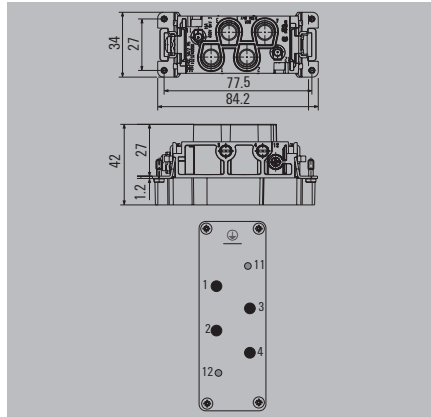
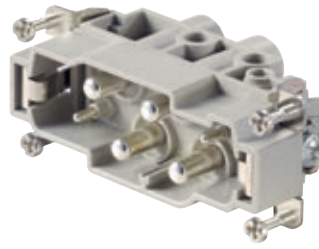


830 V, 80 A, size 6

4 + 2 + ⊕



Male

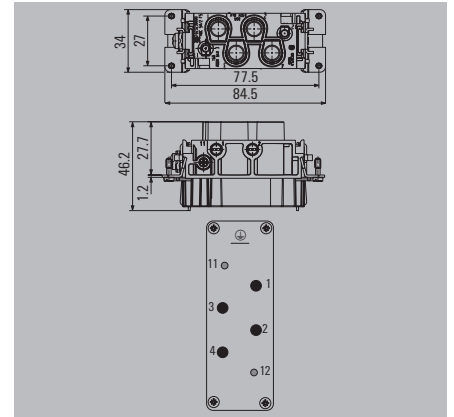
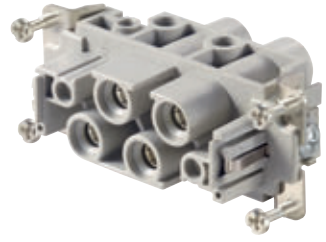


Ordering data

Type of connection	Type	Qty.	Order No.
Screw connection	HDC S4/2 MS	1	1023240000

The signal contacts are designed for a rated voltage of 400V and a rated current of 16A.

Female

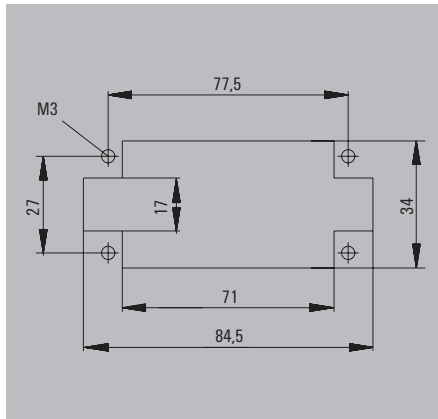


Ordering data

Type of connection	Type	Qty.	Order No.
Screw connection	HDC S4/2 FS	1	1023230000

The signal contacts are designed for a rated voltage of 400V and a rated current of 16A.

Installation cut-out



Housing selection RockStar® IP65
Size 6



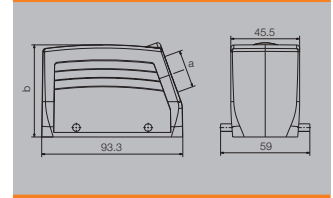
For additional housings, refer to
Chapter E for IP65 / Chapter F for IP68

Hood

Plug housing, cable entry sideways



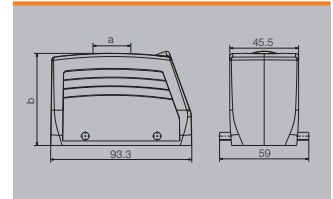
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 16B TSBU 1M25G	1788180000
M 25	w. threading		76	HDC 40D TSBU 1M25G	1787010000
M 32	w. threading		76	HDC 40D TSBU 1M32G	1787000000



Plug housing, cable entry at top



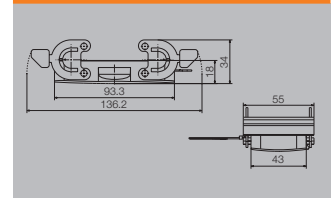
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 16B TOBU 1M25G	1788210000
M 25	w. threading		76	HDC 40D TOBU 1M25G	1787070000
M 32	w. threading		76	HDC 40D TOBU 1M32G	1787060000



Cover



Version	Type	Order No.
For hoods (upper parts of housings)	HDC 16B DMDQ 2QB	1665270000

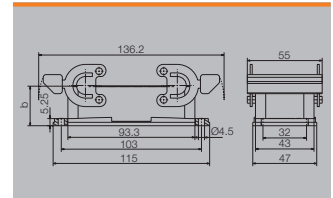


Base

Bulkhead housing



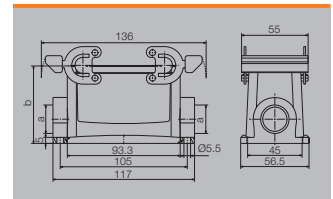
Version	Cover	b (mm)	Type	Order No.
		29	HDC 16B ABU	1208600000



Base housing



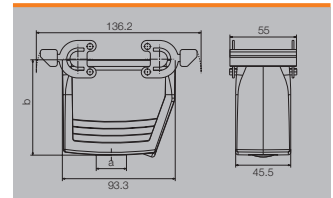
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		64	HDC 16B SBU 2M25G	1788240000
M 25	w. threading		84	HDC 40D SBU 2M25G	1787120000
M 32	w. threading		84	HDC 40D SBU 2M32G	1787110000



Coupling housing



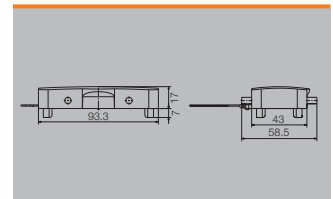
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		79	HDC 40D KBU 1M25G	1787200000
M 32	w. threading		79	HDC 40D KBU 1M32G	1787190000



Cover

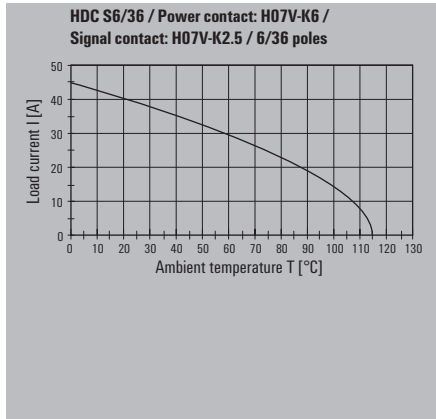


Version	Type	Order No.
For bases (lower parts of housings)	HDC 16B DDDQ 4B0	1665260000

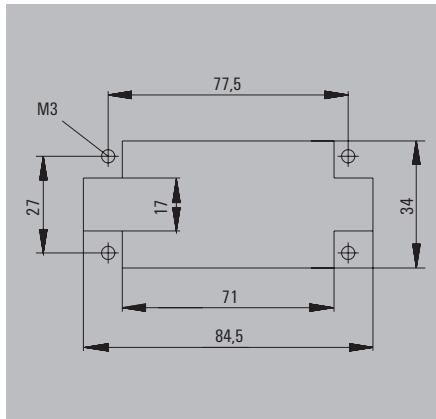


690 V, 40 A, size 6

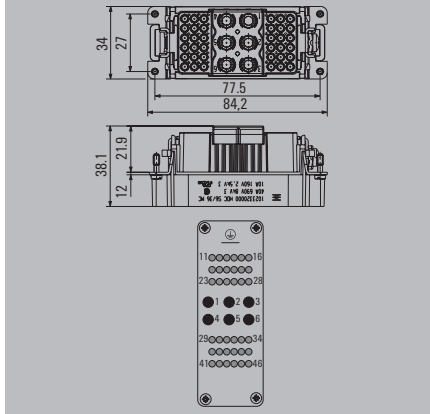
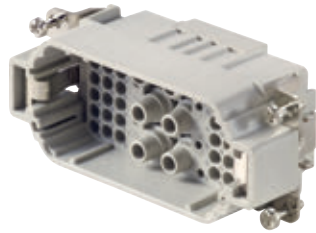
6 + 36 + ⊕



Installation cut-out



Male



Ordering data

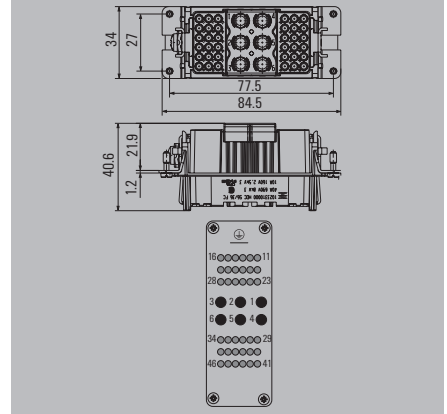
Type of connection	Type	Qty.	Order No.
Crimp connection	HDC S6/36 MC	1	1023320000

The signal contacts are designed for a rated voltage of 160 V and a rated current of 10 A.

Accessories

Type	Qty.	Order No.
Crimp contacts, male - gold		
HDC-C-HD-SM0.14-0.37AU	100	1651620000
HDC-C-HD-SM0.5AU	100	1651630000
HDC-C-HD-SM0.75-1.00AU	100	1651640000
HDC-C-HD-SM1.5AU	100	1651650000
HDC-C-HD-SM2.5AU	100	1651660000
Crimp contacts, male - silver		
HDC-C-HD-SM0.14-0.37AG	100	1651520000
HDC-C-HD-SM0.5AG	100	1651530000
HDC-C-HD-SM0.75-1.00AG	100	1601750000
HDC-C-HD-SM1.5AG	100	1651550000
HDC-C-HD-SM2.5AG	100	1651560000
HDC C HX SM1.5AG	25	1002910000
HDC C HX SM2.5AG	25	1002920000
HDC C HX SM4.0AG	25	1002930000
HDC C HX SM6.0AG	25	1002940000
Tools		
CTIN CM 1.6/2.5	1	9205430000
CTX CM 1.6/2.5	1	9018490000
REMOVAL TOOL HD	1	1866730000
Removal Tool HX	1	1002990000

Female



Ordering data

Type of connection	Type	Qty.	Order No.
Crimp connection	HDC S6/36 FC	1	1023310000

The signal contacts are designed for a rated voltage of 160 V and a rated current of 10 A.

Accessories

Type	Qty.	Order No.
Crimp contacts, female - gold		
HDC-C-HD-BM0.14-0.37AU	100	1651670000
HDC-C-HD-BM0.5AU	100	1651680000
HDC-C-HD-BM0.75-1.00AU	100	1651690000
HDC-C-HD-BM1.5AU	100	1651700000
HDC-C-HD-BM2.5AU	100	1651710000
Crimp contacts, female - silver		
HDC-C-HD-BM0.14-0.37AG	100	1651570000
HDC-C-HD-BM0.5AG	100	1651580000
HDC-C-HD-BM0.75-1.00AG	100	1601760000
HDC-C-HD-BM1.5AG	100	1651600000
HDC-C-HD-BM2.5AG	100	1651610000
HDC C HX BM1.5AG	25	1002950000
HDC C HX BM2.5AG	25	1002960000
HDC C HX BM4.0AG	25	1002970000
HDC C HX BM6.0AG	25	1002980000
Tools		
CTIN CM 1.6/2.5	1	9205430000
CTX CM 1.6/2.5	1	9018490000
REMOVAL TOOL HD	1	1866730000
Removal Tool HX	1	1002990000

Housing selection RockStar® IP65
Size 6

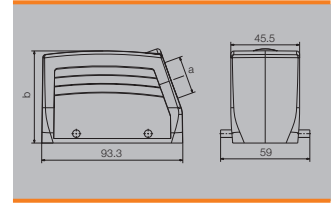


For additional housings, refer to
Chapter E for IP65 / Chapter F for IP68

Plug housing, cable entry sideways



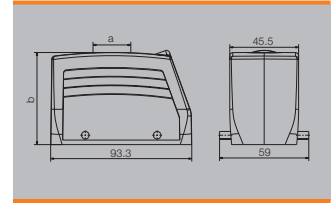
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 16B TSBU 1M25G	1788180000
M 25	w. threading		76	HDC 40D TSBU 1M25G	1787010000
M 32	w. threading		76	HDC 40D TSBU 1M32G	1787000000



Plug housing, cable entry at top



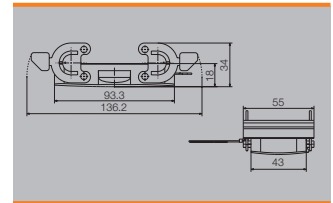
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 16B TOBU 1M25G	1788210000
M 25	w. threading		76	HDC 40D TOBU 1M25G	1787070000
M 32	w. threading		76	HDC 40D TOBU 1M32G	1787060000



Cover



Version	Type	Order No.
For hoods (upper parts of housings)	HDC 16B DMDQ 2QB	1665270000

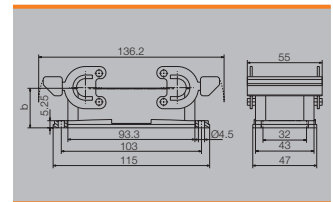


Base

Bulkhead housing



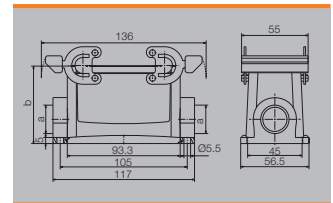
Version	Cover	b (mm)	Type	Order No.
		29	HDC 16B ABU	1208600000



Base housing



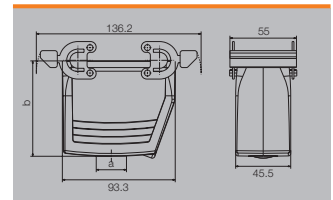
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		64	HDC 16B SBU 2M25G	1788240000
M 25	w. threading		84	HDC 40D SBU 2M25G	1787120000
M 32	w. threading		84	HDC 40D SBU 2M32G	1787110000



Coupling housing



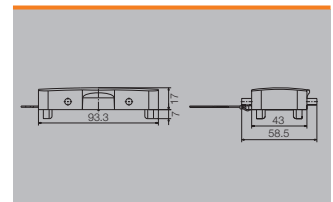
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		79	HDC 40D KBU 1M25G	1787200000
M 32	w. threading		79	HDC 40D KBU 1M32G	1787190000



Cover

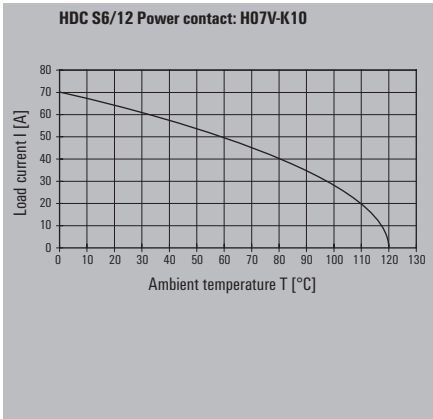


Version	Type	Order No.
For bases (lower parts of housings)	HDC 16B DDDQ 4B0	1665260000

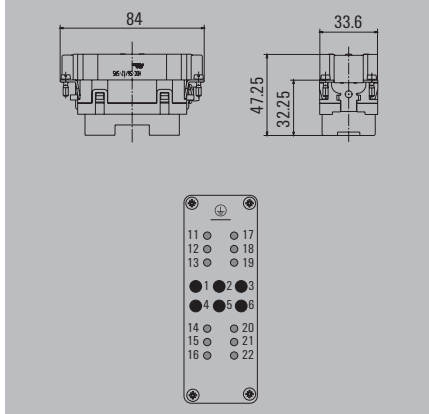
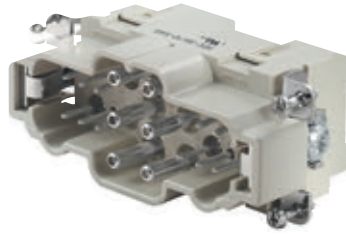


690 V, 48 A, size 6

6 + 12 + ⊕



Male

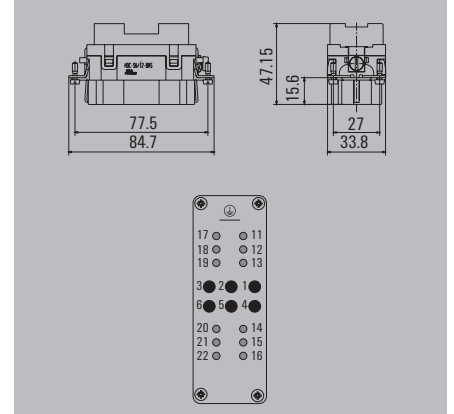


Ordering data

Type of connection	Type	Qty.	Order No.
Axial screw connection	HDC S6 12 SAS	1	1790000000

The signal contacts are designed for a rated voltage of 400V and a rated current of 16A.

Female

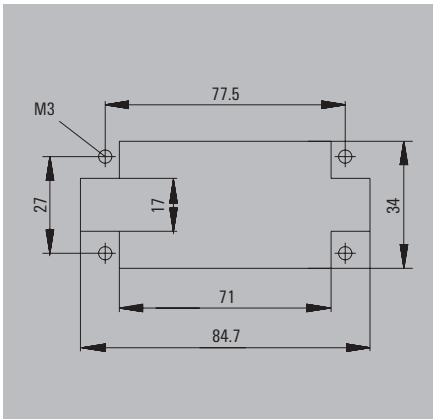


Ordering data

Type of connection	Type	Qty.	Order No.
Axial screw connection	HDC S6 12 BAS	1	1790010000

The signal contacts are designed for a rated voltage of 400V and a rated current of 16A.

Installation cut-out



Housing selection RockStar® IP65
Size 6



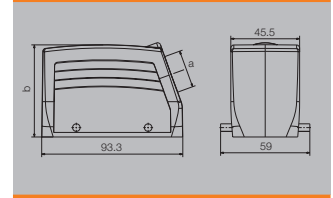
For additional housings, refer to
Chapter E for IP65 / Chapter F for IP68

Hood

Plug housing, cable entry sideways



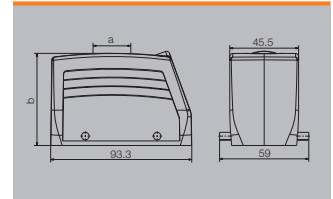
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 16B TSBU 1M25G	1788180000
M 25	w. threading		76	HDC 40D TSBU 1M25G	1787010000
M 32	w. threading		76	HDC 40D TSBU 1M32G	1787000000



Plug housing, cable entry at top



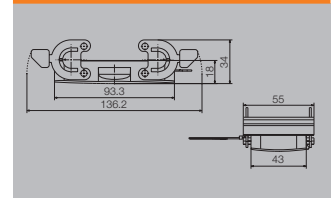
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 16B TOBU 1M25G	1788210000
M 25	w. threading		76	HDC 40D TOBU 1M25G	1787070000
M 32	w. threading		76	HDC 40D TOBU 1M32G	1787060000



Cover



Version	Type	Order No.
For hoods (upper parts of housings)	HDC 16B DMDQ 2QB	1665270000

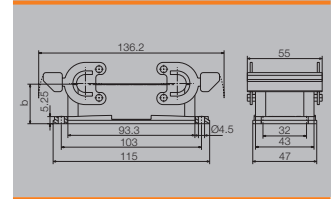


Base

Bulkhead housing



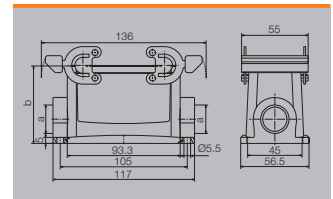
Version	Cover	b (mm)	Type	Order No.
		29	HDC 16B ABU	1208600000



Base housing



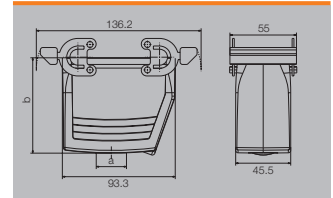
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		64	HDC 16B SBU 2M25G	1788240000
M 25	w. threading		84	HDC 40D SBU 2M25G	1787120000
M 32	w. threading		84	HDC 40D SBU 2M32G	1787110000



Coupling housing



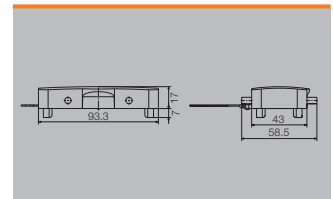
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		79	HDC 40D KBU 1M25G	1787200000
M 32	w. threading		79	HDC 40D KBU 1M32G	1787190000



Cover

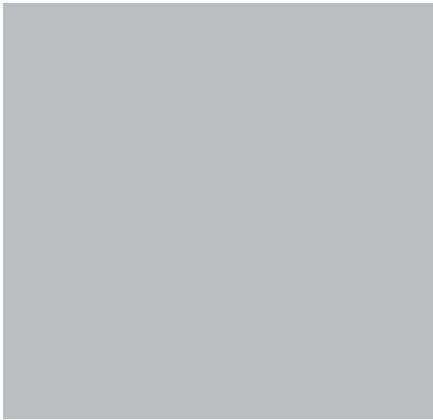
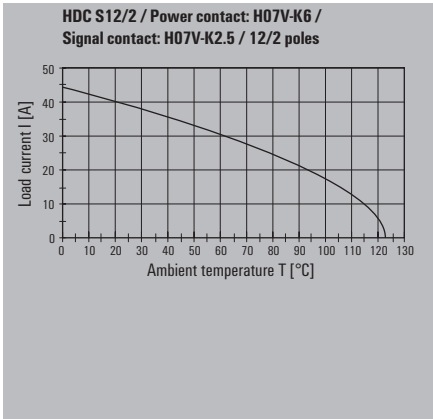


Version	Type	Order No.
For bases (lower parts of housings)	HDC 16B DDDQ 4B0	1665260000

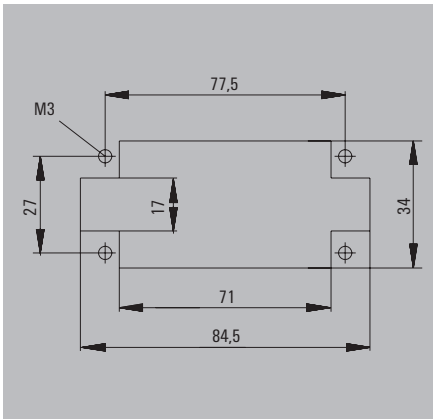


690 V, 40 A, size 6

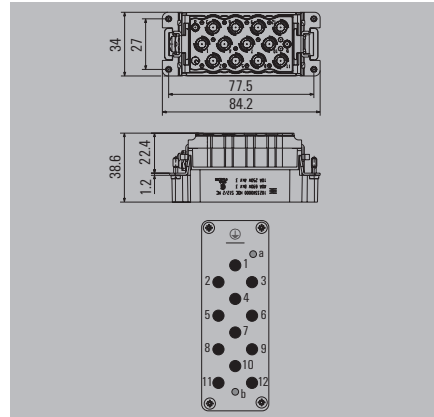
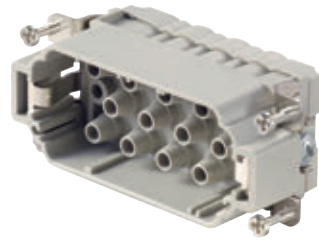
12 + 2 + ⊕



Installation cut-out



Male



Ordering data

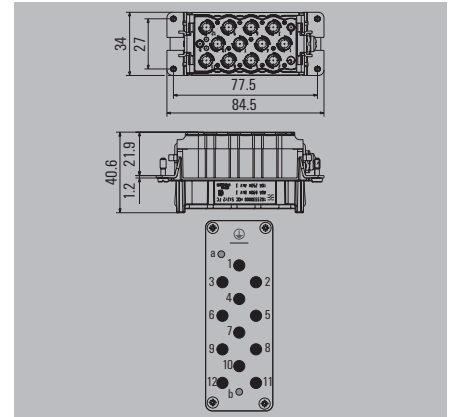
Type of connection	Type	Qty.	Order No.
Crimp connection	HDC S12/2 MC	1	1023340000

The signal contacts are designed for a rated voltage of 250 V and a rated current of 10 A.

Accessories

Type	Qty.	Order No.
Crimp contacts, male - gold		
HDC-C-HD-SM0.14-0.37AU	100	1651620000
HDC-C-HD-SM0.5AU	100	1651630000
HDC-C-HD-SM0.75-1.00AU	100	1651640000
HDC-C-HD-SM1.5AU	100	1651650000
HDC-C-HD-SM2.5AU	100	1651660000
Crimp contacts, male - silver		
HDC-C-HD-SM0.14-0.37AG	100	1651520000
HDC-C-HD-SM0.5AG	100	1651530000
HDC-C-HD-SM0.75-1.00AG	100	1601750000
HDC-C-HD-SM1.5AG	100	1651550000
HDC-C-HD-SM2.5AG	100	1651560000
HDC C HX SM1.5AG	25	1002910000
HDC C HX SM2.5AG	25	1002920000
HDC C HX SM4.0AG	25	1002930000
HDC C HX SM6.0AG	25	1002940000
Tools		
CTIN CM 1.6/2.5	1	9205430000
CTX CM 1.6/2.5	1	9018490000
REMOVAL TOOL HD	1	1866730000
Removal Tool HX	1	1002990000

Female



Ordering data

Type of connection	Type	Qty.	Order No.
Crimp connection	HDC S12/2 FC	1	1023330000

The signal contacts are designed for a rated voltage of 250 V and a rated current of 10 A.

Accessories

Type	Qty.	Order No.
Crimp contacts, female - gold		
HDC-C-HD-BM0.14-0.37AU	100	1651670000
HDC-C-HD-BM0.5AU	100	1651680000
HDC-C-HD-BM0.75-1.00AU	100	1651690000
HDC-C-HD-BM1.5AU	100	1651700000
HDC-C-HD-BM2.5AU	100	1651710000
Crimp contacts, female - silver		
HDC-C-HD-BM0.14-0.37AG	100	1651570000
HDC-C-HD-BM0.5AG	100	1651580000
HDC-C-HD-BM0.75-1.00AG	100	1601760000
HDC-C-HD-BM1.5AG	100	1651600000
HDC-C-HD-BM2.5AG	100	1651610000
HDC C HX BM1.5AG	25	1002950000
HDC C HX BM2.5AG	25	1002960000
HDC C HX BM4.0AG	25	1002970000
HDC C HX BM6.0AG	25	1002980000
Tools		
CTIN CM 1.6/2.5	1	9205430000
CTX CM 1.6/2.5	1	9018490000
REMOVAL TOOL HD	1	1866730000
Removal Tool HX	1	1002990000

Housing selection RockStar® IP65
Size 6



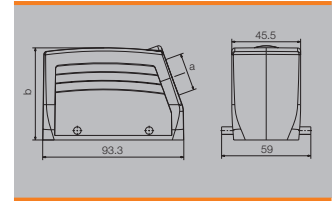
For additional housings, refer to
Chapter E for IP65 / Chapter F for IP68

Hood

Plug housing, cable entry sideways



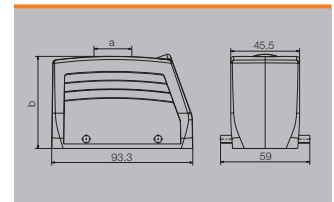
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 16B TSBU 1M25G	1788180000
M 25	w. threading		76	HDC 40D TSBU 1M25G	1787010000
M 32	w. threading		76	HDC 40D TSBU 1M32G	1787000000



Plug housing, cable entry at top



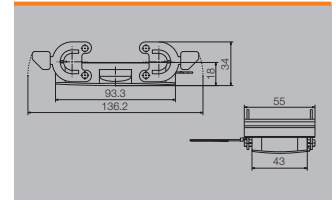
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 16B TOBU 1M25G	1788210000
M 25	w. threading		76	HDC 40D TOBU 1M25G	1787070000
M 32	w. threading		76	HDC 40D TOBU 1M32G	1787060000



Cover



Version	Type	Order No.
For hoods (upper parts of housings)	HDC 16B DMDQ 2QB	1665270000

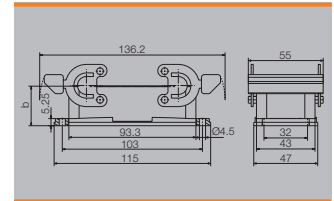


Base

Bulkhead housing



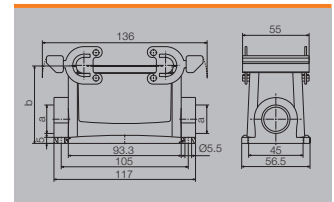
Version	Cover	b (mm)	Type	Order No.
		29	HDC 16B ABU	1208600000



Base housing



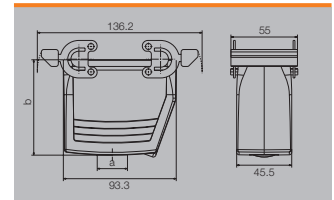
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		64	HDC 16B SBU 2M25G	1788240000
M 25	w. threading		84	HDC 40D SBU 2M25G	1787120000
M 32	w. threading		84	HDC 40D SBU 2M32G	1787110000



Coupling housing



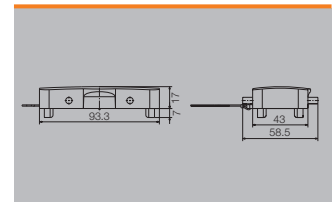
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		79	HDC 40D KBU 1M25G	1787200000
M 32	w. threading		79	HDC 40D KBU 1M32G	1787190000



Cover

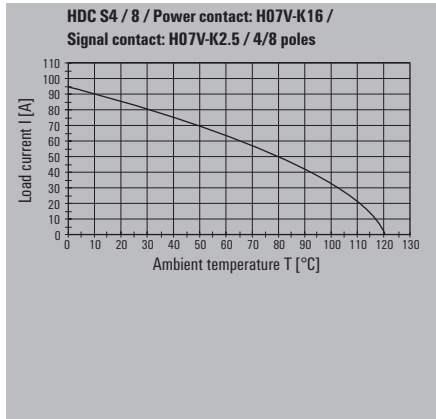


Version	Type	Order No.
For bases (lower parts of housings)	HDC 16B DDDQ 4B0	1665260000

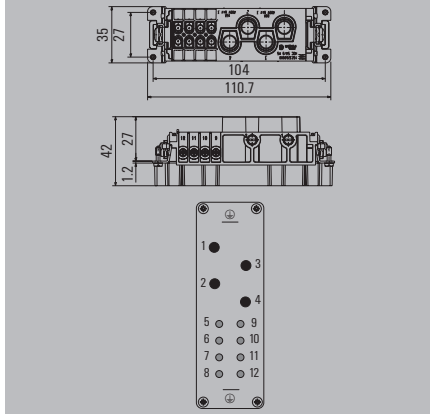
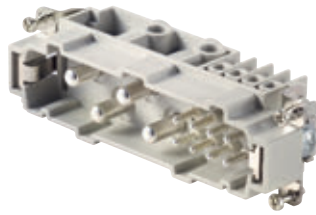


400 V, 80 A, size 8

4 + 8 + ⊕



Male

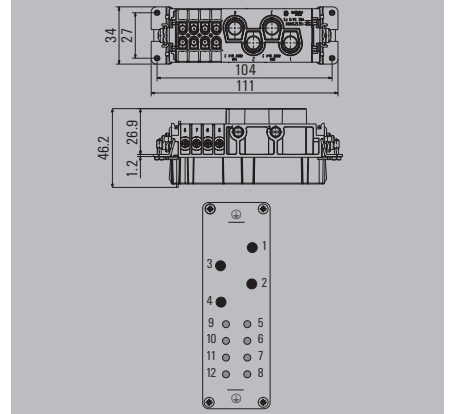
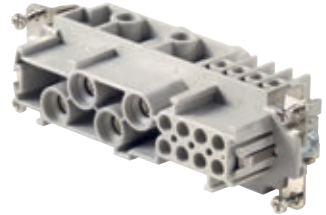


Ordering data

Type of connection	Type	Qty.	Order No.
Screw connection	HDC S4/8 MS	1	1023260000

The signal contacts are designed for a rated voltage of 400V and a rated current of 16A.

Female

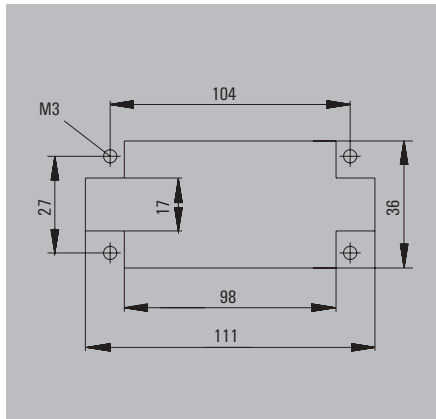


Ordering data

Type of connection	Type	Qty.	Order No.
Screw connection	HDC S4/8 FS	1	1023250000

The signal contacts are designed for a rated voltage of 400V and a rated current of 16A.

Installation cut-out



Housing selection RockStar® IP65
Size 8



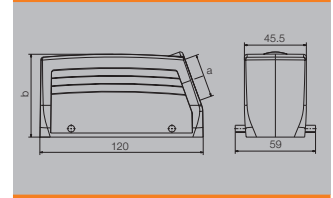
For additional housings, refer to
Chapter E for IP65 / Chapter F for IP68

Hood

Plug housing, cable entry sideways



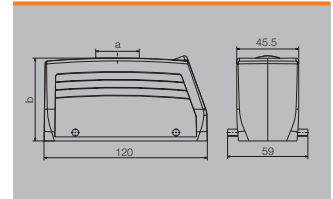
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 24B TSBU 1M25G	1787760000
M 25	w. threading		76	HDC 64D TSBU 1M25G	1786780000
M 32	w. threading		61	HDC 24B TSBU 1M32G	1787750000
M 32	w. threading		76	HDC 64D TSBU 1M32G	1786770000



Plug housing, cable entry at top



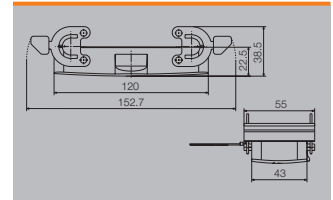
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 24B TOBU 1M25G	1787820000
M 32	w. threading		61	HDC 24B TOBU 1M32G	1787810000
M 32	w. threading		76	HDC 64D TOBU 1M32G	1786830000



Cover



Version	Type	Order No.
For hoods (upper parts of housings)	HDC 24B DMDQ 2QB	1665640000

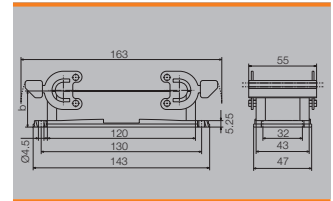


Base

Bulkhead housing



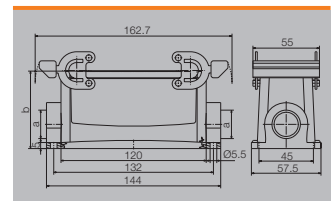
Version	Cover	b (mm)	Type	Order No.
		29.3	HDC 24B ABU	1212400000



Base housing



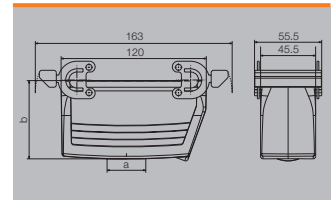
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		64	HDC 24B SBU 2M25G	1787870000
M 25	w. threading		84	HDC 64D SBU 2M25G	1786890000
M 32	w. threading		84	HDC 64D SBU 2M32G	1786880000



Coupling housing



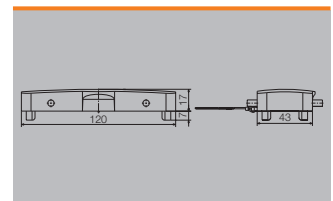
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		65	HDC 24B KBU 1M25G	1787920000
M 32	w. threading		79	HDC 64D KBU 1M32G	1786960000



Cover

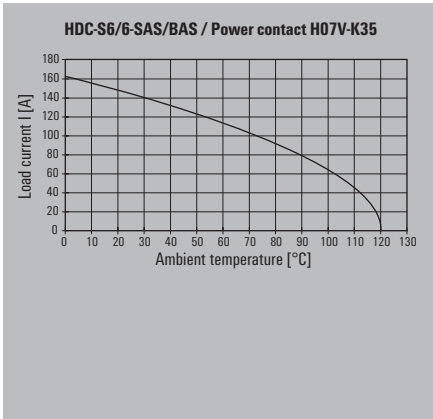


Version	Type	Order No.
For bases (lower parts of housings)	HDC 24B DDDQ 4B0	1665630000

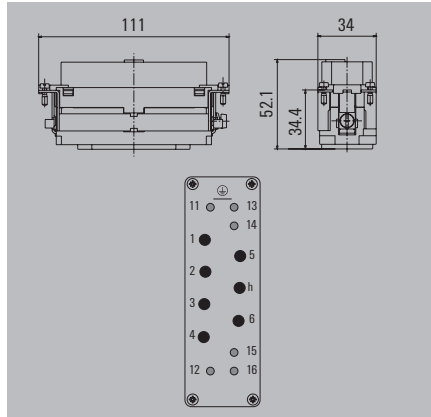


690 V, 100 A, size 8

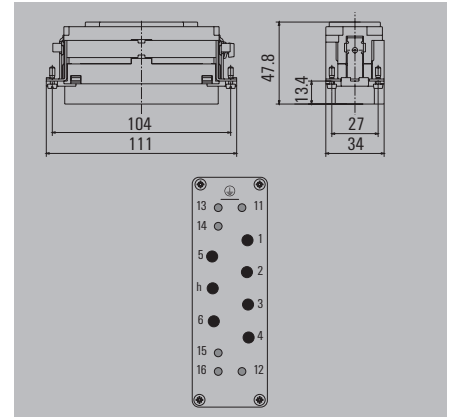
6 + 6 + ⊕



Male



Female



Ordering data

Type of connection	Type	Qty.	Order No.
Axial screw connection	HDC S6 6 SAS	1	1790030000

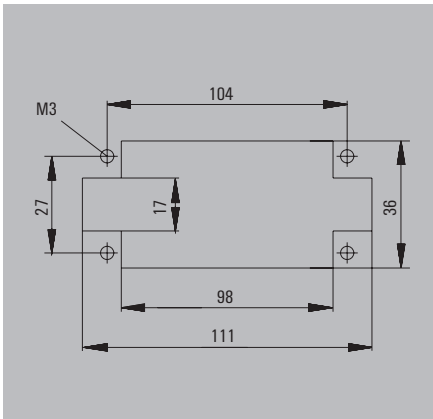
The signal contacts are designed for a rated voltage of 400V and a rated current of 16A.

Ordering data

Type of connection	Type	Qty.	Order No.
Axial screw connection	HDC S6 6 BAS	1	1790020000

The signal contacts are designed for a rated voltage of 400V and a rated current of 16A.

Installation cut-out



Housing selection RockStar® IP65
Size 8



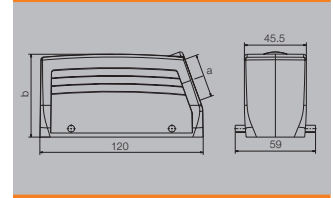
For additional housings, refer to
Chapter E for IP65 / Chapter F for IP68

Hood

Plug housing, cable entry sideways



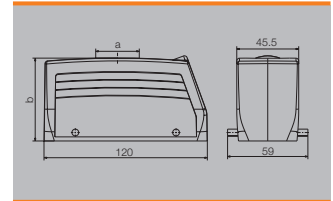
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 24B TSBU 1M25G	1787760000
M 25	w. threading		76	HDC 64D TSBU 1M25G	1786780000
M 32	w. threading		61	HDC 24B TSBU 1M32G	1787750000
M 32	w. threading		76	HDC 64D TSBU 1M32G	1786770000



Plug housing, cable entry at top



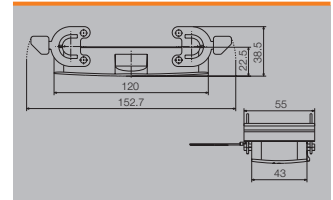
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 24B TOBU 1M25G	1787820000
M 32	w. threading		61	HDC 24B TOBU 1M32G	1787810000
M 32	w. threading		76	HDC 64D TOBU 1M32G	1786830000



Cover



Version	Type	Order No.
For hoods (upper parts of housings)	HDC 24B DMDQ 2QB	1665640000

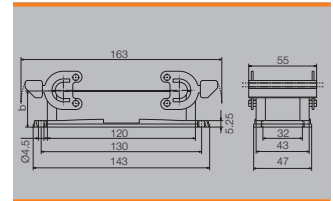


Base

Bulkhead housing



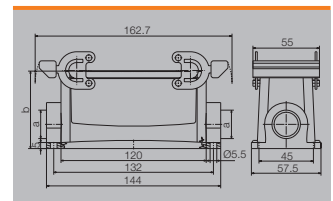
Version	Cover	b (mm)	Type	Order No.
		29.3	HDC 24B ABU	1212400000



Base housing



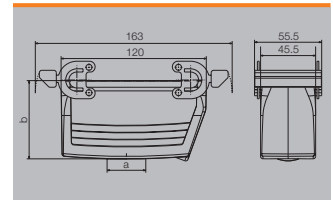
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		64	HDC 24B SBU 2M25G	1787870000
M 25	w. threading		84	HDC 64D SBU 2M25G	1786890000
M 32	w. threading		84	HDC 64D SBU 2M32G	1786880000



Coupling housing



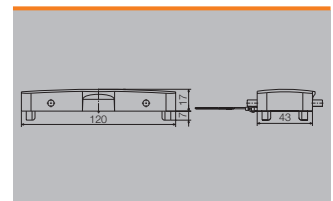
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		65	HDC 24B KBU 1M25G	1787920000
M 32	w. threading		79	HDC 64D KBU 1M32G	1786960000



Cover



Version	Type	Order No.
For bases (lower parts of housings)	HDC 24B DDDQ 4B0	1665630000

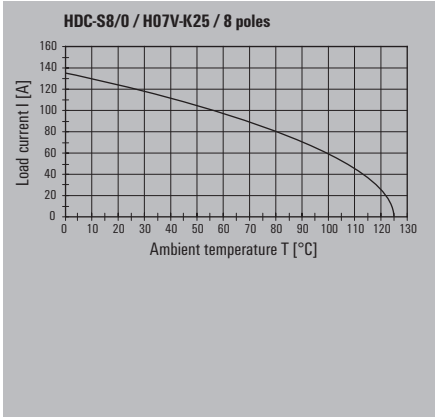


690 V, 110 A, size 8

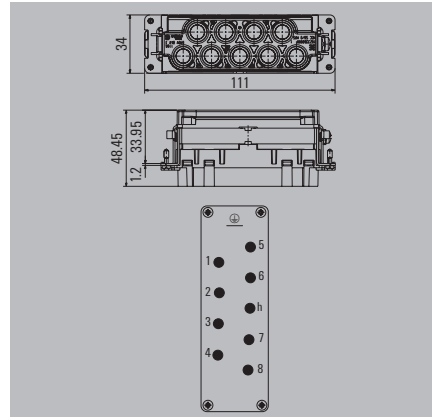
8 + 0 + ⊕

RockStar® inserts

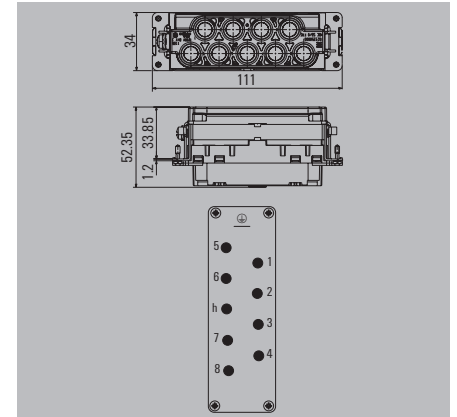
B



Male



Female



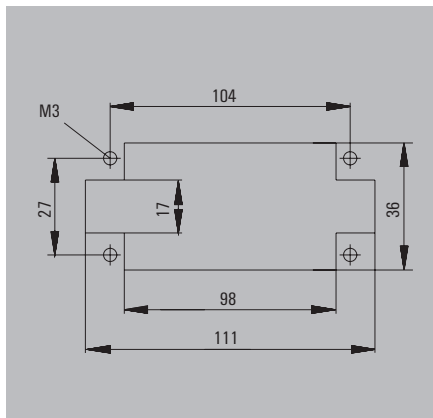
Ordering data

Type of connection	Type	Qty.	Order No.
Axial screw connection	HDC S8/0 MAS	1	1023360000

Ordering data

Type of connection	Type	Qty.	Order No.
Axial screw connection	HDC S8/0 FAS	1	1023350000

Installation cut-out



Housing selection RockStar® IP65
Size 8



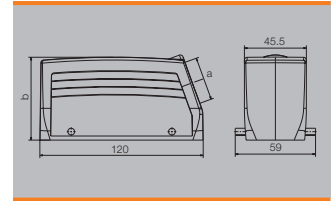
For additional housings, refer to
Chapter E for IP65 / Chapter F for IP68

Hood

Plug housing, cable entry sideways



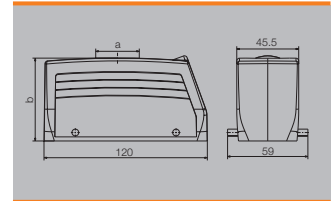
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 24B TSBU 1M25G	1787760000
M 25	w. threading		76	HDC 64D TSBU 1M25G	1786780000
M 32	w. threading		61	HDC 24B TSBU 1M32G	1787750000
M 32	w. threading		76	HDC 64D TSBU 1M32G	1786770000



Plug housing, cable entry at top



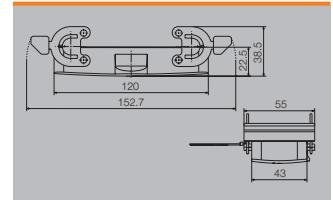
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 24B TOBU 1M25G	1787820000
M 32	w. threading		61	HDC 24B TOBU 1M32G	1787810000
M 32	w. threading		76	HDC 64D TOBU 1M32G	1786830000



Cover



Version	Type	Order No.
For hoods (upper parts of housings)	HDC 24B DMDQ 2QB	1665640000

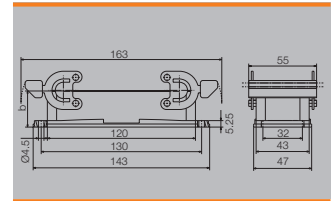


Base

Bulkhead housing



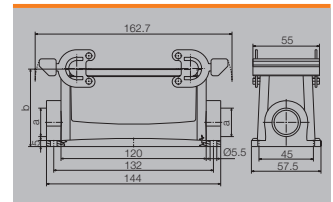
Version	Cover	b (mm)	Type	Order No.
		29.3	HDC 24B ABU	1212400000



Base housing



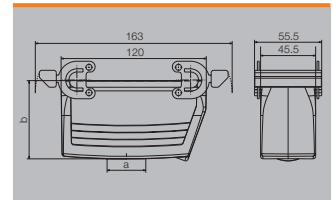
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		64	HDC 24B SBU 2M25G	1787870000
M 25	w. threading		84	HDC 64D SBU 2M25G	1786890000
M 32	w. threading		84	HDC 64D SBU 2M32G	1786880000



Coupling housing



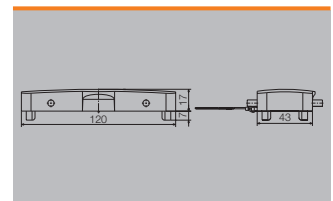
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		65	HDC 24B KBU 1M25G	1787920000
M 32	w. threading		79	HDC 64D KBU 1M32G	1786960000



Cover



Version	Type	Order No.
For bases (lower parts of housings)	HDC 24B DDDQ 4B0	1665630000



RockStar® ModuPlug modular system

RockStar® ModuPlug modular system	Introduction	C.2
	RockStar® ModuPlug base module	C.6
	RockStar® ModuPlug modules	C.8
	RockStar® ModuPlug data inserts	C.20

Make your connections fit for the future

With the advanced solutions from RockStar® ModuPlug

Industrial applications are becoming increasingly complex. The demands being made of the connectivity used are growing at the same time. Functionality in the smallest of installation spaces, safe installation and a fast retrofitting process are just some of the product properties being called for.

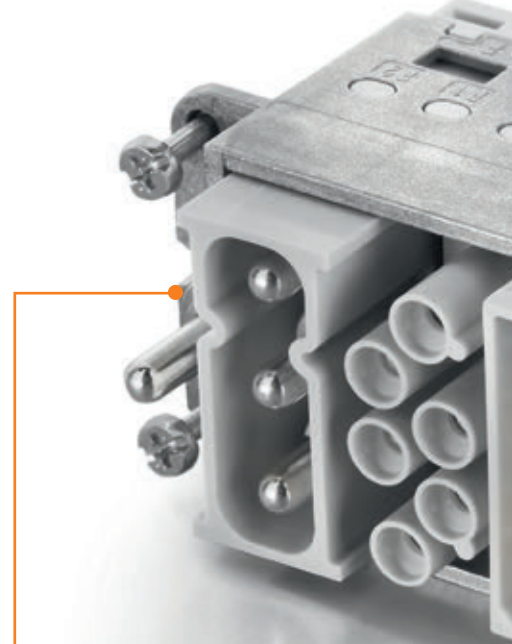
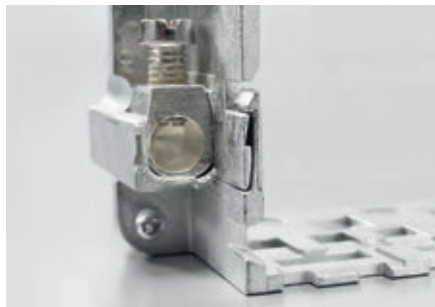
Not only does our RockStar® ModuPlug modular plug-in connector system meet current market requirements; it has been specially designed with the future in mind too.

Using the individual modules, you combine all the necessary functions for power, signal and data transmission in a single interface. Thanks to the new variety of module sizes, you can fit more applications than ever before in one plug-in connector. The modules reduce the amount of space required and cut costs when compared with fixed-pole inserts and other modular plug-in connector systems. The sophisticated frames and modules can be installed with extreme ease and integrated into HDC enclosures with the IP65 and IP68 protection classes. You can even use the RockStar® ModuPlug to supplement existing applications without any need to make system adjustments.

As an experienced Industrial Connectivity partner, Weidmüller offers ultra-modern connectivity with maximum reliability. So you can create customised solutions for future-proof connections with RockStar® too.

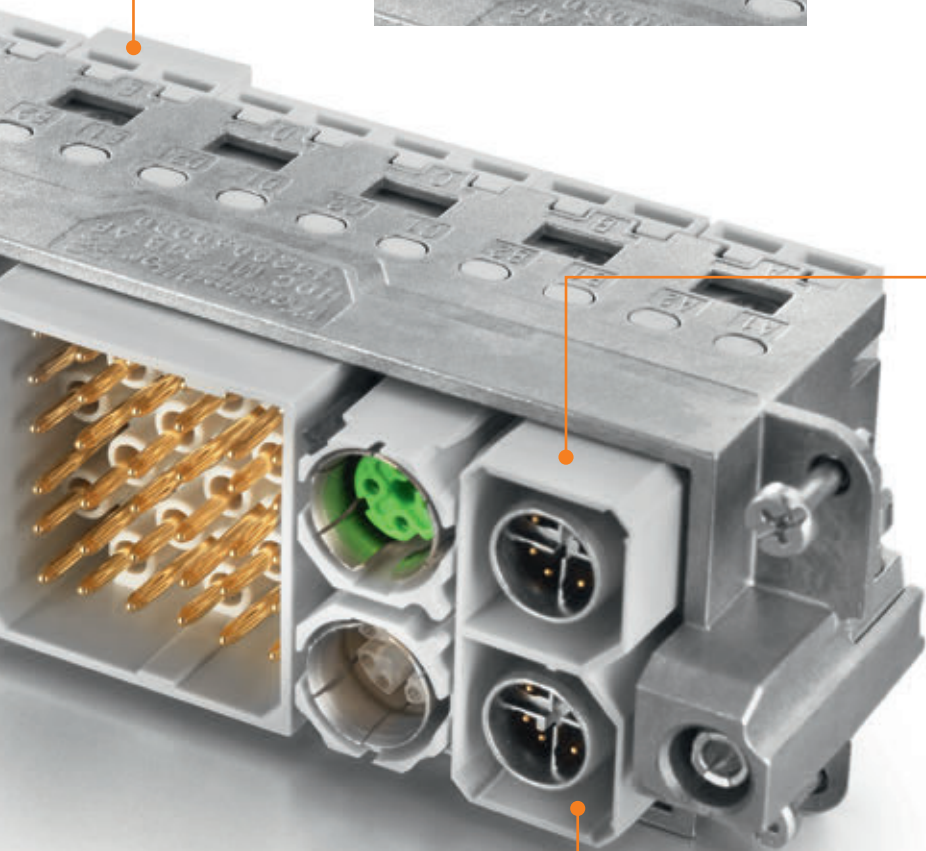
Simple

The innovative sliding frame has two defined locking positions for opening and closing – thus enabling simple, tool-free module installation.



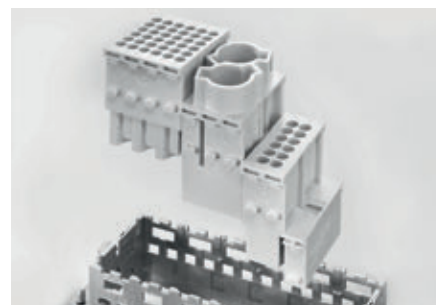
Secure

The round and rectangular coding on the frame enables intuitive module plug-in. The two-point fixation prevents incorrect connection and keeps the modules tilt and vibration-resistant.



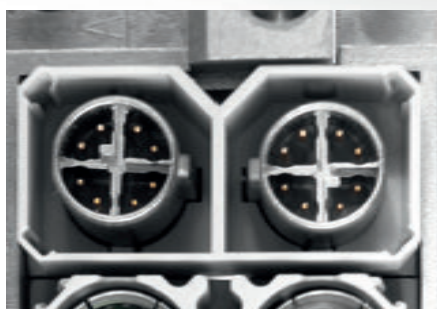
Flexible

The four module sizes make for individual plug solutions that save a huge amount of space. The smaller pitch translates into an optimised design too.



Compact

The new two-pole bus module is particularly compact and can accommodate megabit and gigabit data inserts. It enables the transmission of two Gigabit Cat 6A (10Gbit) cables in one module.



RockStar® ModuPlug modular system

Data inserts

	Size	Rated voltage	Rated current	No. of poles	Connection	Wire cross-section	Type	Order No. Male	Order No. Female	Page
	1.5	1,000 V	100 A	2	Crimp	10 – 35 mm ²	HDC MHP 100 2	1429060000	1429080000	C.8
	1	830 V	40 A	4	Crimp	1.5 – 6 mm ²	HDC MHX 4P	1428950000	1428970000	C.9
	1	690 V	40 A	3	Crimp	1.5 – 10 mm ²	HDC MHX 3	1429340000	1429350000	C.10
	1	830 V	16 A	6	Crimp	0.5 – 4 mm ²	HDC MHE 6P	1505650000	1505660000	C.11
	2	500 V	16 A	20	Crimp	0.5 – 4 mm ²	HDC MHE 20	1428910000	1428930000	C.12
	1	400 V	16 A	8	Crimp	0.5 – 4 mm ²	HDC MHE 8	1428880000	1428890000	C.13
	1	500 V	16 A	6	Crimp	0.5 – 4 mm ²	HDC MHE 6	1429360000	1429370000	C.14
	2	250 V	10 A	36	Crimp	0.14 – 2.5 mm ²	HDC MHD 36	1428860000	1428870000	C.15
	1	250 V	10 A	12	Crimp	0.14 – 2.5 mm ²	HDC MHD 12	1428840000	1428850000	C.16
	1	–	–	2	Busmodule	–	HDC MBUS 2	1428990000	1429020000	C.17
	0.5	–	–	–	Dummy module	–	HDC MDU	1429040000		C.18

RockStar® ModuPlug base module

Size 3

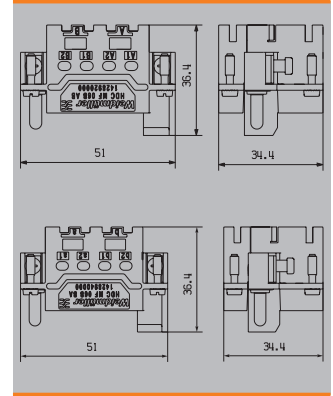
ModuPlug® metal frame

Frame



Deployment	Type	Order No.
	HDC MF 6B AB	1428920000
	HDC MF 6B BA	1428940000

Note 2 module slots; double-sided PE screw connection: 0.5 - 10 mm² (AWG 20 ... 8); prepared conductor in accordance with IEC 60999-1



Transport lock

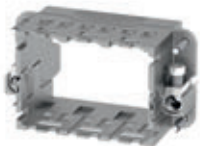
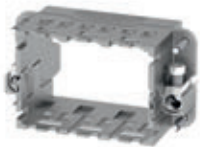


Transport lock for ModuPlug® metal frame		
HDC MF FIXING		1480290000

Size 4

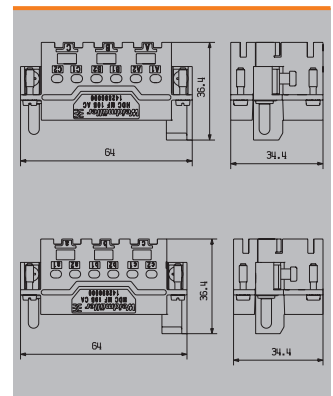
ModuPlug® metal frame

Frame



Deployment	Type	Order No.
	HDC MF 10B AC	1428960000
	HDC MF 10B CA	1428980000

Note 3 module slots; double-sided PE screw connection: 0.5 - 10 mm² (AWG 20 ... 8); prepared conductor in accordance with IEC 60999-1



Transport lock



Transport lock for ModuPlug® metal frame		
HDC MF FIXING		1480290000

Size 6

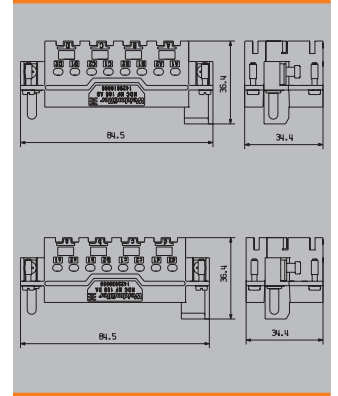
ModuPlug® metal frame

Frame



Deployment	Type	Order No.
	HDC MF 16B AD	1429010000
	HDC MF 16B DA	1429030000

Note 4 module slots; double-sided PE screw connection: 0.5 - 10 mm² (AWG 20 ... 8); prepared conductor in accordance with IEC 60999-1



Transport lock



Transport lock for ModuPlug® metal frame		
HDC MF FIXING		1480290000

Size 8

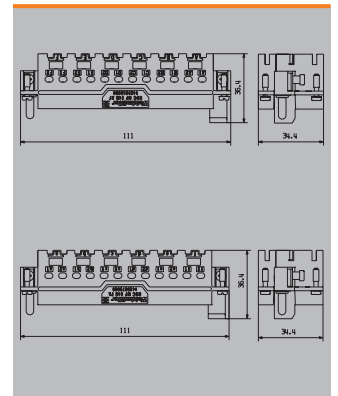
ModuPlug® metal frame

Frame



Deployment	Type	Order No.
	HDC MF 24B AF	1429050000
	HDC MF 24B FA	1429070000

Note 6 module slots; double-sided PE screw connection: 0.5 - 10 mm² (AWG 20 ... 8); prepared conductor in accordance with IEC 60999-1



Transport lock



Transport lock for ModuPlug® metal frame		
HDC MF FIXING		1480290000

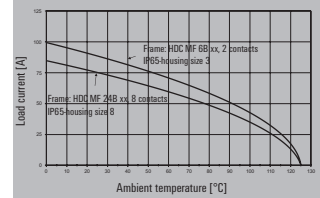
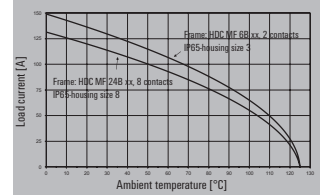
RockStar® ModuPlug modules

ModuPlug®
HDC MHP 100

Technical data

Contact inserts	
No. of poles	2
Rated current (DIN EN 61984)	100 A
Rated voltage (DIN EN 61984)	1000 V
Rated impulse voltage (DIN EN 61984)	8 kV
Pollution severity	3
Rated voltage according to UL/CSA	600 V
Insulation resistance	10 ¹² Ω
Surge voltage category	III
Limit temperature	-40 °C ... 125 °C
UL 94 flammability rating	V-0
Plugging cycles	≥ 500
Material	Polycarbonate, glass fibre reinforced
Required plug-in slots	1.5

Note

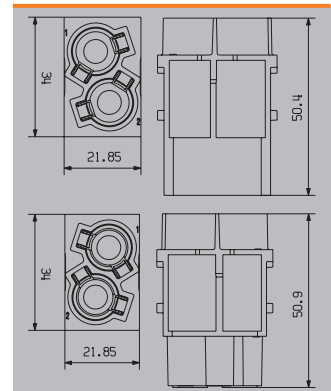
HDC-MHP100-modules in the IP65-housing,
Conductor H07V-K10:HDC-MHP100-modules in the IP65-housing,
Conductor H07V-K35:

Crimp connection



Deployment	Type	Order No.
Male	HDC MHP 100 MC	1429060000
Female	HDC MHP 100 FC	1429080000

Note



Accessories

Crimp contacts

Surface finish silver



Male			Female		
Qty.	Type	Order No.	Type	Order No.	Order No.
10	HDC MHP100 M 10	1435750000	HDC MHP100 F 10	1435790000	1435790000
10	HDC MHP100 M 16	1435760000	HDC MHP100 F 16	1435810000	1435810000
10	HDC MHP100 M 25	1435770000	HDC MHP100 F 25	1435820000	1435820000
10	HDC MHP100 M 35	1435780000	HDC MHP100 F 35	1435830000	1435830000

Tools



Crimping tool	
MTR 110	9018020000
Contact Removal Tool	
HDC MHP REMOVAL TOOL	1480380000
Note	Overview of the crimping inserts in chapter J

ModuPlug®
HDC MHX 4P

Technical data

Contact inserts	
No. of poles	4
Rated current (DIN EN 61984)	40 A
Rated voltage (DIN EN 61984)	830 V
Rated impulse voltage (DIN EN 61984)	8 kV
Pollution severity	3
Rated voltage according to UL/CSA	600 V
Insulation resistance	10 ¹² Ω
Surge voltage category	III
Limit temperature	-40 °C ... 125 °C
UL 94 flammability rating	V-0
Plugging cycles	≥ 500
Material	Polycarbonate, glass fibre reinforced
Required plug-in slots	1

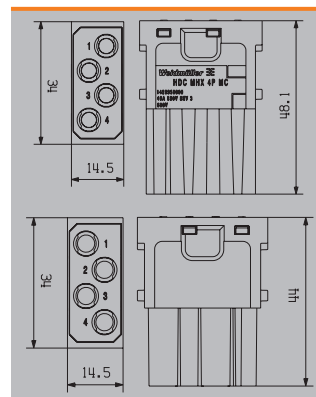
Note

Crimp connection



Deployment	Type	Order No.
Male	HDC MHX 4P MC	1428950000
Female	HDC MHX 4P FC	1428970000

Note



Accessories

Crimp contacts

Surface finish silver



Male			Female		
Qty.	Type	Order No.	Type	Order No.	Order No.
25	HDC C HX SM1.5AG	1002910000	HDC C HX BM1.5AG	1002950000	1002950000
25	HDC C HX SM2.5AG	1002920000	HDC C HX BM2.5AG	1002960000	1002960000
25	HDC C HX SM4.0AG	1002930000	HDC C HX BM4.0AG	1002970000	1002970000
25	HDC C HX SM6.0AG	1002940000	HDC C HX BM6.0AG	1002980000	1002980000

Tools



Crimping tool	
CTIN CM 1.6/2.5	9205430000
Contact Removal Tool	
Removal Tool HX	1002990000
Note	

RockStar® ModuPlug modules

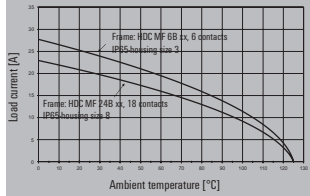
**ModuPlug®
HDC MHX 3**

Technical data

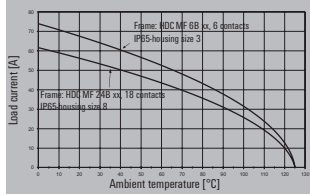
Contact inserts	
No. of poles	3
Rated current (DIN EN 61984)	40 A
Rated voltage (DIN EN 61984)	690 V
Rated impulse voltage (DIN EN 61984)	8 kV
Pollution severity	3
Rated voltage according to UL/CSA	600 V
Insulation resistance	10 ¹² Ω
Surge voltage category	III
Limit temperature	-40 °C ... 125 °C
UL 94 flammability rating	V-0
Plugging cycles	≥ 500
Material	Polycarbonate, glass fibre reinforced
Required plug-in slots	1

Note

**HDC-MHX 3-modules in the IP65-housing,
Conductor H07V-K1.5:**



**HDC-MHX 3-modules in the IP65-housing,
Conductor H07V-K10:**

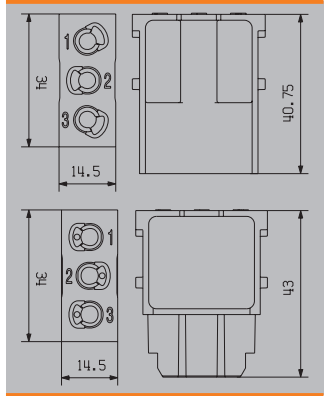


Crimp connection



Deployment	Type	Order No.
Male	HDC MHX 3 MC	1429340000
Female	HDC MHX 3 FC	1429350000

Note



Accessories

Crimp contacts

Surface finish silver



Male			Female		
Qty.	Type	Order No.	Type	Order No.	Order No.
25	HDC C HX SM1.5AG	1002910000	HDC C HX BM1.5AG	1002950000	1002950000
25	HDC C HX SM2.5AG	1002920000	HDC C HX BM2.5AG	1002960000	1002960000
25	HDC C HX SM4.0AG	1002930000	HDC C HX BM4.0AG	1002970000	1002970000
25	HDC C HX SM6.0AG	1002940000	HDC C HX BM6.0AG	1002980000	1002980000
25	HDC C MHX SM10.0AG	2494550000	HDC C MHX BM10.0AG	2494560000	2494560000

Tools



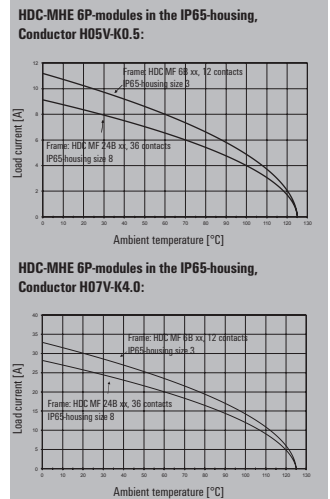
Crimping tool	
CTIN CM 3.6	9205440000
Contact Removal Tool	
Removal Tool HX	1002990000
Note	

ModuPlug®
HDC MHE 6P

Technical data

Contact inserts	
No. of poles	6
Rated current (DIN EN 61984)	16 A
Rated voltage (DIN EN 61984)	830 V
Rated impulse voltage (DIN EN 61984)	8 kV
Pollution severity	3
Rated voltage according to UL/CSA	600 V
Insulation resistance	10 ¹² Ω
Surge voltage category	III
Limit temperature	-40 °C ... 125 °C
UL 94 flammability rating	V-0
Plugging cycles	≥ 500
Material	Polycarbonate, glass fibre reinforced
Required plug-in slots	1

Note

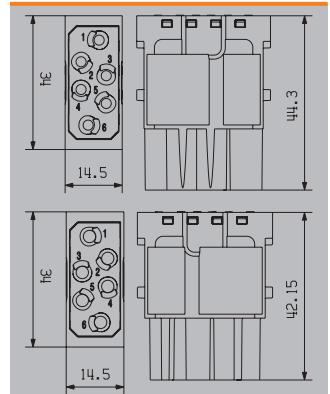


Crimp connection



Deployment	Type	Order No.
Male	HDC MHE 6P MC	1505650000
Female	HDC MHE 6P FC	1505660000

Note



Accessories

Crimp contacts

Surface finish gold



Surface finish silver



Male			Female		
Qty.	Type	Order No.	Type	Order No.	
100	HDC-C-HE-SM0.5AU	1651420000	HDC-C-HE-BM0.5AU	1651470000	
100	HDC-C-HE-SM0.75-1.00AU	1651430000	HDC-C-HE-BM0.75-1.00AU	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	
100	HDC-C-HE-SM4.65AU	1116540000	HDC-C-HE-BM4.65AU	1116530000	
100	HDC-C-HE-SM0.5AG	1200500000	HDC-C-HE-BM0.5AG	1201100000	
100	HDC-C-HE-SM0.75-1.00AG	1200600000	HDC-C-HE-BM0.75-1.00AG	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	

Conductor cross-section	Insulation 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	
CTX CM 1.6/2.5	9018490000
CTIN CM 1.6/2.5	9205430000
Contact Removal Tool	
Removal Tool HE	1866750000
Note	

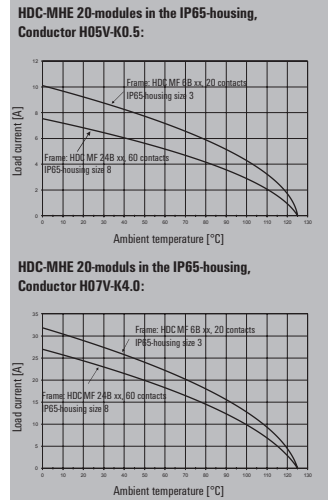
RockStar® ModuPlug modules

**ModuPlug®
HDC MHE 20**

Technical data

Contact inserts	
No. of poles	20
Rated current (DIN EN 61984)	16 A
Rated voltage (DIN EN 61984)	500 V
Rated impulse voltage (DIN EN 61984)	6 kV
Pollution severity	3
Rated voltage according to UL/CSA	600 V
Insulation resistance	10 ¹² Ω
Surge voltage category	III
Limit temperature	-40 °C ... 125 °C
UL 94 flammability rating	V-0
Plugging cycles	≥ 500
Material	Polycarbonate, glass fibre reinforced
Required plug-in slots	2

Note

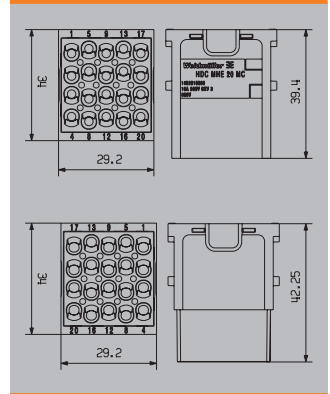


Crimp connection



Deployment	Type	Order No.
Male	HDC MHE 20 MC	1428910000
Female	HDC MHE 20 FC	1428930000

Note



Accessories

Crimp contacts

Surface finish gold



Surface finish silver



Male			Female		
Qty.	Type	Order No.	Type	Order No.	Order No.
100	HDC-C-HE-SM0.5AU	1651420000	HDC-C-HE-BM0.5AU	1651470000	
100	HDC-C-HE-SM0.75-1.00AU	1651430000	HDC-C-HE-BM0.75-1.00AU	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	
100	HDC-C-HE-SM4.65AU	1116540000	HDC-C-HE-BM4.65AU	1116530000	
100	HDC-C-HE-SM0.5AG	1200500000	HDC-C-HE-BM0.5AG	1201100000	
100	HDC-C-HE-SM0.75-1.00AG	1200600000	HDC-C-HE-BM0.75-1.00AG	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	

Conductor cross-section	Insulation 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	
CTX CM 1.6/2.5	9018490000
CTIN CM 1.6/2.5	9205430000
Contact Removal Tool	
Removal Tool HE	1866750000
Note	

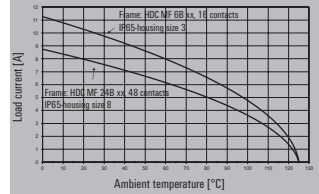
ModuPlug®
HDC MHE 8

Technical data

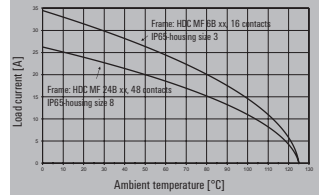
Contact inserts	
No. of poles	8
Rated current (DIN EN 61984)	16 A
Rated voltage (DIN EN 61984)	400 V
Rated impulse voltage (DIN EN 61984)	6 kV
Pollution severity	3
Rated voltage according to UL/CSA	600 V
Insulation resistance	10 ¹² Ω
Surge voltage category	III
Limit temperature	-40 °C ... 125 °C
UL 94 flammability rating	V-0
Plugging cycles	≥ 500
Material	Polycarbonate, glass fibre reinforced
Required plug-in slots	1

Note

**HDC-MHE 8-modules in the IP65-housing,
Conductor H05V-K0.5:**



**HDC-MHE 8-modules in the IP65-housing,
Conductor H07V-K4.0:**

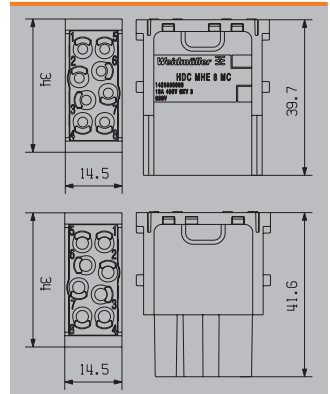


Crimp connection



Deployment	Type	Order No.
Male	HDC MHE 8 MC	1428880000
Female	HDC MHE 8 FC	1428890000

Note



Accessories

Crimp contacts

Surface finish gold



Surface finish silver



Male			Female		
Qty.	Type	Order No.	Type	Order No.	Order No.
100	HDC-C-HE-SM0.5AU	1651420000	HDC-C-HE-BM0.5AU	1651470000	1651470000
100	HDC-C-HE-SM0.75-1.00AU	1651430000	HDC-C-HE-BM0.75-1.00AU	1651480000	1651480000
100	HDC-C-HE-SM1.5AU	1651440000	HDC-C-HE-BM1.5AU	1651490000	1651490000
100	HDC-C-HE-SM2.5AU	1651450000	HDC-C-HE-BM2.5AU	1651500000	1651500000
100	HDC-C-HE-SM4.0AU	1651460000	HDC-C-HE-BM4.0AU	1651510000	1651510000
100	HDC-C-HE-SM4.65AU	1116540000	HDC-C-HE-BM4.65AU	1116530000	1116530000
100	HDC-C-HE-SM0.5AG	1200500000	HDC-C-HE-BM0.5AG	1201100000	1201100000
100	HDC-C-HE-SM0.75-1.00AG	1200600000	HDC-C-HE-BM0.75-1.00AG	1201200000	1201200000
100	HDC-C-HE-SM1.5AG	1200700000	HDC-C-HE-BM1.5AG	1201300000	1201300000
100	HDC-C-HE-SM2.5AG	1200800000	HDC-C-HE-BM2.5AG	1201400000	1201400000
100	HDC-C-HE-SM4.0AG	1200900000	HDC-C-HE-BM4.0AG	1201500000	1201500000

Conductor cross-section	Insulation 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	
CTX CM 1.6/2.5	9018490000
CTIN CM 1.6/2.5	9205430000
Contact Removal Tool	
Removal Tool HE	1866750000
Note	

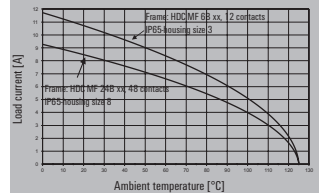
ModuPlug®
HDC MHE 6

Technical data

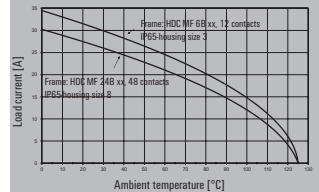
Contact inserts	
No. of poles	6
Rated current (DIN EN 61984)	16 A
Rated voltage (DIN EN 61984)	500 V
Rated impulse voltage (DIN EN 61984)	6 kV
Pollution severity	3
Rated voltage according to UL/CSA	600 V
Insulation resistance	10 ¹² Ω
Surge voltage category	III
Limit temperature	-40 °C ... 125 °C
UL 94 flammability rating	V-0
Plugging cycles	≥ 500
Material	Polycarbonate, glass fibre reinforced
Required plug-in slots	1

Note

**HDC-MHE 6-modules in the IP65-housing,
Conductor H05V-K0.5:**



**HDC-MHE 6-modules in the IP65-housing,
Conductor H07V-K4.0:**

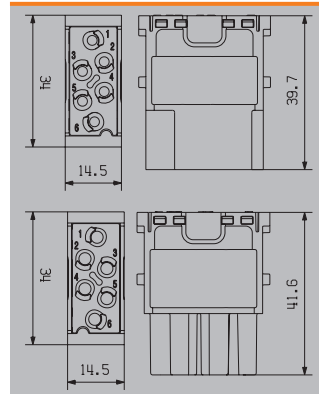


Crimp connection



Deployment	Type	Order No.
Male	HDC MHE 6 MC	1429360000
Female	HDC MHE 6 FC	1429370000

Note



Accessories

Crimp contacts

Surface finish gold



Surface finish silver



Male			Female		
Qty.	Type	Order No.	Type	Order No.	Order No.
100	HDC-C-HE-SM0.5AU	1651420000	HDC-C-HE-BM0.5AU	1651470000	1651470000
100	HDC-C-HE-SM0.75-1.00AU	1651430000	HDC-C-HE-BM0.75-1.00AU	1651480000	1651480000
100	HDC-C-HE-SM1.5AU	1651440000	HDC-C-HE-BM1.5AU	1651490000	1651490000
100	HDC-C-HE-SM2.5AU	1651450000	HDC-C-HE-BM2.5AU	1651500000	1651500000
100	HDC-C-HE-SM4.0AU	1651460000	HDC-C-HE-BM4.0AU	1651510000	1651510000
100	HDC-C-HE-SM4.65AU	1116540000	HDC-C-HE-BM4.65AU	1116530000	1116530000
100	HDC-C-HE-SM0.5AG	1200500000	HDC-C-HE-BM0.5AG	1201100000	1201100000
100	HDC-C-HE-SM0.75-1.00AG	1200600000	HDC-C-HE-BM0.75-1.00AG	1201200000	1201200000
100	HDC-C-HE-SM1.5AG	1200700000	HDC-C-HE-BM1.5AG	1201300000	1201300000
100	HDC-C-HE-SM2.5AG	1200800000	HDC-C-HE-BM2.5AG	1201400000	1201400000
100	HDC-C-HE-SM4.0AG	1200900000	HDC-C-HE-BM4.0AG	1201500000	1201500000

Conductor cross-section	Insulation 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	
CTX CM 1.6/2.5	9018490000
CTIN CM 1.6/2.5	9205430000
Contact Removal Tool	
Removal Tool HE	1866750000
Note	

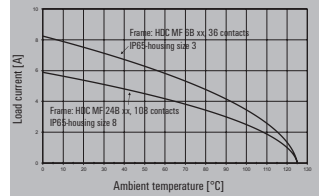
ModuPlug®
HDC MHD 36

Technical data

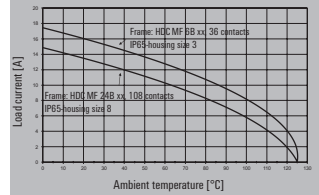
Contact inserts	
No. of poles	36
Rated current (DIN EN 61984)	10 A
Rated voltage (DIN EN 61984)	250 V
Rated impulse voltage (DIN EN 61984)	4 kV
Pollution severity	3
Rated voltage according to UL/CSA	600 V
Insulation resistance	10 ¹² Ω
Surge voltage category	III
Limit temperature	-40 °C ... 125 °C
UL 94 flammability rating	V-0
Plugging cycles	≥ 500
Material	Polycarbonate, glass fibre reinforced
Required plug-in slots	2

Note

HDC-MHD 36-modules in the IP65-housing,
Conductor H05V-K0.5:



HDC-MHD 36-modules in the IP65-housing,
Conductor H07V-K2.5:



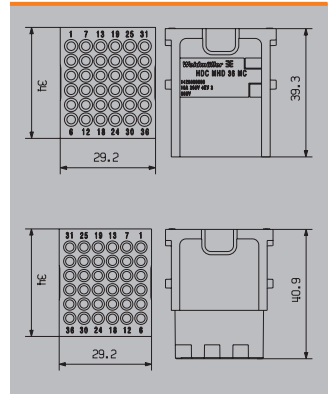
Modules

Crimp connection



Deployment	Type	Order No.
Male	HDC MHD 36 MC	1428860000
Female	HDC MHD 36 FC	1428870000

Note



Accessories

Crimp contacts

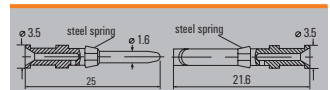
Surface finish gold



Surface finish silver



Male			Female		
Qty.	Type	Order No.	Type	Order No.	Order No.
100	HDC-C-HD-SM0.14-0.37AU	1651620000	HDC-C-HD-BM0.14-0.37AU	1651670000	
100	HDC-C-HD-SM0.5AU	1651630000	HDC-C-HD-BM0.5AU	1651680000	
100	HDC-C-HD-SM0.75-1.00AU	1651640000	HDC-C-HD-BM0.75-1.00AU	1651690000	
100	HDC-C-HD-SM1.5AU	1651650000	HDC-C-HD-BM1.5AU	1651700000	
100	HDC-C-HD-SM2.5AU	1651660000	HDC-C-HD-BM2.5AU	1651710000	
100	HDC-C-HD-SM0.14-0.37AG	1651520000	HDC-C-HD-BM0.14-0.37AG	1651570000	
100	HDC-C-HD-SM0.5AG	1651530000	HDC-C-HD-BM0.5AG	1651580000	
100	HDC-C-HD-SM0.75-1.00AG	1601750000	HDC-C-HD-BM0.75-1.00AG	1601760000	
100	HDC-C-HD-SM1.5AG	1651550000	HDC-C-HD-BM1.5AG	1651600000	
100	HDC-C-HD-SM2.5AG	1651560000	HDC-C-HD-BM2.5AG	1651610000	



Conductor cross-section	Insulation 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 6 mm

Tools



Crimping tool	
CTX CM 1.6/2.5	9018490000
CTIN CM 1.6/2.5	9205430000
Contact Removal Tool	
REMOVAL TOOL HD	1866730000
Note	

RockStar® ModuPlug modules

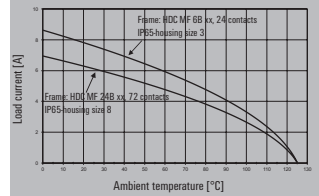
**ModuPlug®
HDC MHD 12**

Technical data

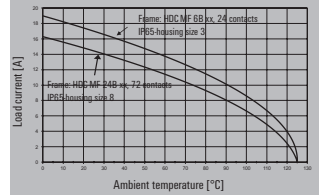
Contact inserts	
No. of poles	12
Rated current (DIN EN 61984)	10 A
Rated voltage (DIN EN 61984)	250 V
Rated impulse voltage (DIN EN 61984)	4 kV
Pollution severity	3
Rated voltage according to UL/CSA	600 V
Insulation resistance	10 ¹² Ω
Surge voltage category	III
Limit temperature	-40 °C ... 125 °C
UL 94 flammability rating	V-0
Plugging cycles	≥ 500
Material	Polycarbonate, glass fibre reinforced
Required plug-in slots	1

Note

**HDC-MHD 12-modules in the IP65-housing,
Conductor H05V-K0.5:**



**HDC-MHD 12-modules in the IP65-housing,
Conductor H07V-K2.5:**

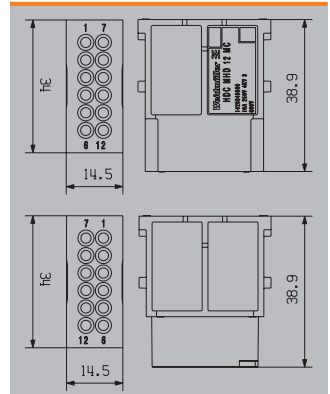


Crimp connection



Deployment	Type	Order No.
Male	HDC MHD 12 MC	1428840000
Female	HDC MHD 12 FC	1428850000

Note



Accessories

Crimp contacts

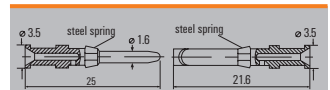
Surface finish gold



Surface finish silver



Male			Female		
Qty.	Type	Order No.	Type	Order No.	Order No.
100	HDC-C-HD-SM0.14-0.37AU	1651620000	HDC-C-HD-BM0.14-0.37AU	1651670000	1651670000
100	HDC-C-HD-SM0.5AU	1651630000	HDC-C-HD-BM0.5AU	1651680000	1651680000
100	HDC-C-HD-SM0.75-1.00AU	1651640000	HDC-C-HD-BM0.75-1.00AU	1651690000	1651690000
100	HDC-C-HD-SM1.5AU	1651650000	HDC-C-HD-BM1.5AU	1651700000	1651700000
100	HDC-C-HD-SM2.5AU	1651660000	HDC-C-HD-BM2.5AU	1651710000	1651710000
100	HDC-C-HD-SM0.14-0.37AG	1651520000	HDC-C-HD-BM0.14-0.37AG	1651570000	1651570000
100	HDC-C-HD-SM0.5AG	1651530000	HDC-C-HD-BM0.5AG	1651580000	1651580000
100	HDC-C-HD-SM0.75-1.00AG	1601750000	HDC-C-HD-BM0.75-1.00AG	1601760000	1601760000
100	HDC-C-HD-SM1.5AG	1651550000	HDC-C-HD-BM1.5AG	1651600000	1651600000
100	HDC-C-HD-SM2.5AG	1651560000	HDC-C-HD-BM2.5AG	1651610000	1651610000



Conductor cross-section	Insulation 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 6 mm

Tools



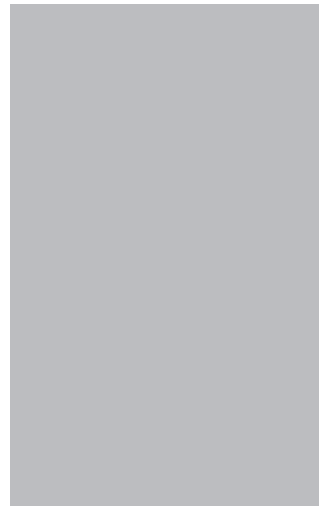
Crimping tool	
CTX CM 1.6/2.5	9018490000
CTIN CM 1.6/2.5	9205430000
Contact Removal Tool	
REMOVAL TOOL HD	1866730000
Note	

**ModuPlug®
HDC MBUS 2**

Technical data

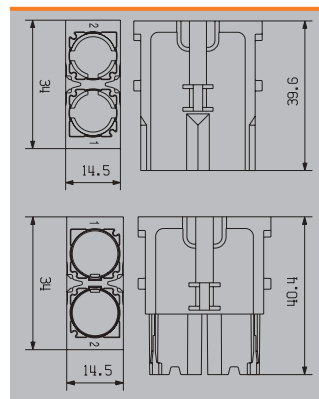
Contact inserts	
No. of poles	
Rated current (DIN EN 61984)	
Rated voltage (DIN EN 61984)	
Rated impulse voltage (DIN EN 61984)	
Pollution severity	3
Rated voltage according to UL/CSA	
Insulation resistance	10 ¹² Ω
Surge voltage category	III
Limit temperature	-40 °C ... 125 °C
UL 94 flammability rating	V-0
Plugging cycles	≥ 500
Material	Polycarbonate, glass fibre reinforced
Required plug-in slots	1

Note



Deployment	Type	Order No.
Male	HDC MBUS 2 MC	1428990000
Female	HDC MBUS 2 FC	1429020000

Note



Fixing clip



Fixing clip	
HDC MBUS 2 MCLIP	1989290000
HDC MBUS 2 PCLIP	1989300000

Note MCLIP = metal version; PCLIP = plastic version

RockStar® ModuPlug modules

ModuPlug®
HDC MDU

Technical data

Contact inserts

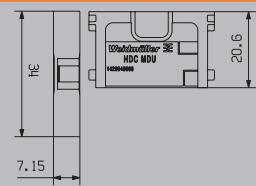
No. of poles	
Rated current (DIN EN 61984)	
Rated voltage (DIN EN 61984)	
Rated impulse voltage (DIN EN 61984)	
Pollution severity	3
Rated voltage according to UL/CSA	
Insulation resistance	10 ¹² Ω
Surge voltage category	
Limit temperature	-40 °C ... 125 °C
UL 94 flammability rating	V-0
Plugging cycles	≥ 500
Material	Polycarbonate, glass fibre reinforced
Required plug-in slots	0.5

Note



Deployment	Type	Order No.
	HDC MDU	1429040000

Note



RockStar® ModuPlug data inserts

Cat. 5e

Technical data

No. of poles	4
Transmission rate	100 Mbit/s
Category	Cat. 5e
Coding	D
Rated current	4 A
Rated voltage	250 V
Pollution severity	2
Insulation resistance	≥ 10 ⁹ Ω
Limit temperature	-30 °C ... 90 °C
Plugging cycles	≥ 100
Contact surface	Au (Gold)

Note

Round plug-in connector in accordance with IEC 61076-2-101



Module side version	Cable length	Opposite side version	Type	Order No.
Female	1 m	open	HDC XX5E01 FOXXXXX-0100	2003920100
Male	1 m	open	HDC XX5E01 MOXXXXX-0100	2003890100
Male	0.5 m	Female, straight	HDC XX5E01 MFSXXX-0050	2453550050
Male	1 m	Female, straight	HDC XX5E01 MFSXXX-0100	2453550100
Male	1.5 m	Female, straight	HDC XX5E01 MFSXXX-0150	2453550150
Male	3 m	Female, straight	HDC XX5E01 MFSXXX-0300	2453550300
Male	5 m	Female, straight	HDC XX5E01 MFSXXX-0500	2453550500
Female	1 m	Male, straight, M12D	HDC XX5E01 FMSM12D-0100	2451120100
Male	1 m	Male, straight, M12D	HDC XX5E01 MMSM12D-0100	2451110100
Male	1 m	Male, straight, RJ45	HDC XX5E01 MMSRJ45-0100	2450490100
Female	1 m	Male, straight, RJ45	HDC XX5E01 FMSRJ45-0100	2451080100

Note

Other versions and cable lengths on request

Cat. 6A

Technical data

No. of poles	8
Transmission rate	10 GBit/s
Category	Cat. 6A
Coding	X
Rated current	0.5 A
Rated voltage	50 V
Pollution severity	2
Insulation resistance	≥ 10 ⁹ Ω
Limit temperature	-30 °C ... 90 °C
Plugging cycles	≥ 100
Contact surface	Au (Gold)

Note

Round plug-in connector in accordance with IEC 61076-2-109



Module side version	Cable length	Opposite side version	Type	Order No.
Female	1 m	open	HDC XX6A01 FOXXXXX-0100	2003850100
Male	1 m	open	HDC XX6A01 MOXXXXX-0100	2003820100
Male	0.5 m	Female, straight	HDC XX6A01 MFSXXXX-0050	2453540050
Male	1 m	Female, straight	HDC XX6A01 MFSXXXX-0100	2453540100
Male	1.5 m	Female, straight	HDC XX6A01 MFSXXXX-0150	2453540150
Male	3 m	Female, straight	HDC XX6A01 MFSXXXX-0300	2453540300
Male	5 m	Female, straight	HDC XX6A01 MFSXXXX-0500	2453540500
Male	1 m	Male, straight, M12X	HDC XX6A01 MMSM12X-0100	2451130100
Female	1 m	Male, straight, M12X	HDC XX6A01 FMSM12X-0100	2451140100
Male	1 m	Male, straight, RJ45	HDC XX6A01 MMSRJ45-0100	2451090100
Female	1 m	Male, straight, RJ45	HDC XX6A01 FMSRJ45-0100	2451100100

Note

Other versions and cable lengths on request

RockStar® HighPower

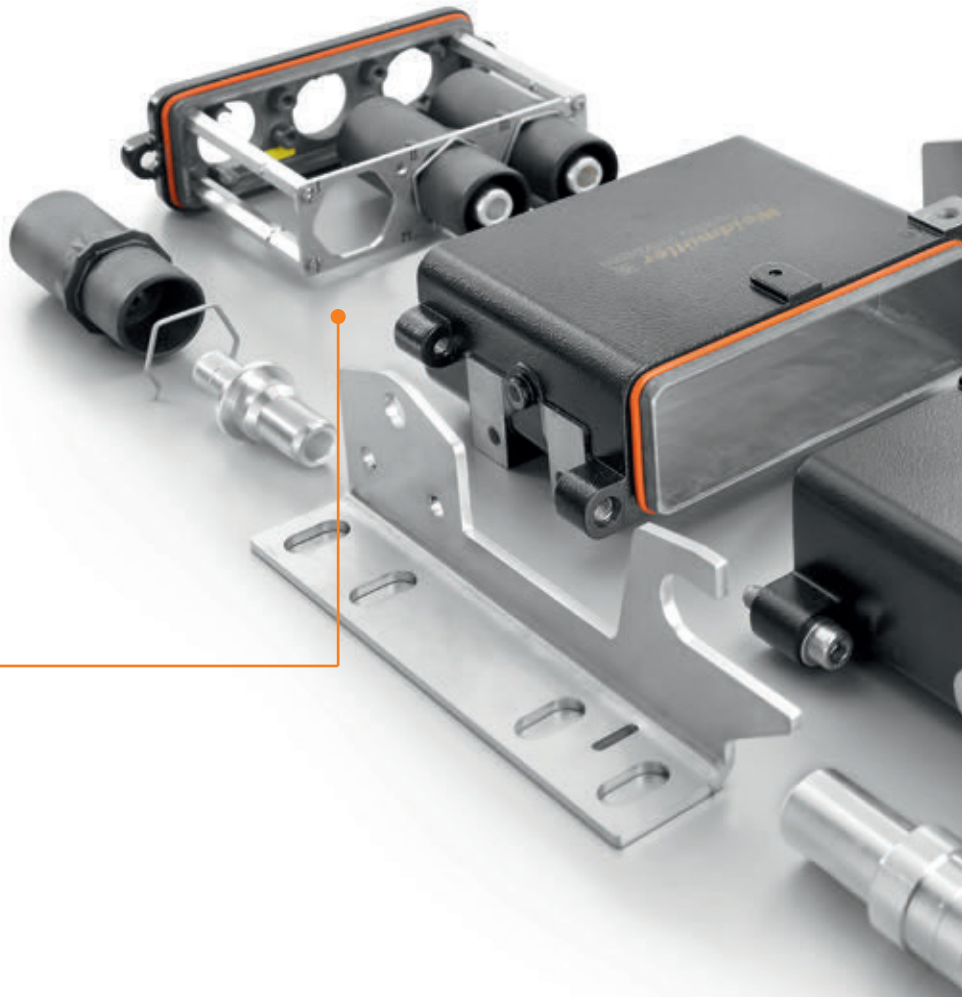
RockStar® HighPower	Introduction	D.2
	RockStar® HighPower 250 A	D.4
	4,000 V	
	250 A	
	1 - 4 poles	
	RockStar® HighPower 550 A	D.10
	4,000 V	
	550 A	
	1 - 3 poles	

RockStar® HighPower

Uncompromising power – in clever and safe packaging. The RockStar® HighPower modular high-current connector system has been custom designed for the high demands of traffic engineering applications. The system also meets the requirements of the wind power industry. The modular set-up consists of one-piece crimp contacts, insulating sleeves, insert-holder frames and a robust multi-part die-cast aluminium enclosure in IP68, as well as cross-connection options.

This modular design offers clear advantages for handling: It is possible to wire crimped lines with large cross-sections and to see this process through to the final step. The wiring can be achieved using standard cable glands.

D

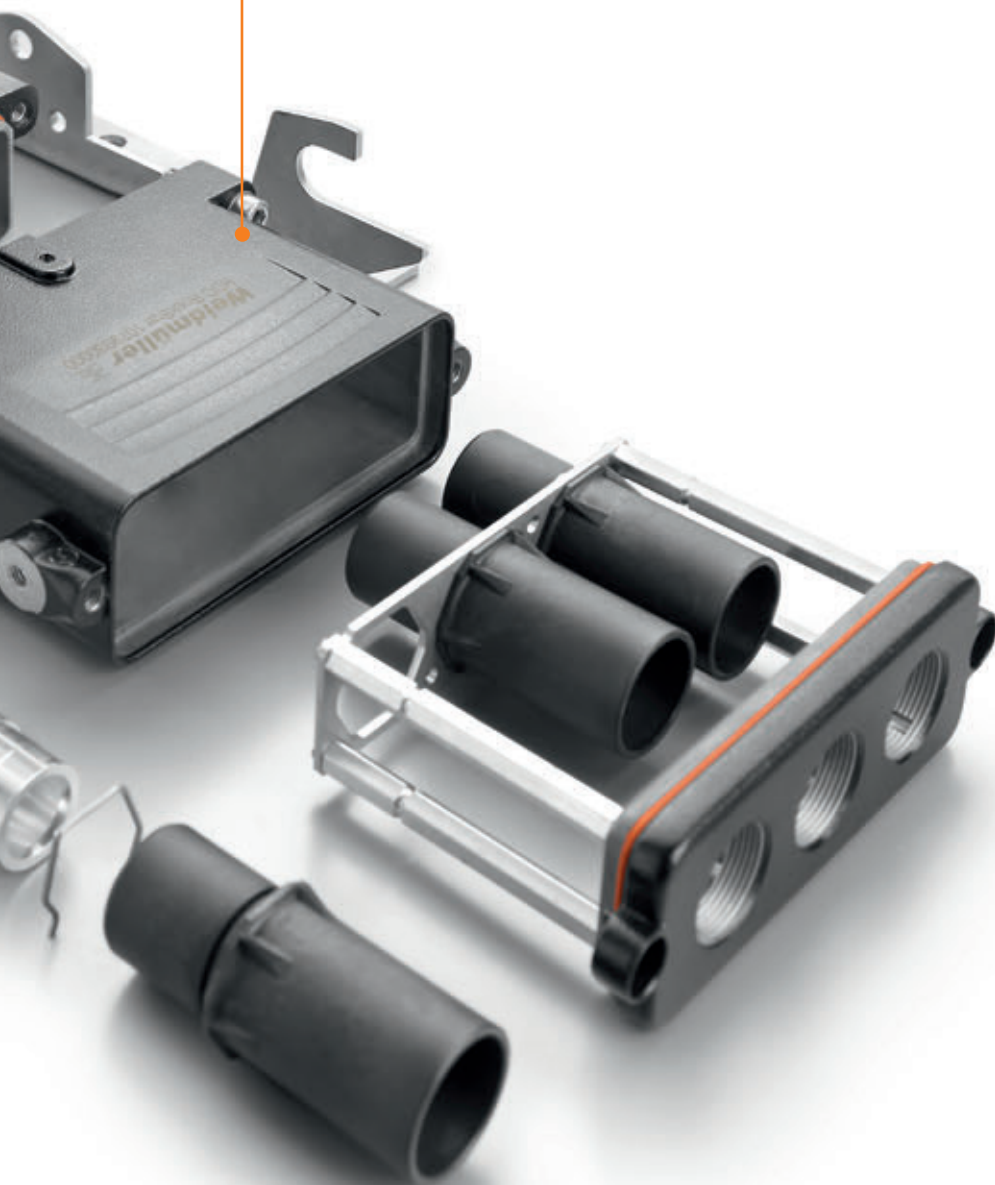
**Safe**

Tried-and-tested, low-maintenance crimp-connection technology with stranded, finely stranded and very finely stranded flexible copper conductors measuring up to 240 mm² with standardised tools



Practical and universal

A multitude of potential applications have been made pluggable for the first time ever – simply by integrating cross-connections.

**Perfectly optimised shielding**

Along with the 360° contact, the shielding connection integrated in the enclosure is the cutting edge of what is technically feasible at present.



HighPower 250 A


RockStar® HighPower is designed to meet the strict standards set by DIN EN 61373 Cat. 2 (pivot mounting). The coordinated connector components provide you with a fail-safe and maintenance-free power transmission solution: in this case up to 250 A / 4,000 V.



Technical data

HighPower 250 A series	
Standards	DIN EN 50124-1 In compliance with DIN EN 61984 DIN EN 50155 DIN EN 61373 KAT 2 (Pivot mounting)
Number of contacts	1-, 2-, 3-, 4 poles
Wire connection method	Crimp
Rated current	250 A
Rated insulation voltage (highest permitted operating voltage)	
AC wire - wire	4,000 V (4,800 V)*
AC wire - earthed housing	2,300 V (3,000 V)*
DC wire - wire	4,000 V (4,800 V)*
DC wire - earthed housing	2,300 V (3,000 V)*
Rated impulse voltage	
Wire - wire	25 kV
Wire - earthed housing	15 kV
Surge voltage category	OV 3
Pollution severity degree	PD 2 (PD 3) ¹
Material	
Insulating body	PA 66 glass-fibre reinforced
Contact	Copper alloy, silver plated
Flammability	
According to UL 94	V-0
According to NFF 16-101 / NFF 16-102	I3 F2
DIN 5510 Part 2	V-0
Insulation resistance	10 ¹⁰ Ω
Temperature range	-50 °C to +120 °C
HDC IP68 HP 248 series	
Protection degree according to DIN EN 60529	IP68 when interlocked
Colour	RAL 9005 (black)
Surface finish	Powder coating
Locking element	
Screw interlock	M8
Material	Stainless steel, rust-proof
Torque	11 Nm
Housing seal	Silicone rubber
Temperature range	-50 °C to +120 °C
Material	
Housing	Die-cast aluminium alloy, corrosion resistant
Mounting bracket	Stainless steel, rust-proof
Accessories	
Material	
Assembly frame	Stainless steel, rust-proof
Shield clamp	Sheet steel, galvanized
Touch-safe protection	PA66
Colour	
Assembly frame	Natural
Shield clamp	Natural
Touch-safe protection	Red
Cable gland	
Material	
Cable gland	Optional as nickel-plated brass or stainless steel
Seal insert	TPE
Temperature range	-40 °C to +130 °C
Class of protection	IP68
Note:	
*4,800 V, depending on the application	
¹ The contacts are protected against contamination and condensation within the HDC housing.	
The completely assembled connector can be used at pollution degree PD 3.	

Overview

	Size	Rated voltage	Rated current	No. of poles	Tension clamp connection	TOP connection	Screw conn. with wire guard spring	Crimp connection	PUSH IN connection	Page
	8	4,000 V	250 A	1 - 4				•		D.6

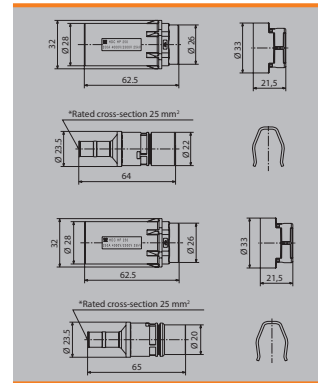
Crimp contacts

Crimp contact



Conductor cross-section	Male Type	Order No.	Female Type	Order No.
25 mm ²	HDC HP 250 M 25	1079690000	HDC HP 250 F 25	1079720000
35 mm ²	HDC HP 250 M 35	1079680000	HDC HP 250 F 35	1079730000
50 mm ²	HDC HP 250 M 50	1119080000	HDC HP 250 F 50	1079740000
70 mm ²	HDC HP 250 M 70	1119090000	HDC HP 250 F 70	1079750000
95 mm ²	HDC HP 250 M 95	1119100000	HDC HP 250 F 95	1079770000
Insulated PE contact				
50 mm ²	HDC HP 250 M 50 PE	1220850000	HDC HP 250 F 50 PE	1220840000

Note In the version described here, the crimp contacts can be used for crimp connections with flexible, stranded, and finely stranded copper wires (according to DIN 48201 part 1 and DIN 57 295 VDE 0295) or with crimping inserts (according to DIN 48083 part 1, part 3 and part 4). We would be glad to customise the crimp contact to fit your requirements.

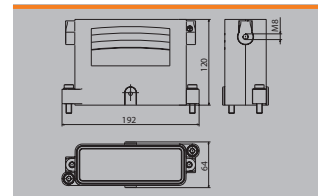


Housing

Plug housing



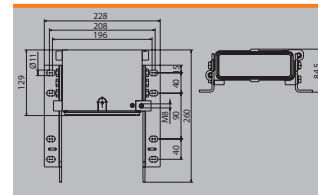
Deployment	Type	Order No.
Plug	HDC IP68 HP 24B T0	1079930000



Base housing



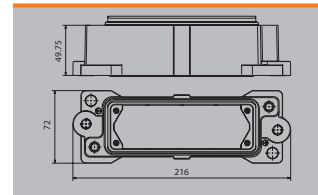
Deployment	Type	Order No.
Base housing	HDC IP68 HP 24B AS S	1079920000



Bulkhead housing



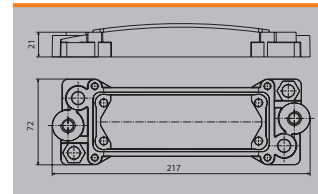
Deployment	Type	Order No.
Bulkhead (Feed-Through)	HDC IP68 HP 24B A	1120040000



Counter-frame



Deployment	Type	Order No.
Counter-frame	HDC IP68 24B HP FRAME	1282820000



RockStar® HighPower 250 A

Housing

Mounting cover



Deploym.	Cable entry	Number	Size	Type	Order No.
Cover				HDC IP68 24B MD	1119950000
Cover	w. threading	3	M 40	HDC IP68 24B MD 3M40	1119970000
Cover	w. threading	3	M 32	HDC IP68 24B MD 3M32	1119980000
Cover	w. threading	3	M 25	HDC IP68 24B MD 3M25	1079910000
Cover	w. threading	2	M 40	HDC IP68 24B MD 2M40	1119990000
Cover	w. threading	2	M 32	HDC IP68 24B MD 2M32	1120000000
Cover	w. threading	4	M 25	HDC IP68 24B MD 4M25 T1	1160450000
Cover	w. threading	2	M 25	HDC IP68 24B MD 2M25	1120010000
Cover	w. threading	4	M 25	HDC IP68 24B MD 4M25 T2	1220860000
Cover	w. threading	1	M 50	HDC IP68 HP 24B 1M50	2451460000
Cover	w. threading	1	M 63	HDC IP68 HP 24B 1M63	2473940000

Note Because of the asymmetric arrangement of the four threaded holes, the T1 version must be used on one side and the T2 version must be used on the other side.

Accessories

Mounting frame



Size	No. of poles	Type	Order No.
3	1	HDC 06B HP250 MPL1	1103680000
8	2	HDC 24B HP250 MPL2 TYP1	1103690000
8	2	HDC 24B HP250 MPL2 TYP2	1103740000
8	3	HDC 24B HP250 MPL3 TYP1	1079640000
8	3	HDC 24B HP250 MPL3 TYP2	1103750000
8	4	HDC 24B HP250 MPL4 TYP1	1160430000
8	4	HDC 24B HP250 MPL4 TYP2	1160440000
8	4	HDC 24B HP250 MPL4PE T1	1212890000
8	4	HDC 24B HP250 MPL4PE T2	1212910000

Mounting frame set



Size	No. of poles	Type	Order No.
8	3	HDC HP 250 SSF BO SET	2008220000
8	3	HDC HP 250 SSM BO SET	2008210000

Note Low resistance current transmission

EMC shield connection



Deploym.	Type	Order No.
	VGM25-MS68 EMC 11-20SET	1463720000
	VGM32-MS68 EMC 15-25SET	1463730000
	VGM40-MS68 EMC 20-32SET	2457660000

Mounting tool



Deploym.	Type	Order No.
	HDC FBS TOOL 13-50	8000015137

Note Spring band clamp installation tool for HighPower shield connections

Touch-safe protection set



Deploym.	Type	Order No.
	HDC HP 250 SHOCKPROTEC	1120130000

Note For use with HighPower 250 A female contacts

RockStar® HighPower 250 A

Accessories

Signal contact carrier



Deploym.	Type	Order No.
	HDC HP 250 M CM3	1415410000
	HDC HP 250 F CM3	1415420000

Note The CM3 crimp contacts have to be ordered separately.

Cable glands



Thread	Material	Cable diameter	Type	Order No.
M 25	Stainless steel 1.4305 (303)	11...20 mm	VGM25-SS68 11-20 BG	1193570000
M 32	Stainless steel 1.4305 (303)	15...25 mm	VGM32-SS68 15-25 BG	1193580000
M 40	Stainless steel 1.4305 (303)	20...32 mm	VGM40-SS68 20-32 BG	1193590000
M 25	Brass, nickel-plated	11...20 mm	VGM25-MS68 11-20 BG	1193600000
M 32	Brass, nickel-plated	15...25 mm	VGM32-MS68 15-25 BG	1193610000
M 40	Brass, nickel-plated	20...32 mm	VGM40-MS68 20-32 BG	1193620000

Note When using mounting covers with 3 X M 40 cable input threads, the elongated version must be used for the cable gland in the middle.

Cable glands, elongated version



Thread	Material	Cable diameter	Type	Order No.
M 40	Stainless steel 1.4305 (303)	20...32 mm	VGM40/1-SS68 20-32 BG	1205920000
M 40	Brass, nickel-plated	20...32 mm	VGM40/1-MS68 20-32 BG	1205890000

Crimping tools

EPG 45 hydraulic battery crimping tool



Type	Order No.
EPG 45	1500830000

Hexagonal crimp inserts for EPG 45



Code no.	CU mm ²	Crimping width	Type	Order No.
5	6	7	ES MTR110 HEX 6	1500930000
6/16	10/70	7/5	ES MTR110 HEX 10/70	1500940000
8/12	16/35	12/10	ES MTR110 HEX 16/35	1500950000
10/14	25/50	12/5	ES MTR110 HEX 25/50	1500970000
18	95	5	ES MTR110 HEX 95	1500980000
22	150	5	ES EPG 45 HEX 150	1994540000
20	120	5	ES MTR110 HEX 120	1500990000

RockStar® HighPower 250 A

Crimping tools

APG 55 hydraulic battery crimping tool



Type	Order No.
APG 55	1501390000

Hexagonal crimp inserts for APG 55



Code no.	CU mm ²	Crimping width	Type	Order No.
5	6	7	ES APG/HPG55 HEX 6	1501530000
6/16	10/70	7	ES APG/HPG55 HEX 10/70	1501540000
8/12	16/35	12/5	ES APG/HPG55 HEX 16/35	1501550000
10/14	25/50	12/5	ES APG/HPG55 HEX 25/50	1501570000
18	95	5	ES APG/HPG55 HEX 95	1501580000
20	120	5	ES APG/HPG55 HEX 120	1501590000
22	150	5	ES APG/HPG55 HEX 150	1501600000
25	185	5	ES APG/HPG55 HEX 185	1501620000

APG 80 hydraulic battery crimping tool



Type	Order No.
APG 80	1502390000

Hexagonal crimp inserts for APG 80



Code no.	CU mm ²	Crimping width	Type	Order No.
5	6	7	ES APG/HPG80 HEX 6	1502600000
6	10	7	ES APG/HPG80 HEX 10	1502620000
8	16	12	ES APG/HPG80 HEX 16	1502630000
10	25	12	ES APG/HPG80 HEX 25	1502640000
12	35	12	ES APG/HPG80 HEX 35	1502650000
14	50	12	ES APG/HPG80 HEX 50	1502670000
16	70	12	ES APG/HPG80 HEX 70	1502680000
18	95	10	ES APG/HPG80 HEX 95	1502690000
20	120	10	ES APG/HPG80 HEX 120	1502700000
22	150	5	ES APG/HPG80 HEX 150	1502720000
25	185	5	ES APG/HPG80 HEX 185	1502730000
28	240	5	ES APG/HPG80 HEX 240	1502740000
32	300	7	ES APG/HPG80 HEX 300	1502750000

HighPower 550 A


RockStar® HighPower is designed to meet the strict standards set by DIN EN 61373 Cat. 2 (pivot mounting). The coordinated connector components provide you with a fail-safe and maintenance-free power transmission solution: in this case up to 550 A / 4,000 V.



Technical data

HighPower 550 A series	
Standards	DIN EN 50124-1 In compliance with DIN EN 61984 DIN EN 50155 DIN EN 61373 KAT 2 (Pivot mounting)
Number of contacts	1-, 2-, 3 poles
Wire connection method	Crimp
Rated current	550 A
Rated insulation voltage (highest permitted operating voltage)	
AC wire - wire	4,000 V (4,800 V)*
AC wire - earthed housing	3,000 V
DC wire - wire	4,000 V (4,800 V)*
DC wire - earthed housing	3,000 V
Rated impulse voltage	
Wire - wire	25 kV
Wire - earthed housing	15 kV
Surge voltage category	OV 3
Pollution severity degree	PD 2 (PD 3) ¹
Material	
Insulating body	PA 66 glass-fibre reinforced
Contact	Copper alloy, silver plated
Flammability	
According to UL 94	V-0
According to NFF 16-101 / NFF 16-102	I3 F2
DIN 5510 Part 2	V-0
Insulation resistance	10 ¹⁰ Ω
Temperature range	-50 °C to +120 °C
HDC IP68 HP 248 series	
Protection degree according to DIN EN 60529	IP68 when interlocked
Colour	RAL 9005 (black)
Surface finish	Powder coating
Locking element	
Screw interlock	M8
Material	Stainless steel, rust-proof
Torque	11 Nm
Housing seal	Silicone rubber
Temperature range	-50 °C to +120 °C
Material	
Housing	Die-cast aluminium alloy, corrosion resistant
Mounting bracket	Stainless steel, rust-proof
Accessories	
Material	
Assembly frame	Stainless steel, rust-proof
Shield clamp	Sheet steel, galvanized
Touch-safe protection	PA66
Colour	
Assembly frame	Natural
Shield clamp	Natural
Touch-safe protection	Orange
Cable gland	
Material	
Cable gland	Optional as nickel-plated brass or stainless steel
Seal insert	TPE
Temperature range	-40 °C to +130 °C
Class of protection	IP68
Note:	
*4,800 V, depending on the application	
¹ The contacts are protected against contamination and condensation within the HDC housing.	
The completely assembled connector can be used at pollution degree PD 3.	

Overview

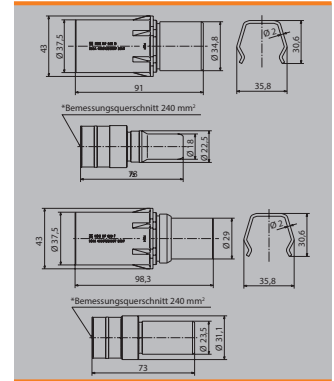
	Size	Rated voltage	Rated current	No. of poles	Tension clamp connection	TOP connection	Screw conn. with wire guard spring	Crimp connection	PUSH IN connection	Page
	8	4,000 V	550 A	1 - 3				•		D.12

Crimp contacts

Crimp contact



Conductor cross-section	Male Type	Order No.	Female Type	Order No.
25 mm ²	HDC HP 550 M 25	1220580000	HDC HP 550 F 25	1220570000
50 mm ²	HDC HP 550 M 50	1157800000	HDC HP 550 F 50	1177100000
70 mm ²	HDC HP 550 M 70	1268810000	HDC HP 550 F 70	1268820000
95 mm ²	HDC HP 550 M 95	1079790000	HDC HP 550 F 95	1079810000
120 mm ²	HDC HP 550 M 120	1079780000	HDC HP 550 F 120	1079820000
150 mm ²	HDC HP 550 M 150	1119110000	HDC HP 550 F 150	1079830000
185 mm ²	HDC HP 550 M 185	1120580000	HDC HP 550 F 185	1079840000
240 mm ²	HDC HP 550 M 240	1120590000	HDC HP 550 F 240	1120600000

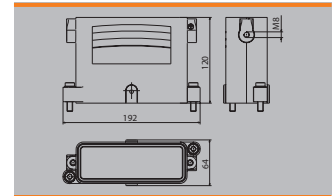


Housing

Plug housing



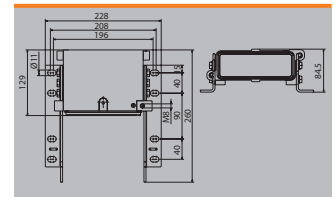
Deployment	Type	Order No.
Plug	HDC IP68 HP 24B T0	1079930000



Base housing



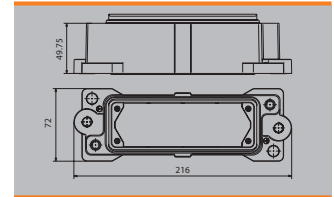
Deployment	Type	Order No.
Base housing	HDC IP68 HP 24B AS S	1079920000



Bulkhead housing



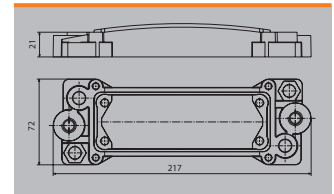
Deployment	Type	Order No.
Bulkhead (Feed-Through)	HDC IP68 HP 24B A	1120040000



Counter-frame



Deployment	Type	Order No.
Counter-frame	HDC IP68 24B HP FRAME	1282820000



RockStar® HighPower 550 A

Housing

Mounting cover



Deploym.	Cable entry	Number	Size	Type	Order No.
Cover				HDC IP68 24B MD	1119950000
Cover	w. threading	3	M 40	HDC IP68 24B MD 3M40	1119970000
Cover	w. threading	3	M 32	HDC IP68 24B MD 3M32	1119980000
Cover	w. threading	3	M 25	HDC IP68 24B MD 3M25	1079910000
Cover	w. threading	2	M 40	HDC IP68 24B MD 2M40	1119990000
Cover	w. threading	2	M 32	HDC IP68 24B MD 2M32	1120000000
Cover	w. threading	2	M 25	HDC IP68 24B MD 2M25	1120010000
Cover	w. threading	1	M 50	HDC IP68 HP 24B 1M50	2451460000
Cover	w. threading	1	M 63	HDC IP68 HP 24B 1M63	2473940000

Note

Accessories

Mounting frame



Size	No. of poles	Type	Order No.
8	2	HDC 24B HP550 MPL2 TYP1	1103710000
8	2	HDC 24B HP550 MPL2 TYP2	1103770000
8	3	HDC 24B HP550 MPL3 TYP1	1103720000
8	3	HDC 24B HP550 MPL3 TYP2	1103780000

Mounting frame set



Size	No. of poles	Type	Order No.
8	3	HDC HP 550 SSM SET	1987920000
8	3	HDC HP 550 SSF SET	1987950000

Note Low resistance screen transmission

EMC shield connection



Deploym.	Type	Order No.
	VGM25-MS68 EMC 11-20SET	1463720000
	VGM32-MS68 EMC 15-25SET	1463730000
	VGM40-MS68 EMC 20-32SET	2457660000

Mounting tool



Deploym.	Type	Order No.
	HDC FBS TOOL 13-50	8000015137

Note Spring band clamp installation tool for HighPower shield connections

Touch-safe protection set



Deploym.	Type	Order No.
	HDC HP 550 SHOCKPROTEC	1120140000

Note For use with HighPower 550 A female contacts

Accessories

Cable gland



Thread	Material	Cable diameter	Type	Order No.
M 25	Stainless steel 1.4305 (303)	11...20 mm	VGM25-SS68 11-20 BG	1193570000
M 32	Stainless steel 1.4305 (303)	15...25 mm	VGM32-SS68 15-25 BG	1193580000
M 40	Stainless steel 1.4305 (303)	20...32 mm	VGM40-SS68 20-32 BG	1193590000
M 25	Brass, nickel-plated	11...20 mm	VGM25-MS68 11-20 BG	1193600000
M 32	Brass, nickel-plated	15...25 mm	VGM32-MS68 15-25 BG	1193610000
M 40	Brass, nickel-plated	20...32 mm	VGM40-MS68 20-32 BG	1193620000

Note When using mounting covers with 3 X M 40 cable input threads, the elongated version must be used for the cable gland in the middle.

Cable glands, elongated version



Thread	Material	Cable diameter	Type	Order No.
M 40	Stainless steel 1.4305 (303)	20...32 mm	VGM40/1-SS68 20-32 BG	1205920000
M 40	Brass, nickel-plated	20...32 mm	VGM40/1-MS68 20-32 BG	1205890000

Crimping tools

EPG 45 hydraulic battery crimping tool



Type	Order No.
EPG 45	1500830000

Hexagonal crimp inserts for EPG 45



Code no.	CU mm ²	Crimping width	Type	Order No.
5	6	7	ES MTR110 HEX 6	1500930000
6/16	10/70	7/5	ES MTR110 HEX 10/70	1500940000
8/12	16/35	12/10	ES MTR110 HEX 16/35	1500950000
10/14	25/50	12/5	ES MTR110 HEX 25/50	1500970000
18	95	5	ES MTR110 HEX 95	1500980000
22	150	5	ES EPG 45 HEX 150	1994540000
20	120	5	ES MTR110 HEX 120	1500990000

APG 55 hydraulic battery crimping tool



Type	Order No.
APG 55	1501390000

Hexagonal crimp inserts for APG 55



Code no.	CU mm ²	Crimping width	Type	Order No.
5	6	7	ES APG/HPG55 HEX 6	1501530000
6/16	10/70	7	ES APG/HPG55 HEX 10/70	1501540000
8/12	16/35	12/5	ES APG/HPG55 HEX 16/35	1501550000
10/14	25/50	12/5	ES APG/HPG55 HEX 25/50	1501570000
18	95	5	ES APG/HPG55 HEX 95	1501580000
20	120	5	ES APG/HPG55 HEX 120	1501590000
22	150	5	ES APG/HPG55 HEX 150	1501600000
25	185	5	ES APG/HPG55 HEX 185	1501620000

RockStar® HighPower 550 A

Crimping tools

APG 80 hydraulic battery crimping tool



Type	Order No.
APG 80	1502390000

Hexagonal crimp inserts for APG 80



Code no.	CU mm ²	Crimping width	Type	Order No.
5	6	7	ES APG/HPG80 HEX 6	1502600000
6	10	7	ES APG/HPG80 HEX 10	1502620000
8	16	12	ES APG/HPG80 HEX 16	1502630000
10	25	12	ES APG/HPG80 HEX 25	1502640000
12	35	12	ES APG/HPG80 HEX 35	1502650000
14	50	12	ES APG/HPG80 HEX 50	1502670000
16	70	12	ES APG/HPG80 HEX 70	1502680000
18	95	10	ES APG/HPG80 HEX 95	1502690000
20	120	10	ES APG/HPG80 HEX 120	1502700000
22	150	5	ES APG/HPG80 HEX 150	1502720000
25	185	5	ES APG/HPG80 HEX 185	1502730000
28	240	5	ES APG/HPG80 HEX 240	1502740000
32	300	7	ES APG/HPG80 HEX 300	1502750000

RockStar® Housings IP65 / NEMA Type 12, 4X

RockStar® Housings IP65 / NEMA Type 12, 4X	Introduction	E.2
	RockStar® Housings IP65 / NEMA Type 12, 4X	E.4
	Size 1 - 12	



RockStar® Housings IP65 / NEMA Type 12, 4X

Where something extra comes as standard. The high quality workmanship of RockStar® IP65 housings begins with the material from which all interlock mechanisms are made: stainless steel. It guarantees a long lifespan with high resistance to corrosion and impact. For the die-cast aluminium variants, a high-quality, multi-stage surface sealing provides years of safety and reliability – even under the most extreme conditions. With just one housing series, Weidmüller delivers the proper protective solution for your heavy-duty connector – so your choice is simple.

Other standard extras:

- A patented spring system provides a secure interlock and easier handling.
- Integrated threads: your choice of cable glands
- Integrated insulation strips: for worry-free transmission of higher voltages

RockStar® IP65 housings are available in twelve sizes and can be combined with all fixed-pole and modular inserts.



Sturdy

Stainless steel interlock systems and multi-stage surface sealing results in high durability



Reliable

Guaranteed protection against jets of water, corrosion, ice and rain, according to IEC 60529 and UL.



Practical

Laser labelling for permanent identification and faster allocation



RockStar® Housings IP65 / NEMA Type 12, 4X

Plastic housing

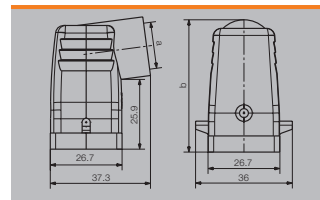
Size 1

Hood

Plug housing, cable entry sideways



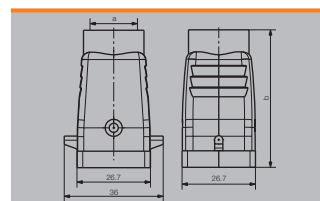
Colour	Version	b (mm)	Type	Order No.
Beige	w. threading	49.2	HDC 07A TWLU 1M20G	1788510000
Beige	w. threading	49.2	HDC 07A TWLU 1PG11G	1652400000



Plug housing, cable entry at top



Colour	Version	b (mm)	Type	Order No.
Beige	w. threading	50	HDC 07A TOLU 1M20G	1788520000
Beige	w. threading	50	HDC 07A TOLU 1PG11G	1652380000
Black	w. threading	50	HDC 07A TOLU 1M20G BLK	2089000000



Plastic housing

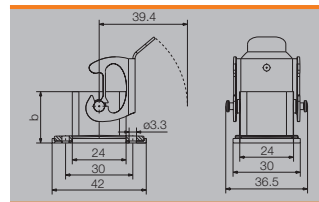
Size 1

Base

Bulkhead housing



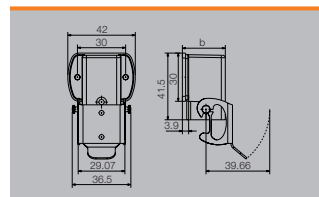
Colour	Version	b (mm)	Type	Order No.
Beige	23	23	HDC 07A ALU	1652410000
Black	23	23	HDC 07A ALU BLK	2088980000



Bulkhead housing, angled



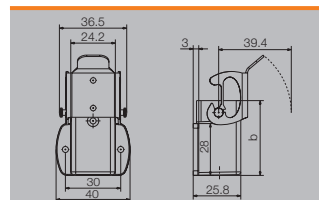
Colour	Version	b (mm)	Type	Order No.
Beige	angled	26.7	HDC 07A AWLU	1652420000



Base housing



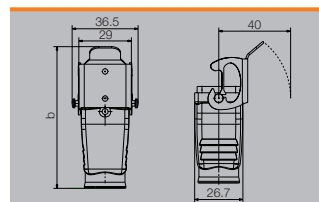
Version	b (mm)	Type	Order No.
w. threading	41.5	HDC 07A SLU 1M20G	1788530000
w. conn. adapter	41.5	HDC 07A SLU 1PG11S	1652440000



Coupling housing



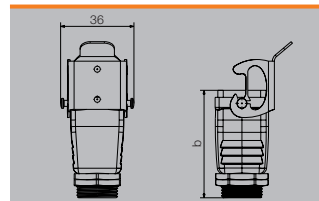
Version	b (mm)	Type	Order No.
w. threading	53.5	HDC 07A KOLU 1M20G	1788540000
w. threading	53.5	HDC 07A KOLU 1PG11G	1652460000



Screw mounting housing



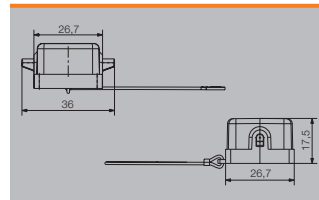
Version	b (mm)	Type	Order No.
w. threading	54	HDC 07A ELU 1PG13G	1900990000



Cover



Version	Type	Order No.
for female insert	HDC 07A DMDL 2B0	1665770000
for male insert	HDC 07A DDDL 2B0	1665760000



RockStar® Housings IP65 / NEMA Type 12, 4X

Metal housing

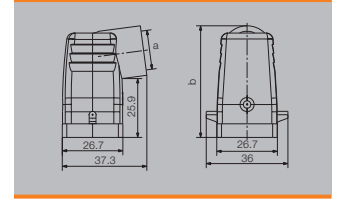
Size 1

Hood

Plug housing, cable entry sideways



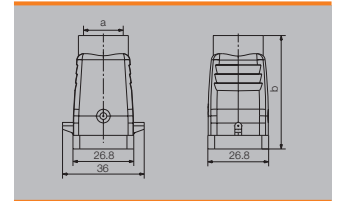
Version	b (mm)	Type	Order No.
w. threading	49.2	HDC 04A TWLU 1M20G	1788810000
w. threading	49.2	HDC 04A TWLU 1PG11G	1652480000



Plug housing, cable entry at top



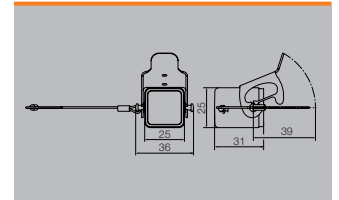
Version	b (mm)	Type	Order No.
w. threading	50	HDC 04A TOLU 1M16G	1206090000
w. threading	50	HDC 04A TOLU 1M20G	1788820000
w. threading	50	HDC 04A TOLU 1PG11G	1652470000



Cover



Version	Type	Order No.
for male insert	HDC 04A DODL 1LB	1963690000



Metal housing

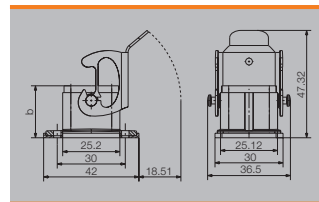
Size 1

Base

Bulkhead housing



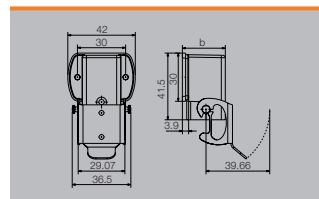
Version	b (mm)	Type	Order No.
	23	HDC 04A ALU	1497600000



Bulkhead housing, angled



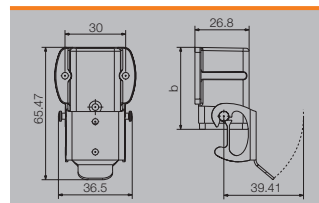
Version	b (mm)	Type	Order No.
angled	26.7	HDC 04A AWLU	1497700000



Base housing



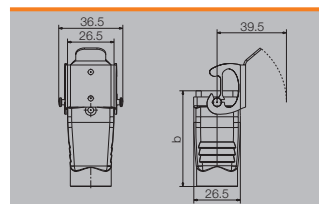
Version	b (mm)	Type	Order No.
w. threading	41.5	HDC 04A SLU 1M20G	1788830000
w. threading	41.5	HDC 04A SLU 1PG11G	1652490000



Coupling housing



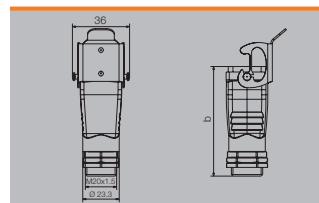
Version	b (mm)	Type	Order No.
w. threading	53.5	HDC 04A KOLU 1M20G	1788840000
w. threading	53.5	HDC 04A KOLU 1PG11G	1652500000



Screw mounting housing



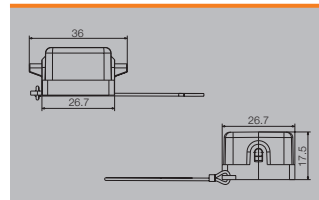
Version	b (mm)	Type	Order No.
w. threading	54	HDC 04A ELU 1M20G	1900320000
w. threading	54	HDC 04A ELU 1PG13S	1900330000



Cover



Version	Type	Order No.
for female insert	HDC 04A DMDL 2B0	1665750000
for male insert	HDC 04A DDDL 2B0	1665740000



RockStar® Housings IP65 / NEMA Type 12, 4X

Plastic housing

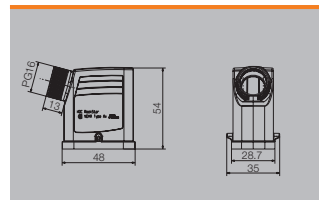
Size HQ

Hood

Plug housing, cable entry sideways



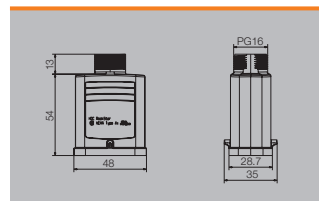
Version	b (mm)	Type	Order No.
w. threading	54	HDC HQP TSLU 1PG16	1003090000



Plug housing, cable entry at top



Version	b (mm)	Type	Order No.
w. threading	67	HDC HQP TOLU 1PG16	1003070000

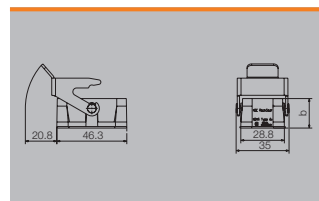


Base

Bulkhead housing



Version	b (mm)	Type	Order No.
	19.5	HDC HQP ALU	1003040000
	19.5	HDC HQP ALU CS	1354950000

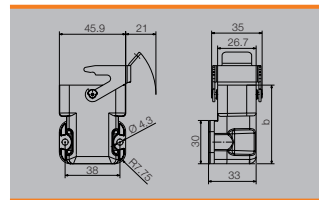


Note CS: with locking bow

Bulkhead housing, angled



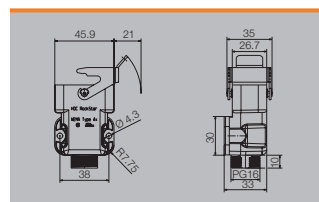
Version	b (mm)	Type	Order No.
angled	54.5	HDC HQP AWLU	1003060000



Base housing



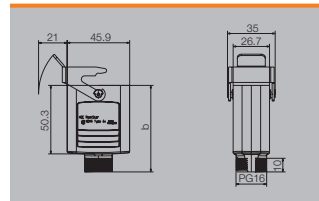
Version	b (mm)	Type	Order No.
w. threading	54.5	HDC HQP SLU 1PG16	1003110000



Coupling housing



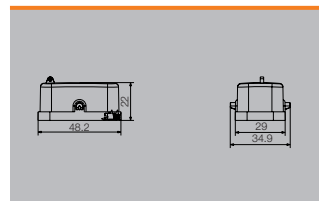
Version	b (mm)	Type	Order No.
w. threading	63.5	HDC HQP KOLU 1PG16	1003120000



Cover



Version	Type	Order No.
for female insert	HDC HQP DMD 2B0	1003130000
for male insert	HDC HQP DOD 2B0	1003140000
Seal located inside, standard, For bases	HDC HQP DMD 2B0 CS	1251660000
for male insert	HDC HQP DOD 2B0 CS	1251670000



Note for plastic and metal housings, for locking bow

Die cast zinc housing (EMC)

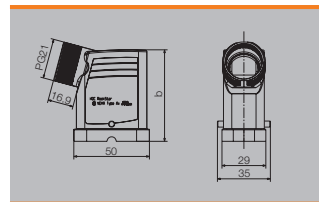
Size HQ

Hood

Plug housing, cable entry sideways



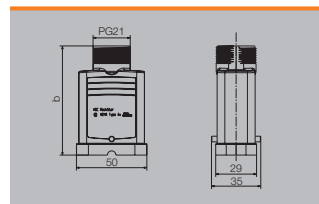
Version	b (mm)	Type	Order No.
w. threading	60.5	HDC HQM TSLU 1PG21	1003100000



Plug housing, cable entry at top



Version	b (mm)	Type	Order No.
w. threading	77.5	HDC HQM TOLU 1PG21	1003080000



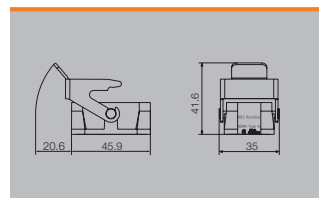
Base

Bulkhead housing



Version	b (mm)	Type	Order No.
	20.5	HDC HQM ALU	1003050000
	20.5	HDC HQM ALU CS	1251680000

Note CS: with locking bow



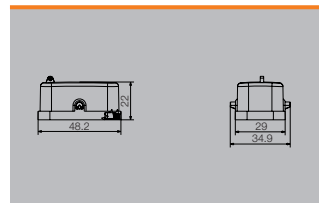
Cover



Material: Plastic

Version	Type	Order No.
for female insert	HDC HQP DMD 2B0	1003130000
for male insert	HDC HQP DOD 2B0	1003140000
Seal located inside, standard, For bases	HDC HQP DMD 2B0 CS	1251660000
for male insert	HDC HQP DOD 2B0 CS	1251670000

Note for plastic and metal housings, for locking bow



RockStar® Housings IP65 / NEMA Type 12, 4X

End locking, lower side

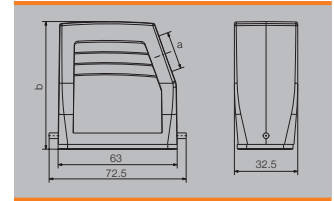
Size 2

Hood

Plug housing, cable entry sideways



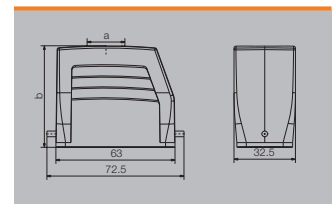
Version	b (mm)	Type	Order No.
w. threading	54	HDC 10A TSLU 1M20G	1967660000
w. threading	68	HDC 15A TSLU 1M20G	1788860000
w. threading	68	HDC 15A TSLU 1M25G	1788850000
w. threading	54	HDC 10A TSLU 1PG16G	1663810000
w. threading	68	HDC 15A TSLU 1PG16G	1663850000
w. threading	68	HDC 15A TSLU 1PG21G	1663870000



Plug housing, cable entry at top



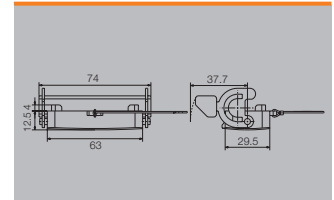
Version	b (mm)	Type	Order No.
w. threading	54	HDC 10A TOLU 1M20G	1788620000
w. threading	54	HDC 10A TOLU 1M25G	1788610000
w. threading	54	HDC 10A TOLU 2PG11G	1746170000
w. threading	54	HDC 10A TOLU 1PG16G	1663930000
w. threading	68	HDC 15A TOLU 1PG21G	1663990000



Cover



Version	Type	Order No.
For hoods (upper parts of housings)	HDC 10A DODL 1LB	1665890000



End locking, lower side

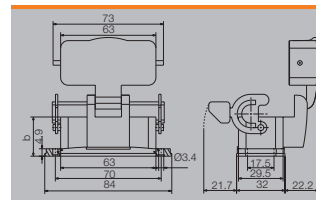
Size 2

Base

Bulkhead housing



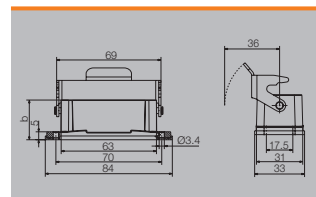
Version	b (mm)	Type	Order No.
	25	HDC 10A ALU	1664040000
	37.5	HDC 10A ADLU	1664060000



Bulkhead housing



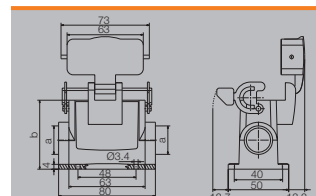
Version	b (mm)	Type	Order No.
	26	HDC 10A ALU SL	1021450000



Base housing



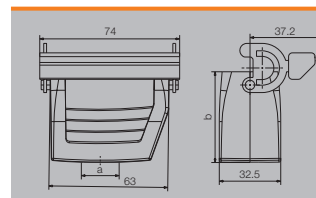
Version	b (mm)	Type	Order No.
w. threading	57	HDC 10A SLU 1M20G	1901100000
w. threading	69.5	HDC 10A SDLU 1M20G	1901010000
w. threading	57	HDC 10A SLU 2M20G	1788640000
w. threading	69.5	HDC 10A SDLU 2M20G	1788660000
w. threading	57	HDC 10A SLU 1M25G	1901160000
w. threading	69.5	HDC 10A SDLU 1M25G	1901040000
w. threading	57	HDC 10A SLU 2M25G	1788630000
w. threading	69.5	HDC 10A SDLU 2M25G	1788650000
w. threading	57	HDC 10A SLU 1PG16G	1664170000
w. threading	69.5	HDC 10A SDLU 1PG16G	1664410000
w. threading	57	HDC 10A SLU 2PG16G	1664190000
w. threading	69.5	HDC 10A SDLU 2PG16G	1664420000
w. threading	57	HDC 10A SLU 1PG21G	1664210000



Coupling housing



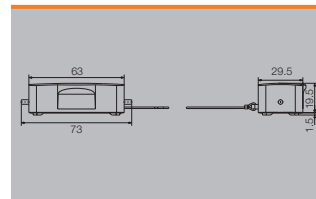
Version	b (mm)	Type	Order No.
w. threading	48	HDC 10A KLU 1M25G	1788670000
w. threading	48	HDC 10A KLU 2PG09G	1783250000
w. threading	48	HDC 10A KLU 1PG16G	1664560000
w. threading	62	HDC 15A KLU 1PG21G	1664630000



Cover



Version	Type	Order No.
For bases (lower parts of housings)	HDC 10A DMDL 2B0	1665880000



RockStar® Housings IP65 / NEMA Type 12, 4X

End locking, lower side

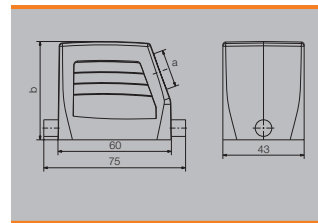
Size 3

Hood

Plug housing, cable entry sideways



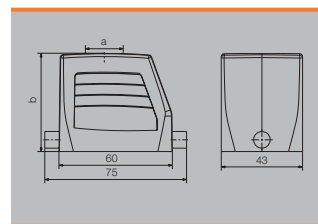
Version	b (mm)	Type	Order No.
w. threading	52	HDC 06B TSLU 1M20G	1788100000
w. threading	52	HDC 06B TSLU 1M25G	1788090000
w. threading	72	HDC 06B TSLU 1M25G	1787480000
w. threading	72	HDC 16D TSLU 1M32G	1787470000
w. threading	52	HDC 06B TSLU 1PG13G	1670530000
w. threading	52	HDC 06B TSLU 1PG16G	1652520000
w. threading	72	HDC 16D TSLU 1PG21G	1652560000
w. threading	72	HDC 16D TSLU 1PG29G	1652580000



Plug housing, cable entry at top



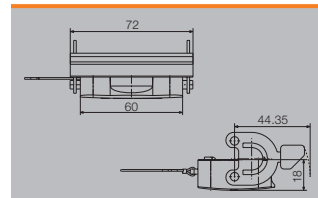
Version	b (mm)	Type	Order No.
w. threading	52	HDC 06B TOLU 1M20G	1788120000
w. threading	52	HDC 06B TOLU 1M25G	1788110000
w. threading	72	HDC 16D TOLU 1M25G	1787500000
w. threading	72	HDC 16D TOLU 1M32G	1787490000
w. threading	52	HDC 06B TOLU 1PG13G	1670500000
w. threading	52	HDC 06B TOLU 1PG16G	1652640000
w. threading	72	HDC 16D TOLU 1PG21G	1652680000
w. threading	72	HDC 16D TOLU 1PG29G	1652700000



Cover



Version	Type	Order No.
For hoods (upper parts of housings)	HDC 06B DMDL 1LB	1665210000



End locking, lower side

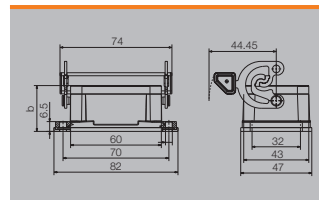
Size 3

Base

Bulkhead housing



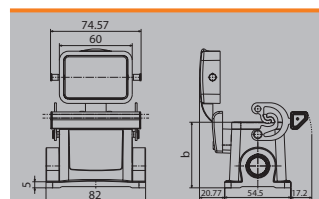
Version	b (mm)	Type	Order No.
	29	HDC 06B ALU	1202100000
	47	HDC 06B ADLU	1202500000
	27.8	HDC 06B ALU O-RING	1019870000



Base housing



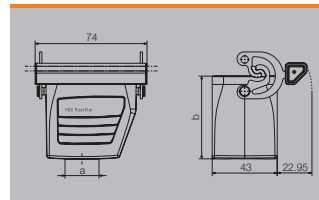
Version	b (mm)	Type	Order No.
w. threading	54	HDC 06B SLU 1M20G	1900460000
w. threading	72	HDC 06B SDLU 1M20G	1900360000
w. threading	54	HDC 06B SLU 2M20G	1788140000
w. threading	72	HDC 06B SDLU 2M20G	1788170000
w. threading	54	HDC 06B SLU 1M25G	1900480000
w. threading	72	HDC 06B SDLU 1M25G	1900380000
w. threading	74	HDC 16D SLU 1M25G	1900880000
w. threading	92	HDC 16D SDLU 1M25G	1900820000
w. threading	54	HDC 06B SLU 2M25G	1788130000
w. threading	74	HDC 16D SLU 2M25G	1787520000
w. threading	92	HDC 16D SDLU 2M25G	1787540000
w. threading	72	HDC 06B SDLU 2M25G	1788160000
w. threading	74	HDC 16D SLU 1M32G	1900900000
w. threading	74	HDC 16D SLU 2M32G	1787510000
w. threading	54	HDC 06B SLU 1PG16G	1652750000
w. threading	72	HDC 06B SDLU 1PG16G	1652980000
w. threading	54	HDC 06B SLU 2PG16G	1652760000
w. threading	72	HDC 06B SDLU 2PG16G	1652990000
w. threading	74	HDC 16D SLU 2PG21G	1652840000



Coupling housing



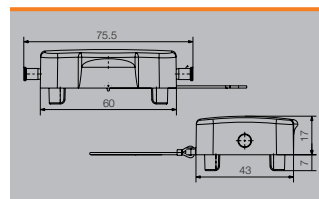
Version	b (mm)	Type	Order No.
w. threading	55	HDC 06B KLU 1M25G	1021330000
w. threading	75	HDC 16D KLU 1PG21G	1653230000
w. threading	55	HDC 06B KLU 1PG16G	1653200000



Cover



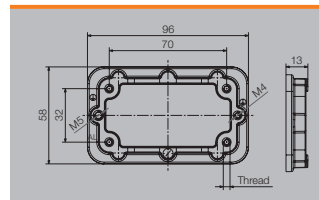
Version	Type	Order No.
For bases (lower parts of housings)	HDC 06B DODL 2B0	1665200000



Counter-frame



Version	b (mm)	Type	Order No.
		HDC IP65 06B FRAME M4	1081550000



RockStar® Housings IP65 / NEMA Type 12, 4X

Side locking, lower side

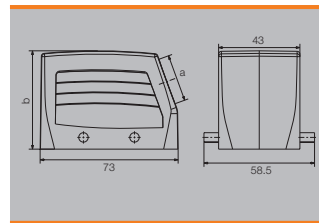
Size 4

Hood

Plug housing, cable entry sideways



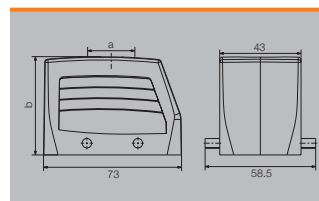
Version	b (mm)	Type	Order No.
w. threading	52	HDC 10B TSBU 1M20G	1787560000
w. threading	52	HDC 10B TSBU 1M25G	1787550000
w. threading	72	HDC 24D TSBU 1M25G	1787240000
w. threading	72	HDC 24D TSBU 1M32G	1787230000
w. threading	52	HDC 10B TSBU 1PG16G	1654070000
w. threading	52	HDC 10B TSBU 1PG21G	1654090000
w. threading	72	HDC 24D TSBU 1PG21G	1654150000
w. threading	72	HDC 24D TSBU 1PG29G	1654170000



Plug housing, cable entry at top



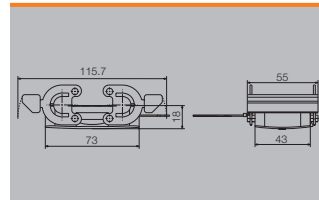
Version	b (mm)	Type	Order No.
w. threading	52	HDC 10B TOBU 1M20G	1787600000
w. threading	52	HDC 10B TOBU 1M25G	1787590000
w. threading	72	HDC 24D TOBU 1M25G	1787300000
w. threading	72	HDC 24D TOBU 1M32G	1787290000
w. threading	52	HDC 10B TOBU 1PG16G	1654220000
w. threading	52	HDC 10B TOBU 1PG21G	1654240000
w. threading	72	HDC 24D TOBU 1PG29G	1654320000



Cover



Version	Type	Order No.
For hoods (upper parts of housings)	HDC 10B DMDQ 20B	1665240000



Side locking, lower side

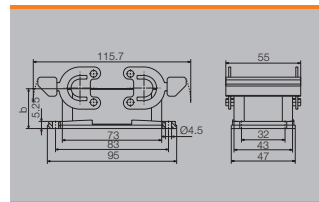
Size 4

Base

Bulkhead housing



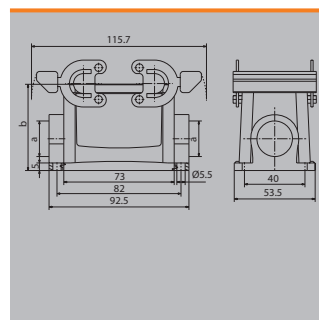
Version	b (mm)	Type	Order No.
	29.3	HDC 10B ABU	120500000



Base housing



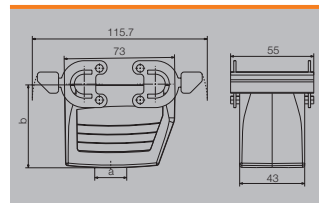
Version	b (mm)	Type	Order No.
w. threading	57	HDC 10B SBU 1M20G	1901360000
w. threading	57	HDC 10B SBU 2M20G	1787640000
w. threading	57	HDC 10B SBU 1M25G	1901370000
w. threading	57	HDC 10B SBU 2M25G	1787630000
w. threading	74	HDC 24D SBU 1M25G	1903210000
w. threading	74	HDC 24D SBU 2M25G	1787350000
w. threading	74	HDC 24D SBU 1M32G	1903220000
w. threading	74	HDC 24D SBU 2M32G	1787360000
w. threading	57	HDC 10B SBU 1PG16G	1654370000
w. threading	57	HDC 10B SBU 2PG16G	1654380000
w. threading	74	HDC 24D SBU 2PG21G	1654450000
w. threading	74	HDC 24D SBU 1PG29G	1654470000



Coupling housing



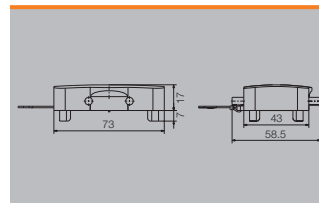
Version	b (mm)	Type	Order No.
w. threading	55	HDC 10B KBU 1M20G	1787720000
w. threading	55	HDC 10B KBU 1M25G	1021250000
w. threading	55	HDC 10B KBU 1PG16G	1654580000



Cover



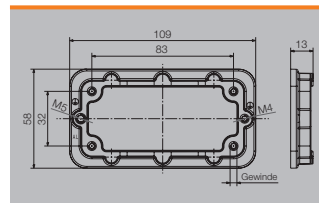
Version	Type	Order No.
For bases (lower parts of housings)	HDC 10B DDDQ 4B0	1665230000



Counter-frame



Version	b (mm)	Type	Order No.
		HDC IP65 10B FRAME M4	1081560000



RockStar® Housings IP65 / NEMA Type 12, 4X

End locking, lower side

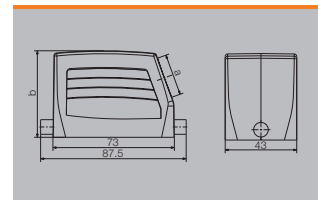
Size 4

Hood

Plug housing, cable entry sideways



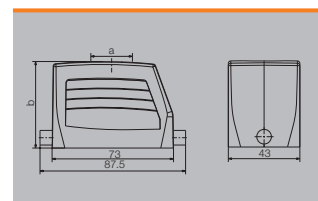
Version	b (mm)	Type	Order No.
w. threading	52	HDC 10B TSLU 1M25G	1787580000
w. threading	72	HDC 24D TSLU 1M25G	1787280000
w. threading	72	HDC 24D TSLU 1M32G	1787270000
w. threading	52	HDC 10B TSLU 1PG16G	1655210000
w. threading	72	HDC 24D TSLU 1PG21G	1655250000
w. threading	72	HDC 24D TSLU 1PG29G	1655270000



Plug housing, cable entry at top



Version	b (mm)	Type	Order No.
w. threading	52	HDC 10B TOLU 1M25G	1787620000
w. threading	72	HDC 24D TOLU 1M25G	1787340000
w. threading	72	HDC 24D TOLU 1M32G	1787330000
w. threading	52	HDC 10B TOLU 1PG16G	1655320000
w. threading	72	HDC 24D TOLU 1PG21G	1655360000
w. threading	72	HDC 24D TOLU 1PG29G	1655380000

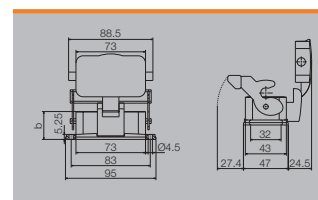


Base

Bulkhead housing



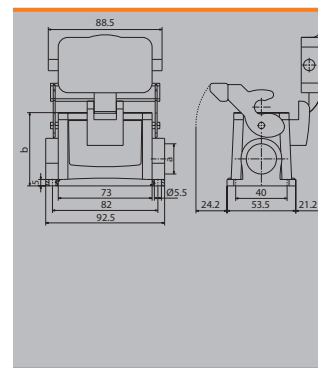
Version	b (mm)	Type	Order No.
	29.3	HDC 10B ALU	1206100000
	47	HDC 10B ADLU	1206500000



Base housing



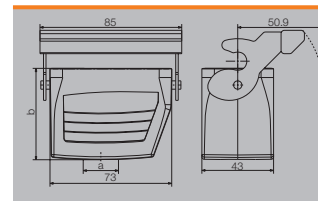
Version	b (mm)	Type	Order No.
w. threading	57	HDC 10B SLU 1M20G	1901620000
w. threading	79.5	HDC 10B SDLU 1M20G	1901570000
w. threading	57	HDC 10B SLU 2M20G	1787660000
w. threading	79.5	HDC 10B SDLU 2M20G	1787700000
w. threading	57	HDC 10B SLU 1M25G	1901640000
w. threading	96.5	HDC 24D SDLU 1M25G	1903410000
w. threading	57	HDC 10B SLU 2M25G	1787650000
w. threading	96.5	HDC 24D SDLU 2M25G	1787420000
w. threading	74	HDC 24D SLU 1M32G	1903560000
w. threading	96.5	HDC 24D SDLU 1M32G	1903510000
w. threading	74	HDC 24D SLU 2M32G	1787370000
w. threading	96.5	HDC 24D SDLU 2M32G	1787410000
w. threading	57	HDC 10B SLU 2PG16G	1655470000
w. threading	79.5	HDC 10B SDLU 2PG16G	1655680000



Coupling housing



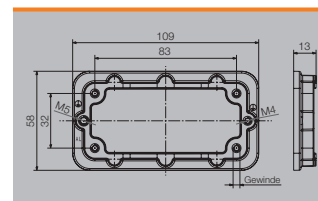
Version	b (mm)	Type	Order No.
w. threading	55	HDC 10B KLU 1M20G	1787740000
w. threading	55	HDC 10B KLU 1M25G	1787730000
w. threading	75	HDC 24D KLU 1M25G	1787460000
w. threading	75	HDC 24D KLU 1M32G	1787450000
w. threading	55	HDC 10B KLU 1PG16G	1655890000



Counter-frame



Version	b (mm)	Type	Order No.
		HDC IP65 10B FRAME M4	1081560000



Side locking, upper side

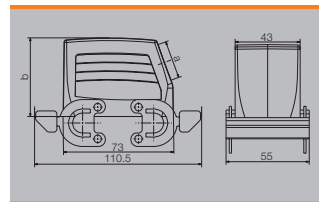
Size 4

Hood

Plug housing, cable entry sideways



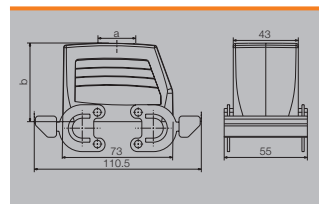
Version	b (mm)	Type	Order No.
w. threading	52	HDC 10B TSBO 1M25G	1787570000
w. threading	72	HDC 24D TSBO 1M25G	1787260000
w. threading	72	HDC 24D TSBO 1M32G	1787250000
w. threading	52	HDC 10B TSBO 1PG16G	1654750000
w. threading	72	HDC 24D TSBO 1PG16G	1654810000
w. threading	72	HDC 24D TSBO 1PG21G	1654790000



Plug housing, cable entry at top



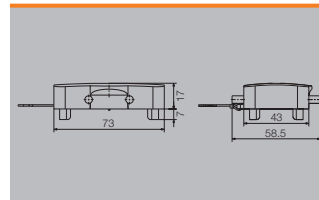
Version	b (mm)	Type	Order No.
w. threading	52	HDC 10B TOBO 1M25G	1787610000
w. threading	52	HDC 10B TOBO 1PG16G	1654860000
w. threading	72	HDC 24D TOBO 1PG29G	1654920000



Cover



Version	Type	Order No.
For hoods (upper parts of housings)	HDC 10B DMDQ 4B0	1665250000

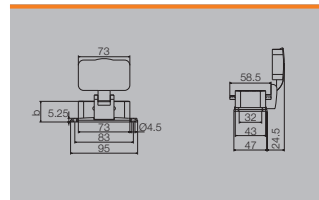


Base

Bulkhead housing



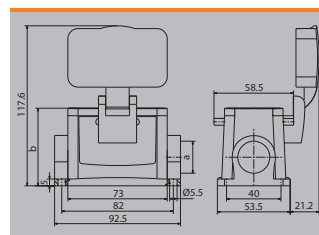
Version	b (mm)	Type	Order No.
		HDC 10B ABO	1052430000
	51.6	HDC 10B ADBO	1205600000



Base housing



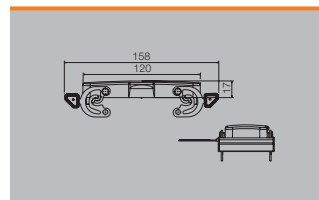
Version	b (mm)	Type	Order No.
w. threading	79.5	HDC 10B SDBO 1M20G	1901490000
w. threading	79.5	HDC 10B SDBO 2M20G	1787680000
w. threading	79.5	HDC 10B SDBO 1M25G	1901510000
w. threading	96.5	HDC 24D SDBO 1M25G	1903370000
w. threading	79.5	HDC 10B SDBO 2M25G	1787670000
w. threading	96.5	HDC 24D SDBO 2M25G	1787400000
w. threading	79.5	HDC 10B SDBO 2PG16G	1655000000



Cover



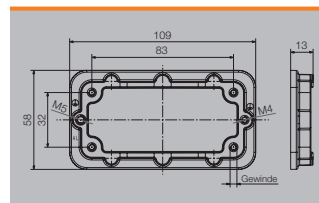
Version	Type	Order No.
For bases (lower parts of housings)	HDC 10B DDDQ 20B	1009080000



Counter-frame



Version	b (mm)	Type	Order No.
		HDC IP65 10B FRAME M4	1081560000



RockStar® Housings IP65 / NEMA Type 12, 4X

Central-locking clamp

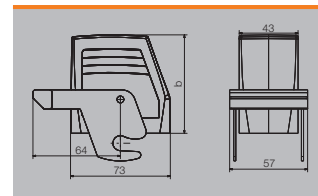
Size 4

Hood

Plug housing, cable entry sideways



Version	b (mm)	Type	Order No.
w. threading	72	HDC 24D TSZO 1M25G	1903610000
w. threading	72	HDC 24D TSZO 1PG21G	1968360000

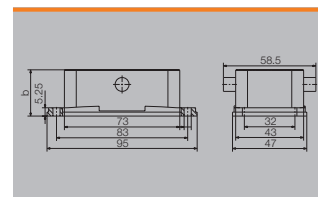


Base

Bulkhead housing



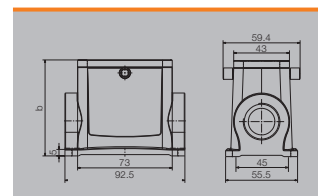
Version	b (mm)	Type	Order No.
	29.3	HDC 10B AZO	1901700000



Base housing



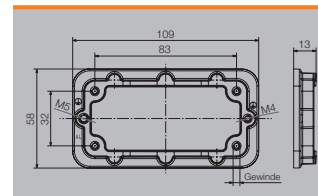
Version	b (mm)	Type	Order No.
w. threading	74	HDC 24D SZO 2PG21G	1968350000



Counter-frame



Version	b (mm)	Type	Order No.
		HDC IP65 10B FRAME M4	1081560000



End locking, lower side

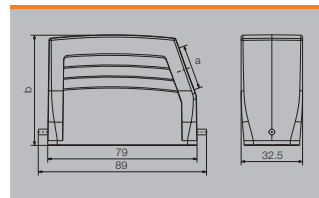
Size 5

Hood

Plug housing, cable entry sideways



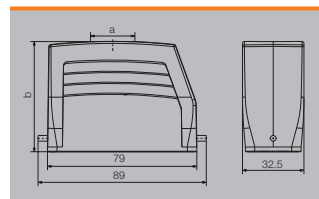
Version	b (mm)	Type	Order No.
w. threading	58	HDC 16A TSLU 1M20G	1041760000
w. threading	72	HDC 25A TSLU 1M20G	1788680000
w. threading	58	HDC 16A TSLU 1M25G	1788740000
w. threading	72	HDC 25A TSLU 1M25G	1788690000
w. threading	58	HDC 16A TSLU 1PG16G	1664690000
w. threading	72	HDC 25A TSLU 1PG16G	1664730000
w. threading	72	HDC 25A TSLU 1PG21G	1664750000



Plug housing, cable entry at top



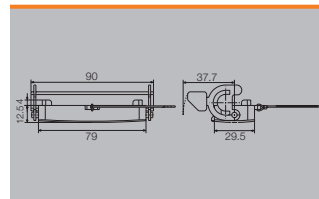
Version	b (mm)	Type	Order No.
w. threading	72	HDC 25A TOLU 1M20G	1788710000
w. threading	58	HDC 16A TOLU 1M25G	1788750000
w. threading	72	HDC 25A TOLU 1M25G	1788700000
w. threading	58	HDC 16A TOLU 1PG16G	1664810000
w. threading	72	HDC 25A TOLU 1PG21G	1664870000



Cover



Version	Type	Order No.
For hoods (upper parts of housings)	HDC 16A DDDL 1LB	1665900000

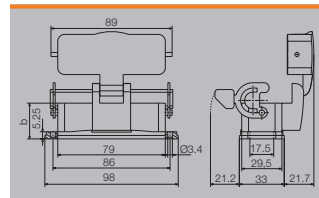


Base

Bulkhead housing



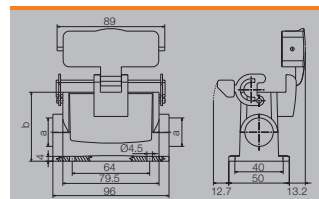
Version	b (mm)	Type	Order No.
	25	HDC 16A ALU	1664920000
	44.5	HDC 16A ADLU	1664940000



Base housing



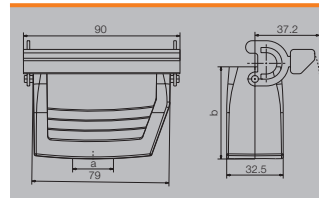
Version	b (mm)	Type	Order No.
w. threading	57	HDC 16A SLU 2M20G	1788770000
w. threading	76.5	HDC 16A SDLU 2M20G	1788790000
w. threading	57	HDC 16A SLU 2M25G	1788760000
w. threading	76.5	HDC 16A SDLU 2M25G	1788780000
w. threading	57	HDC 16A SLU 2PG16G	1665070000
w. threading	76.5	HDC 16A SDLU 2PG16G	1665300000
w. threading	57	HDC 16A SLU 1PG21G	1665090000



Coupling housing



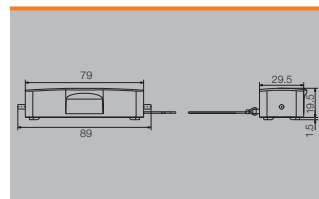
Version	b (mm)	Type	Order No.
w. threading	53	HDC 16A KLU 1M25G	1788800000
w. threading	53	HDC 16A KLU 1PG16G	1665450000



Cover



Version	Type	Order No.
For bases (lower parts of housings)	HDC 16A DMDL 2B0	1665910000



RockStar® Housings IP65 / NEMA Type 12, 4X

Side locking, lower side

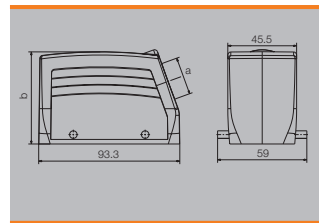
Size 6

Hood

Plug housing, cable entry sideways



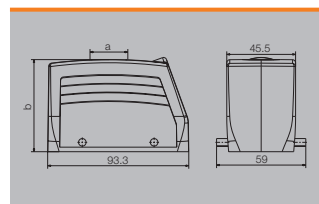
Version	b (mm)	Type	Order No.
w. threading	61	HDC 16B TSBU 1M25G	1788180000
w. threading	76	HDC 40D TSBU 1M25G	1787010000
w. threading	76	HDC 40D TSBU 1M32G	1787000000
w. threading	61	HDC 16B TSBU 1M40G	1809620000
w. threading	76	HDC 40D TSBU 1M40G	1904800000
w. threading	61	HDC 16B TSBU 1PG21G	1656480000
w. threading	76	HDC 40D TSBU 1PG21G	1656520000
w. threading	76	HDC 40D TSBU 1PG29G	1656540000



Plug housing, cable entry at top



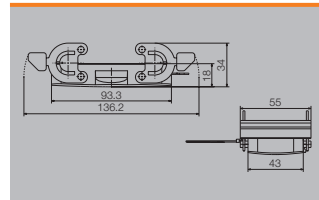
Version	b (mm)	Type	Order No.
w. threading	61	HDC 16B TOBU 1M25G	1788210000
w. threading	76	HDC 40D TOBU 1M25G	1787070000
w. threading	76	HDC 40D TOBU 1M32G	1787060000
w. threading	61	HDC 16B TOBU 1PG21G	1656590000
w. threading	76	HDC 40D TOBU 1PG21G	1656630000
w. threading	76	HDC 40D TOBU 1PG29G	1656650000



Cover



Version	Type	Order No.
For hoods (upper parts of housings)	HDC 16B DMDQ 2QB	1665270000



Side locking, lower side

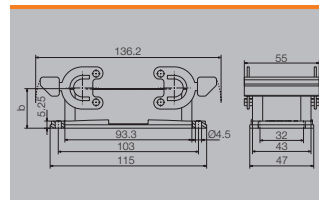
Size 6

Base

Bulkhead housing



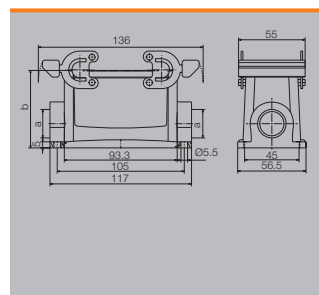
Version	b (mm)	Type	Order No.
	29	HDC 16B ABU	120860000



Base housing



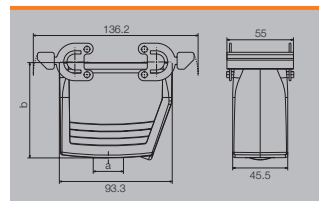
Version	b (mm)	Type	Order No.
w. threading	64	HDC 16B SBU 1M25G	189980000
w. threading	84	HDC 40D SBU 1M25G	1902970000
w. threading	64	HDC 16B SBU 2M25G	1788240000
w. threading	84	HDC 40D SBU 2M25G	1787120000
w. threading	84	HDC 40D SBU 1M32G	1902990000
w. threading	84	HDC 40D SBU 2M32G	1787110000
w. threading	64	HDC 16B SBU 1PG21G	1656720000
w. threading	64	HDC 16B SBU 2PG21G	1656730000
w. threading	84	HDC 40D SBU 2PG21G	1656810000
w. threading	84	HDC 40D SBU 1PG29G	1656830000
w. threading	84	HDC 40D SBU 2PG29G	1656840000



Coupling housing



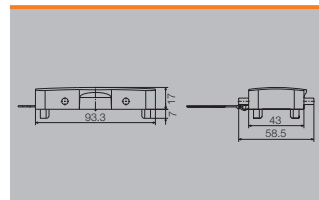
Version	b (mm)	Type	Order No.
w. threading	79	HDC 40D KBU 1M25G	1787200000
w. threading	79	HDC 40D KBU 1M32G	1787190000
w. threading	64	HDC 16B KBU 1PG21G	1657270000
w. threading	79	HDC 40D KBU 1PG21G	1657310000
w. threading	79	HDC 40D KBU 1PG29G	1967670000



Cover



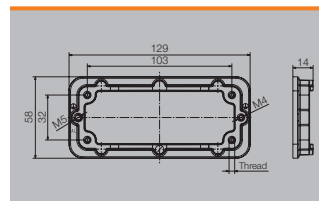
Version	Type	Order No.
For bases (lower parts of housings)	HDC 16B DODQ 4B0	1665260000



Counter-frame



Version	b (mm)	Type	Order No.
	14	HDC IP65 16B FRAME M4	1081570000



RockStar® Housings IP65 / NEMA Type 12, 4X

End locking, lower side

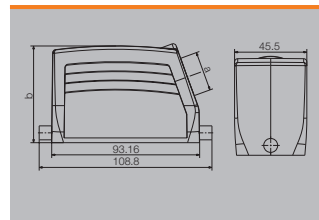
Size 6

Hood

Plug housing, cable entry sideways



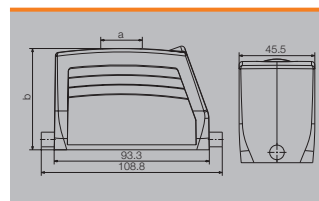
Version	b (mm)	Type	Order No.
w. threading	61	HDC 16B TSLU 1M25G	1788200000
w. threading	76	HDC 40D TSLU 1M25G	1787050000
w. threading	61	HDC 16B TSLU 1M32G	1804640000
w. threading	76	HDC 40D TSLU 1M32G	1787040000
w. threading	76	HDC 40D TSLU 1M40G	1804650000
w. threading	61	HDC 16B TSLU 1PG21G	1657850000
w. threading	76	HDC 40D TSLU 1PG21G	1657890000
w. threading	76	HDC 40D TSLU 1PG29G	1657910000



Plug housing, cable entry at top



Version	b (mm)	Type	Order No.
w. threading	61	HDC 16B TOLU 1M25G	1788230000
w. threading	61	HDC 16B TOLU 1M32G	1804630000
w. threading	76	HDC 40D TOLU 1M32G	1787100000
w. threading	61	HDC 16B TOLU 1PG21G	1657960000
w. threading	76	HDC 40D TOLU 1PG29G	1658020000

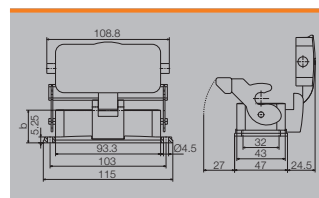


Base

Bulkhead housing



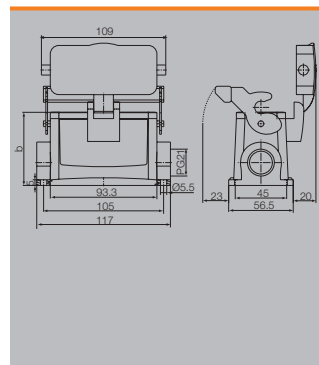
Version	b (mm)	Type	Order No.
	29	HDC 16B ALU	1209700000
	47	HDC 16B ADLU	1210100000



Base housing



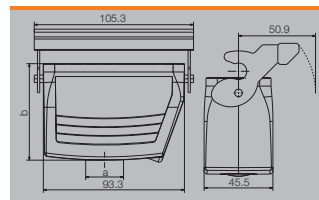
Version	b (mm)	Type	Order No.
w. threading	64	HDC 16B SLU 1M25G	1900170000
w. threading	102	HDC 40D SDLU 1M25G	1903070000
w. threading	64	HDC 16B SLU 2M25G	1788250000
w. threading	82	HDC 16B SDLU 2M25G	1788270000
w. threading	102	HDC 40D SDLU 2M25G	1787180000
w. threading	84	HDC 40D SLU 1M32G	1903110000
w. threading	102	HDC 40D SDLU 1M32G	1903080000
w. threading	84	HDC 40D SLU 2M32G	1804660000
w. threading	102	HDC 40D SDLU 2M32G	1787170000
w. threading	64	HDC 16B SLU 1PG21G	1658110000
w. threading	82	HDC 16B SDLU 1PG21G	1658320000
w. threading	64	HDC 16B SLU 2PG21G	1658120000
w. threading	82	HDC 16B SDLU 2PG21G	1658330000
w. threading	102	HDC 40D SDLU 1PG29G	1658410000



Coupling housing



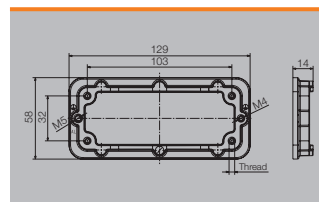
Version	b (mm)	Type	Order No.
w. threading	64	HDC 16B KLU 1M25G	1788290000
w. threading	79	HDC 40D KLU 1M25G	1787220000



Counter-frame



Version	b (mm)	Type	Order No.
	14	HDC IP65 16B FRAME M4	1081570000



Side locking, upper side

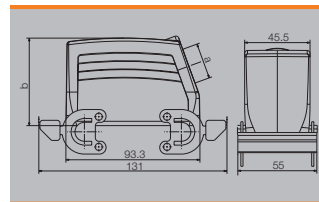
Size 6

Hood

Plug housing, cable entry sideways



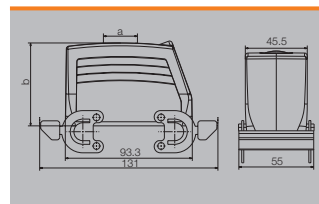
Version	b (mm)	Type	Order No.
w. threading	61	HDC 16B TSBO 1M25G	1788190000
w. threading	76	HDC 40D TSBO 1M25G	1787030000
w. threading	76	HDC 40D TSBO 1M32G	1787020000
w. threading	61	HDC 16B TSBO 1PG21G	1657380000
w. threading	76	HDC 40D TSBO 1PG21G	1657420000



Plug housing, cable entry at top



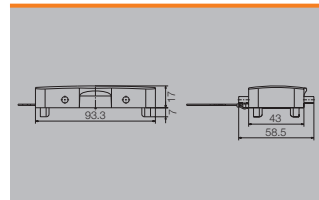
Version	b (mm)	Type	Order No.
w. threading	61	HDC 16B TOBO 1M25G	1788220000
w. threading	61	HDC 16B TOBO 1PG21G	1657490000
w. threading	76	HDC 40D TOBO 1PG29G	1657550000



Cover



Version	Type	Order No.
For hoods (upper parts of housings)	HDC 16B DMOQ 4B0	1665620000

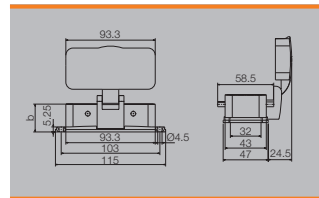


Base

Bulkhead housing



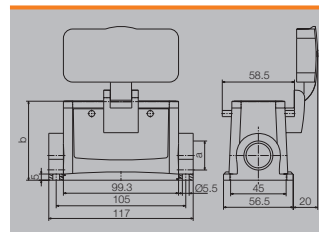
Version	b (mm)	Type	Order No.
	47	HDC 16B ADBO	1209200000



Base housing



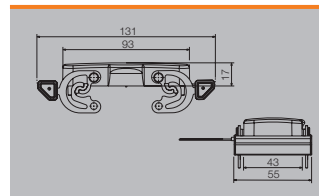
Version	b (mm)	Type	Order No.
w. threading	82	HDC 16B SDBO 1M25G	1900080000
w. threading	82	HDC 16B SDBO 2M25G	1788260000
w. threading	82	HDC 16B SDBO 2PG21G	1657640000



Cover



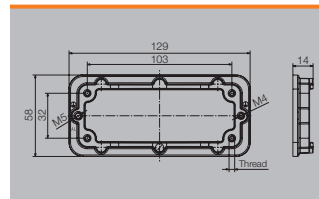
Version	Type	Order No.
For bases (lower parts of housings)	HDC 16B DDDQ 2QB	1009090000



Counter-frame



Version	b (mm)	Type	Order No.
	14	HDC IP65 16B FRAME M4	1081570000



RockStar® Housings IP65 / NEMA Type 12, 4X

Side locking, lower side

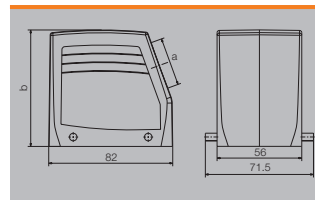
Size 7

Hood

Plug housing, cable entry sideways



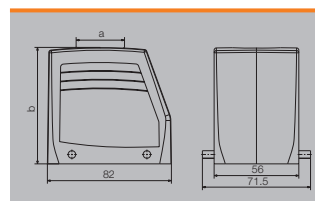
Version	b (mm)	Type	Order No.
w. threading	75	HDC 32A TSBU 1M25G	1787960000
w. threading	75	HDC 32A TSBU 1M32G	1787950000
w. threading	75	HDC 32A TSBU 1PG21G	1665670000
w. threading	75	HDC 32A TSBU 1PG29G	1665690000



Plug housing, cable entry at top



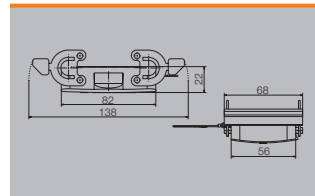
Version	b (mm)	Type	Order No.
w. threading	75	HDC 32A TOBU 1M32G	1787990000
w. threading	75	HDC 32A TOBU 1PG21G	1665790000
w. threading	75	HDC 32A TOBU 1PG29G	1665810000



Cover



Version	Type	Order No.
For hoods (upper parts of housings)	HDC 32A DMOQ 2QB	1665930000

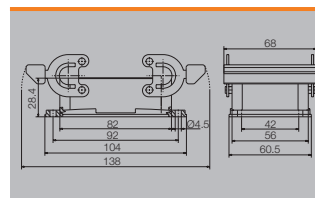


Base

Bulkhead housing



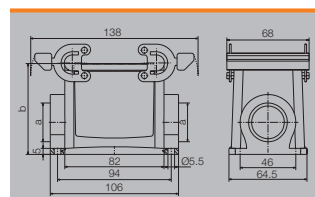
Version	b (mm)	Type	Order No.
	28.4	HDC 32A ABU	1665860000



Base housing



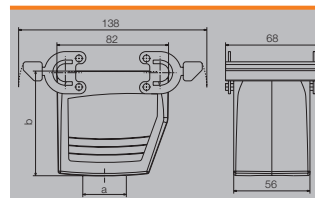
Version	b (mm)	Type	Order No.
w. threading	75	HDC 32A SBU 1M25G	1903870000
w. threading	75	HDC 32A SBU 2M25G	1788040000
w. threading	75	HDC 32A SBU 2PG21G	1665980000
w. threading	75	HDC 32A SBU 1PG29G	1666010000



Coupling housing



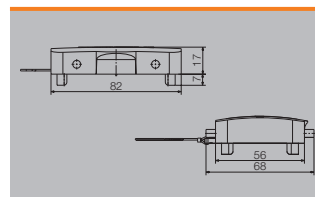
Version	b (mm)	Type	Order No.
w. threading	76.5	HDC 32A KBU 1M25G	1788080000
w. threading	76.5	HDC 32A KBU 1M32G	1788070000



Cover



Version	Type	Order No.
For bases (lower parts of housings)	HDC 32A DODQ 4B0	1665920000



Side locking, upper side

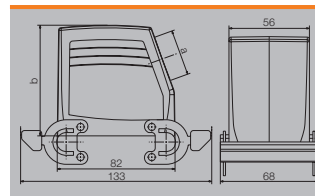
Size 7

Hood

Plug housing, cable entry sideways



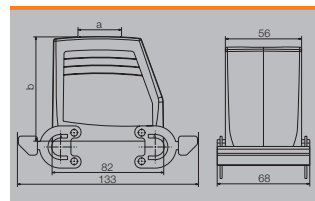
Version	b (mm)	Type	Order No.
w. threading	75	HDC 32A TSBO 1M25G	1787980000
w. threading	75	HDC 32A TSBO 1M32G	1787970000
w. threading	75	HDC 32A TSBO 1PG29G	1666270000



Plug housing, cable entry at top



Version	b (mm)	Type	Order No.
w. threading	77	HDC 32A TOBO 1M32G	1788010000

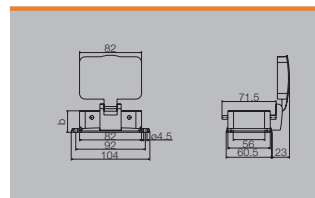


Base

Bulkhead housing



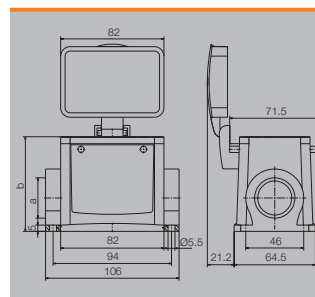
Version	b (mm)	Type	Order No.
	46.4	HDC 32A ADBO	1666440000



Base housing



Version	b (mm)	Type	Order No.
w. threading	97	HDC 32A SDBO 1M25G	1903900000
w. threading	97	HDC 32A SDBO 2M25G	1788060000
w. threading	97	HDC 32A SDBO 1M32G	1903910000
w. threading	97	HDC 32A SDBO 2M32G	1788050000
w. threading	97	HDC 32A SDBO 1PG21G	1666550000
w. threading	97	HDC 32A SDBO 1PG29G	1666590000



RockStar® Housings IP65 / NEMA Type 12, 4X

Side locking, lower side

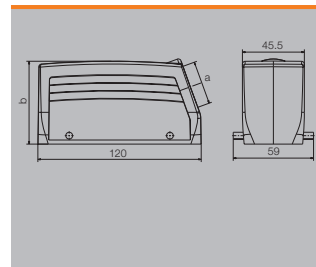
Size 8

Hood

Plug housing, cable entry sideways



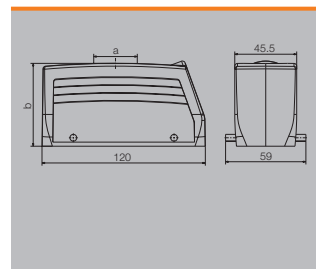
Version	b (mm)	Type	Order No.
w. threading	61	HDC 24B TSBU 1M25G	1787760000
w. threading	76	HDC 64D TSBU 1M25G	1786780000
w. threading	61	HDC 24B TSBU 1M32G	1787750000
w. threading	76	HDC 64D TSBU 1M32G	1786770000
w. threading	61	HDC 24B TSBU 1M40G	1902480000
w. threading	76	HDC 64D TSBU 1M40G	1809630000
w. threading	61	HDC 24B TSBU 1PG21G	1661230000
w. threading	76	HDC 64D TSBU 1PG21G	1661300000
w. threading	61	HDC 24B TSBU 1PG29G	1661240000
w. threading	76	HDC 64D TSBU 1PG29G	1661320000



Plug housing, cable entry at top



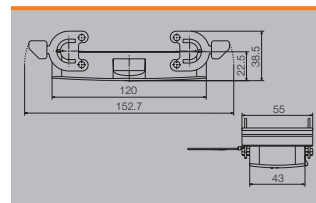
Version	b (mm)	Type	Order No.
w. threading	61	HDC 24B TOBU 1M25G	1787820000
w. threading	61	HDC 24B TOBU 1M32G	1787810000
w. threading	76	HDC 64D TOBU 1M32G	1786830000
w. threading	76	HDC 64D TOBU 2M32G	1009710000
w. threading	61	HDC 24B TOBU 1M40G	1902980000
w. threading	61	HDC 64D TOBU 1M40G	1045560000
w. threading	61	HDC 24B TOBU 1PG21G	1661370000
w. threading	76	HDC 64D TOBU 1PG21G	1661440000
w. threading	61	HDC 24B TOBU 1PG29G	1661380000
w. threading	76	HDC 64D TOBU 1PG29G	1661460000



Cover



Version	Type	Order No.
For hoods (upper parts of housings)	HDC 24B DMDQ 2QB	1665640000

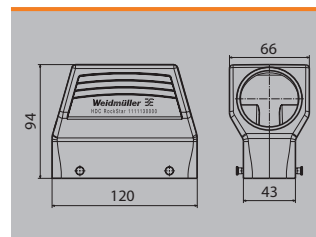


Hood

XXL plug housing, cable entry sideways



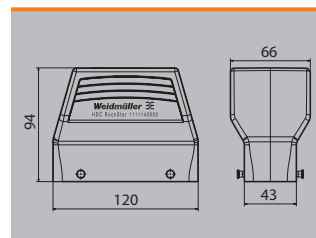
Version	b (mm)	Type	Order No.
w. threading	94	HDC 64D TSBU 1M50G	1111130000



XXL plug housing, cable entry on top



Version	b (mm)	Type	Order No.
w. threading	94	HDC 64D TOBU 1M50G	1111140000



Side locking, lower side

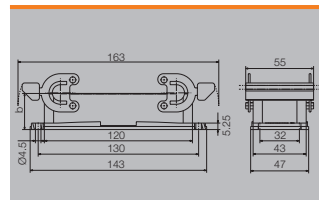
Size 8

Base

Bulkhead housing



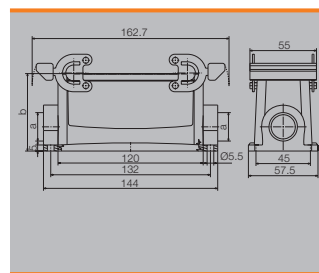
Version	b (mm)	Type	Order No.
	29.3	HDC 24B ABU	121240000



Base housing



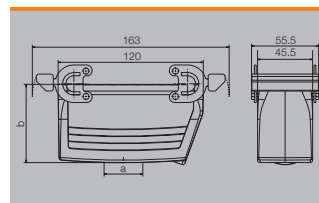
Version	b (mm)	Type	Order No.
w. threading	64	HDC 24B SBU 1M25G	1901150000
w. threading	84	HDC 64D SBU 1M25G	1904340000
w. threading	64	HDC 24B SBU 2M25G	1787870000
w. threading	84	HDC 64D SBU 2M25G	1786890000
w. threading	84	HDC 64D SBU 1M32G	1904350000
w. threading	84	HDC 64D SBU 2M32G	1786880000
w. threading	64	HDC 24B SBU 1PG21G	1661510000
w. threading	64	HDC 24B SBU 2PG21G	1661520000
w. threading	84	HDC 64D SBU 2PG21G	1661590000
w. threading	84	HDC 64D SBU 2PG29G	1661630000



Coupling housing



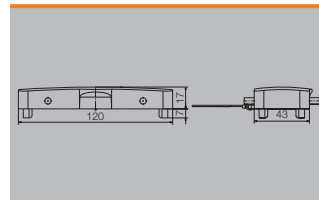
Version	b (mm)	Type	Order No.
w. threading	65	HDC 24B KBU 1M25G	1787920000
w. threading	79	HDC 64D KBU 1M32G	1786960000
w. threading	65	HDC 24B KBU 1PG21G	1661720000
w. threading	65	HDC 24B KBU 1PG29G	1661730000
w. threading	79	HDC 64D KBU 1PG29G	1661810000



Cover



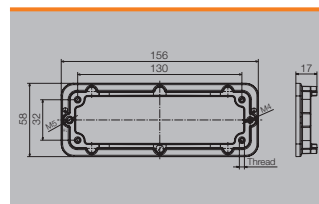
Version	Type	Order No.
For bases (lower parts of housings)	HDC 24B DDDQ 4B0	1665630000



Counter-frame



Version	b (mm)	Type	Order No.
	17	HDC IP65 24B FRAME M4	1081580000



RockStar® Housings IP65 / NEMA Type 12, 4X

End locking, lower side

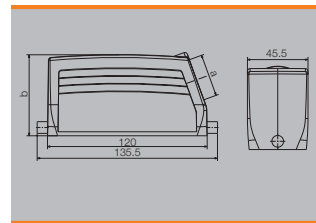
Size 8

Hood

Plug housing, cable entry sideways



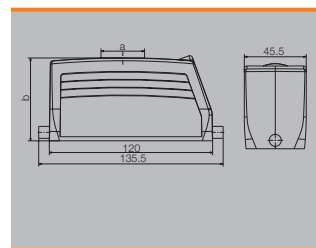
Version	b (mm)	Type	Order No.
w. threading	61	HDC 24B TSLU 1M25G	1787800000
w. threading	61	HDC 24B TSLU 1M32G	1787790000
w. threading	76	HDC 64D TSLU 1M32G	1786810000
w. threading	76	HDC 64D TSLU 1M40G	1804610000
w. threading	61	HDC 24B TSLU 1PG21G	1662390000
w. threading	76	HDC 64D TSLU 1PG21G	1662470000
w. threading	61	HDC 24B TSLU 1PG29G	1662410000
w. threading	76	HDC 64D TSLU 1PG29G	1662490000



Plug housing, cable entry at top



Version	b (mm)	Type	Order No.
w. threading	61	HDC 24B TOLU 1M25G	1787860000
w. threading	92	HDC 64D TOLU 1M25G	1786870000
w. threading	61	HDC 24B TOLU 1M32G	1787850000
w. threading	92	HDC 64D TOLU 1M32G	1786860000
w. threading	92	HDC 64D TOLU 1M40G	1983470000
w. threading	61	HDC 24B TOLU 1PG21G	1662540000
w. threading	92	HDC 64D TOLU 1PG21G	1662610000
w. threading	61	HDC 24B TOLU 1PG29G	1662550000
w. threading	92	HDC 64D TOLU 1PG29G	1662630000

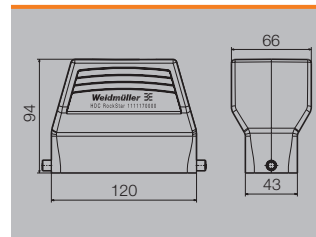


Hood

XXL plug housing, cable entry sideways



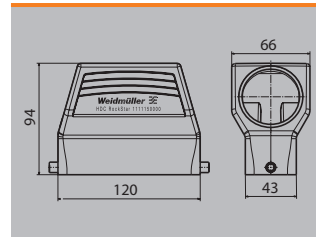
Version	b (mm)	Type	Order No.
w. threading	94	HDC 64D TSLU 1M50G	1111150000



XXL plug housing, cable entry on top



Version	b (mm)	Type	Order No.
w. threading	94	HDC 64D TOLU 1M50G	1111170000



End locking, lower side

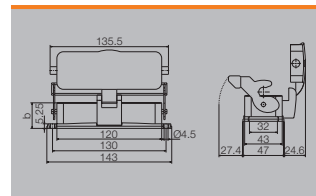
Size 8

Base

Bulkhead housing



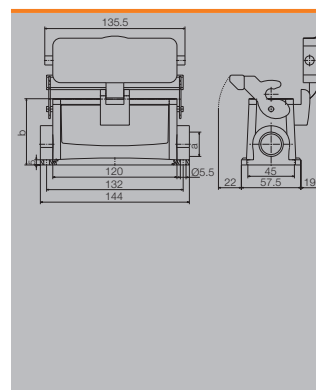
Version	b (mm)	Type	Order No.
	29.3	HDC 24B ALU	1213900000
	47	HDC 24B ADLU	1214300000



Base housing



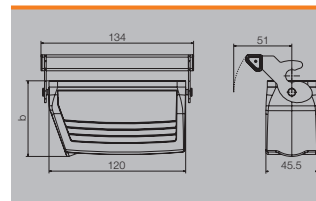
Version	b (mm)	Type	Order No.
w. threading	64	HDC 24B SLU 1M25G	1901560000
w. threading	86	HDC 24B SDLU 1M25G	1901480000
w. threading	84	HDC 64D SLU 1M25G	1904480000
w. threading	106	HDC 64D SDLU 1M25G	1904430000
w. threading	64	HDC 24B SLU 2M25G	1787880000
w. threading	86	HDC 24B SDLU 2M25G	1787900000
w. threading	84	HDC 64D SLU 2M25G	1786910000
w. threading	106	HDC 64D SDLU 2M25G	1786950000
w. threading	84	HDC 64D SLU 1M32G	1904490000
w. threading	106	HDC 64D SDLU 1M32G	1904440000
w. threading	84	HDC 64D SLU 2M32G	1786900000
w. threading	106	HDC 64D SDLU 2M32G	1786940000
w. threading	64	HDC 24B SLU 2PG21G	1662720000
w. threading	86	HDC 24B SDLU 2PG21G	1214500000
w. threading	106	HDC 64D SDLU 2PG29G	1663040000



Coupling housing



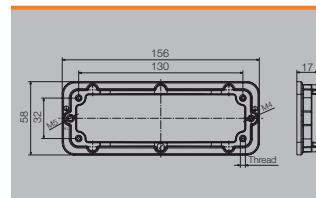
Version	b (mm)	Type	Order No.
w. threading	63.8	HDC 24B KLU 1M25G	1968340000



Counter-frame



Version	b (mm)	Type	Order No.
	17	HDC IP65 24B FRAME M4	1081580000



RockStar® Housings IP65 / NEMA Type 12, 4X

Side locking, upper side

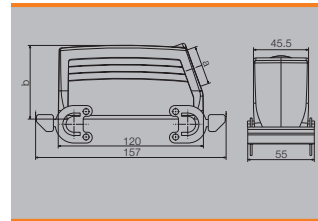
Size 8

Hood

Plug housing, cable entry sideways



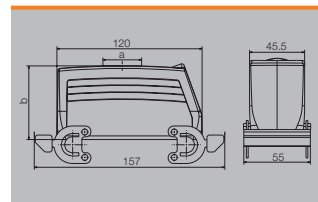
Version	b (mm)	Type	Order No.
w. threading	61	HDC 24B TSBO 1M25G	1787780000
w. threading	76	HDC 64D TSBO 1M25G	1786800000
w. threading	61	HDC 24B TSBO 1M32G	1787770000
w. threading	76	HDC 64D TSBO 1M32G	1786790000
w. threading	61	HDC 24B TSBO 1PG21G	1661860000
w. threading	76	HDC 64D TSBO 1PG21G	1661940000
w. threading	61	HDC 24B TSBO 1PG29G	1661880000
w. threading	76	HDC 64D TSBO 1PG29G	1661960000



Plug housing, cable entry at top



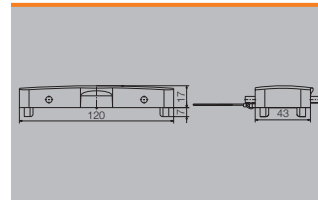
Version	b (mm)	Type	Order No.
w. threading	61	HDC 24B TOBO 1M32G	1787830000
w. threading	76	HDC 64D TOBO 1PG21G	1662080000
w. threading	61	HDC 24B TOBO 1PG29G	1662020000
w. threading	76	HDC 64D TOBO 1PG29G	1662100000



Cover



Version	Type	Order No.
For hoods (upper parts of housings)	HDC 24B DMDQ 4B0	1665650000

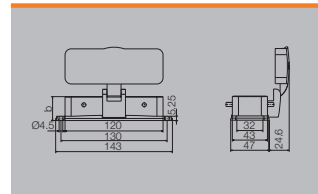


Base

Bulkhead housing



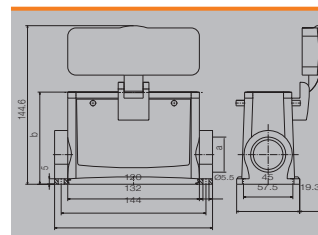
Version	b (mm)	Type	Order No.
	28.8	HDC 24B ABO	1967910000
	51.3	HDC 24B ADBO	1213300000



Base housing



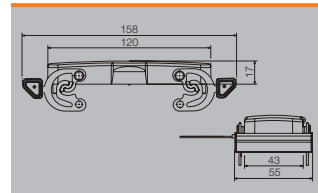
Version	b (mm)	Type	Order No.
w. threading	106	HDC 64D SDBO 1M32G	1904400000
w. threading	106	HDC 64D SDBO 2M32G	1786920000
w. threading	86	HDC 24B SDBO 2PG21G	1662180000
w. threading	106	HDC 64D SDBO 1PG29G	1662280000



Cover



Version	Type	Order No.
For bases (lower parts of housings)	HDC 24B DDDQ 20B	1009100000



Central-locking clamp

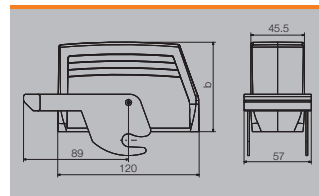
Size 8

Hood

Plug housing, cable entry sideways



Version	b (mm)	Type	Order No.
w. threading	76	HDC 64D TSZO 1M40G	1904690000
w. threading	76	HDC 64D TSZO 1PG21G	1663370000
w. threading	76	HDC 64D TSZO 1PG29G	1663390000

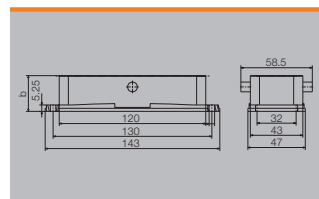


Base

Bulkhead housing



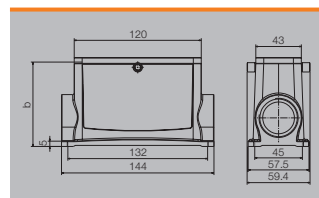
Version	b (mm)	Type	Order No.
	29.3	HDC 24B AZO	1611350000



Base housing



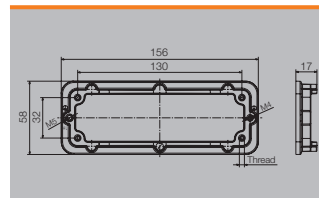
Version	b (mm)	Type	Order No.
w. threading	84	HDC 64D SZO 2PG29G	1968370000



Counter-frame



Version	b (mm)	Type	Order No.
	17	HDC IP65 24B FRAME M4	1081580000



RockStar® Housings IP65 / NEMA Type 12, 4X

End locking, lower side

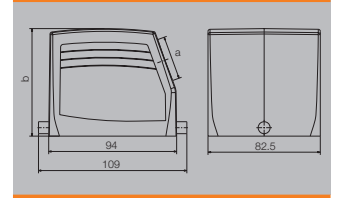
Size 9

Hood

Plug housing, cable entry sideways



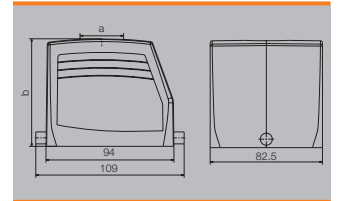
Version	b (mm)	Type	Order No.
w. threading	79	HDC 48A TSLU 1M32G	1788550000
w. threading	79	HDC 48A TSLU 1PG29G	1666710000



Plug housing, cable entry at top



Version	b (mm)	Type	Order No.
w. threading	79	HDC 48A TOLU 1M32G	1788560000
w. threading	79	HDC 48A TOLU 1PG29G	1666730000

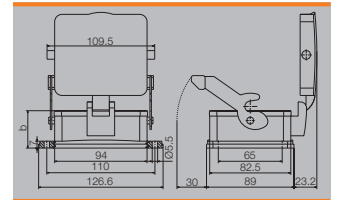


Base

Bulkhead housing



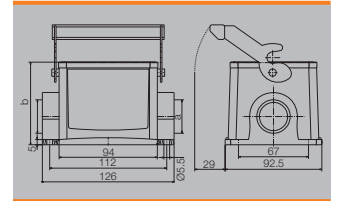
Version	b (mm)	Type	Order No.
	38	HDC 48A ALU	1666740000
	55	HDC 48A ADLU	1666750000



Base housing



Version	b (mm)	Type	Order No.
w. threading	79	HDC 48A SLU 2M32G	1788570000
w. threading	79	HDC 48A SLU 1PG29G	1666770000
w. threading	96	HDC 48A SDLU 1PG29G	1666810000



Side locking, lower side

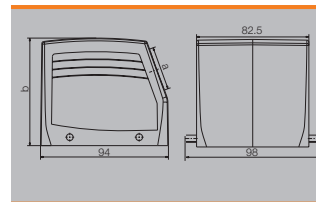
Size 10

Hood

Plug housing, cable entry sideways



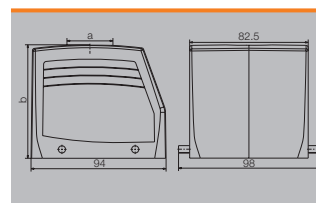
Version	b (mm)	Type	Order No.
w. threading	79	HDC 32B TSBU 1M32G	1788400000
w. threading	79	HDC 32B TSBU 1PG29G	1666840000



Plug housing, cable entry at top



Version	b (mm)	Type	Order No.
w. threading	79	HDC 32B TOBU 1M32G	1788430000
w. threading	79	HDC 32B TOBU 1PG29G	1666870000

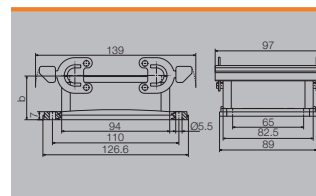


Base

Bulkhead housing



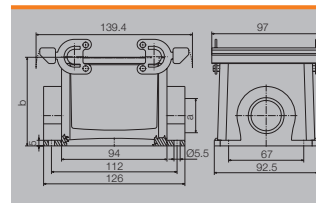
Version	b (mm)	Type	Order No.
	38	HDC 32B ABU	1217800000



Base housing



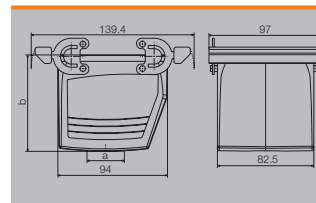
Version	b (mm)	Type	Order No.
w. threading	79	HDC 32B SBU 1M32G	1902600000
w. threading	79	HDC 32B SBU 2M32G	1788460000
w. threading	79	HDC 32B SBU 2PG29G	1666920000
w. threading	79	HDC 32B SBU 1PG36G	1902610000
w. threading	79	HDC 32B SBU 2PG36G	1902640000



Coupling housing



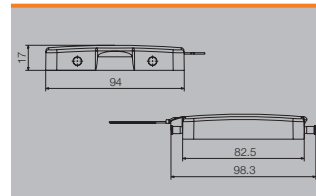
Version	b (mm)	Type	Order No.
w. threading	83	HDC 32B KBU 1M40G	1902730000
w. threading	83	HDC 32B KBU 1PG29G	1902740000
w. threading	83	HDC 32B KBU 1PG36G	1902750000



Cover



Version	Type	Order No.
For bases (lower parts of housings)	HDC 32B D00Q 480	1165790000



RockStar® Housings IP65 / NEMA Type 12, 4X

End locking, lower side

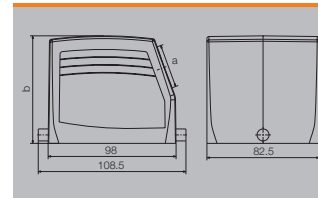
Size 10

Hood

Plug housing, cable entry sideways



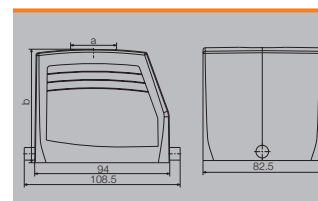
Version	b (mm)	Type	Order No.
w. threading	79	HDC 32B TSLU 1M32G	1788420000
w. threading	79	HDC 32B TSLU 1PG29G	1667120000



Plug housing, cable entry at top



Version	b (mm)	Type	Order No.
w. threading	79	HDC 32B TOLU 1M32G	1788450000
w. threading	79	HDC 32B TOLU 1PG29G	1219300000

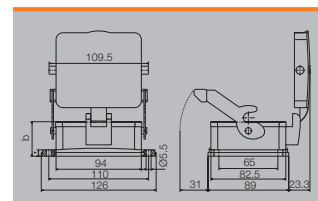


Base

Bulkhead housing



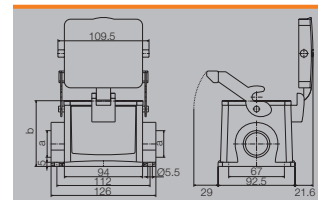
Version	b (mm)	Type	Order No.
	38	HDC 32B ALU	1219500000
	55	HDC 32B ADLU	1219800000



Base housing



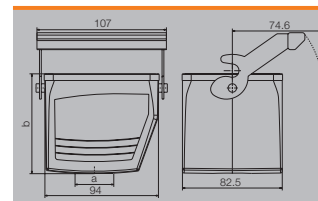
Version	b (mm)	Type	Order No.
w. threading	79	HDC 32B SLU 1M32G	1902670000
w. threading	96	HDC 32B SDLU 1M32G	1902650000
w. threading	79	HDC 32B SLU 2M32G	1788470000
w. threading	96	HDC 32B SDLU 2M32G	1788490000



Coupling housing



Version	b (mm)	Type	Order No.
w. threading	83	HDC 32B KLU 1M32G	1788500000



Side locking, upper side

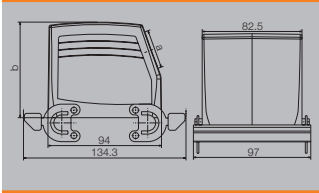
Size 10

Hood

Plug housing, cable entry sideways



Version	b (mm)	Type	Order No.
w. threading	79	HDC 32B TSBO 1M32G	1788410000

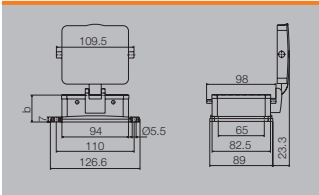


Base

Bulkhead housing



Version	b (mm)	Type	Order No.
	55	HDC 32B ADBO	1218800000



RockStar® Housings IP65 / NEMA Type 12, 4X

End locking, lower side

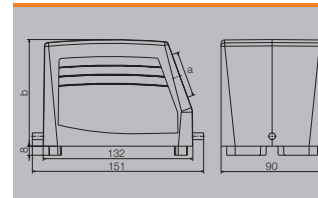
Size 12

Hood

Plug housing, cable entry sideways



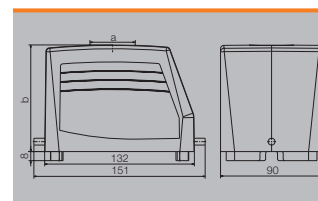
Version	b (mm)	Type	Order No.
w. threading	94	HDC 48B TSLU 1M32G	1788320000
w. threading	94	HDC 48B TSLU 1M40G	1788310000
w. threading	94	HDC 48B TSLU 1M50G	1788300000
w. threading	94	HDC 48B TSLU 1PG29G	1650850000
w. threading	94	HDC 48B TSLU 1PG36G	1650860000
w. threading	94	HDC 48B TSLU 1PG42G	1670470000



Plug housing, cable entry at top



Version	b (mm)	Type	Order No.
w. threading	94	HDC 48B TOLU 1M32G	1788350000
w. threading	94	HDC 48B TOLU 1M40G	1788340000
w. threading	94	HDC 48B TOLU 1M50G	1788330000
w. threading	94	HDC 48B TOLU 1PG29G	1650980000
w. threading	94	HDC 48B TOLU 1PG36G	1651000000

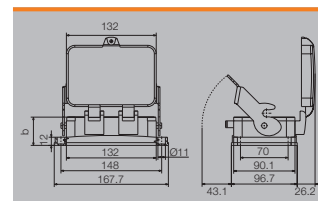


Base

Bulkhead housing



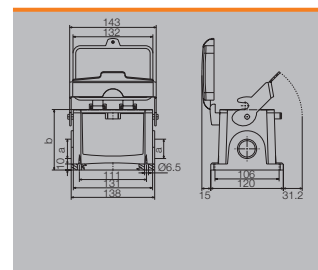
Version	b (mm)	Type	Order No.
	62	HDC 48B ADLU	1222900000
	41.5	HDC 48B ALU	1295600000



Base housing



Version	b (mm)	Type	Order No.
w. threading	100	HDC 48B SLU 1M32G	1904190000
w. threading	120	HDC 48B SDLU 1M32G	1904150000
w. threading	100	HDC 48B SLU 2M32G	1788370000
w. threading	120	HDC 48B SDLU 2M32G	1788390000
w. threading	100	HDC 48B SLU 2M40G	1788360000
w. threading	120	HDC 48B SDLU 2M40G	1983500000
w. threading	120	HDC 48B SDLU 2M50G	1983510000
w. threading	100	HDC 48B SLU 1PG29G	1651100000
w. threading	120	HDC 48B SDLU 1PG29G	1799810000
w. threading	120	HDC 48B SDLU 2PG29G	1667560000



RockStar® Housings IP68 / EMC

RockStar® Housings IP68 / EMC	Introduction	F.2
	RockStar® Housings IP68 / EMC	F.4
	Size 1 - 8	

RockStar® Housings IP68 / EMC

The RockStar® IP68 and IP69K housings are resistant to sea water and high impacts. They are designed for use under extreme environmental conditions and comply with the high vibration requirements of DIN EN 61373 Cat 2 (pivot mounting). These housings deliver a fail-safe and maintenance-free solution when using heavy-duty connectors in transportation, traffic engineering and energy technology. They are also suitable for applications subject to extreme climatic conditions.

Weidmüller has designed the RockStar® IP68 housings with additional built-in features that ensure outstanding EMC. The bulkhead or base housing, combined with the plug housing, produces a labyrinth structure which ensures high shield attenuation.

RockStar® IP68 housings are available in sizes 1, 3, 4, 6, 8 and 8 XXL; they can be combined with all fixed-pole modular inserts.

F



Impact resistant

The optimised construction provides high impact resistance and therefore, a long product lifespan



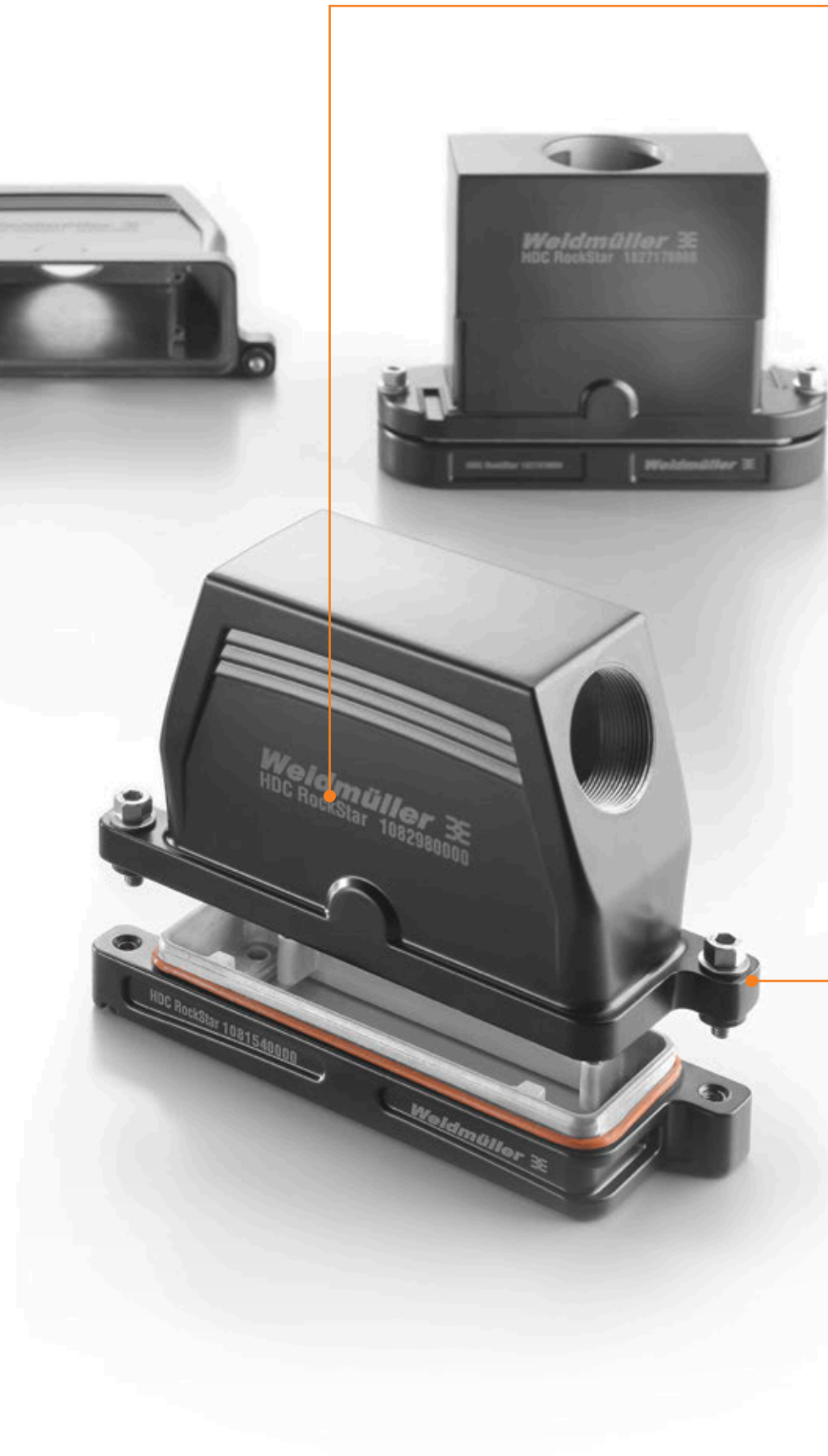
Practical

Laser labelling for permanent identification and faster allocation



Simple

A screw lock with internal and external hex drive is used for the housing's closure mechanism.



RockStar® Housings IP68 / EMC

Screw interlock

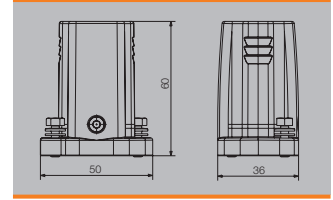
Size 1

Hood

Plug housing, cable entry at top



Version	b (mm)	Type	Order No.
w. threading		HDC IP68 04A TOS 1M20	1082390000
w. threading		HDC IP68 04A TOS 1M25G	1513390000
w. threading		HDC IP68 04A TOS 1PG13	1082410000

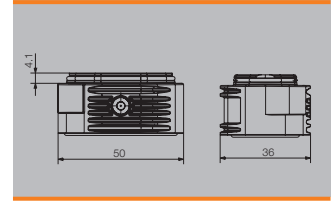


Base

Bulkhead housing



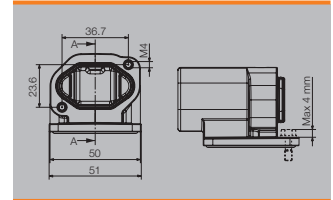
Version	b (mm)	Type	Order No.
		HDC IP68 04A AS	1081470000



Angled bulkhead housing



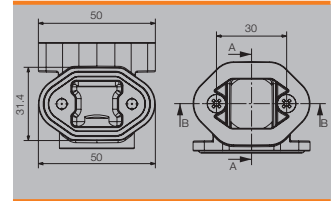
Version	b (mm)	Type	Order No.
w. threading		HDC IP68 04A AWS 1M20	1081480000
		HDC IP68 04A AWS	1081490000
w. threading		HDC IP68 04A AWS 1M25	2430170000



Adapter



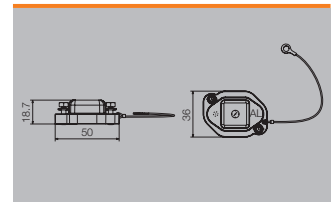
Version	b (mm)	Type	Order No.
		HDC IP68 04A ADS	1083130000
w. threading		HDC IP68 04A ADS 1PG13	1083120000



Cover



Version	Type	Order No.
	HDC IP68 04A COVER	1083110000



Screw interlock

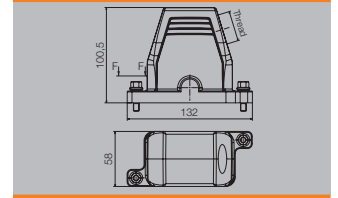
Size 3

Hood

Plug housing, cable entry sideways



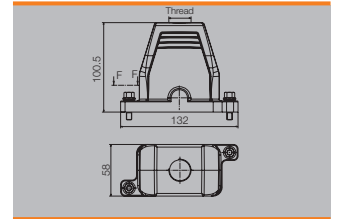
Version	b (mm)	Type	Order No.
w. threading		HDC IP68 06B TSS 1M20	1082510000
w. threading		HDC IP68 06B TSS 1M25	1082530000
w. threading		HDC IP68 06B TSS 1M32	1082550000
w. threading		HDC IP68 06B TSS 1PG16	1082560000
w. threading		HDC IP68 06B TSS 1PG21	1082570000



Plug housing, cable entry at top



Version	b (mm)	Type	Order No.
w. threading		HDC IP68 06B TOS 1M20	1082420000
w. threading		HDC IP68 06B TOS 1M25	1082430000
w. threading		HDC IP68 06B TOS 1M32	1082440000
w. threading		HDC IP68 06B TOS 1M40	1082450000
w. threading		HDC IP68 06B TOS 1PG16	1082460000
w. threading		HDC IP68 06B TOS 1PG21	1082470000
w. threading		HDC IP68 06B TOS 1PG29	1082480000

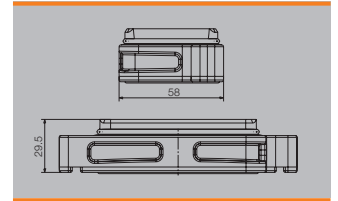


Base

Bulkhead housing



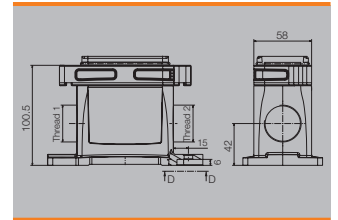
Version	b (mm)	Type	Order No.
		HDC IP68 06B AS	1081510000



Base housing



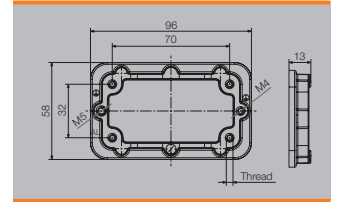
Version	b (mm)	Type	Order No.
w. threading		HDC IP68 06B SS 1M20	1081180000
w. threading		HDC IP68 06B SS 2M20	1081250000
w. threading		HDC IP68 06B SS 1M25	1081190000
w. threading		HDC IP68 06B SS 2M25	1081240000
w. threading		HDC IP68 06B SS 1M32	1081210000
w. threading		HDC IP68 06B SS 2M32	1081220000
w. threading		HDC IP68 06B SS 1PG29	1081230000
w. threading		HDC IP68 06B SS 2PG29	1081260000



Counter-frame



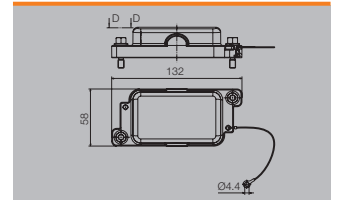
Version	b (mm)	Type	Order No.
		HDC IP68 06B FRAME M6	1110890000



Cover



Version	Type	Order No.
	HDC IP68 06B COVER	1083060000



Screw interlock

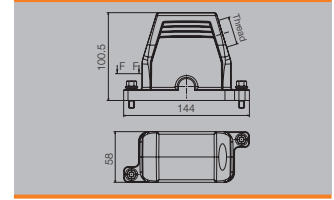
Size 4

Hood

Plug housing, cable entry sideways



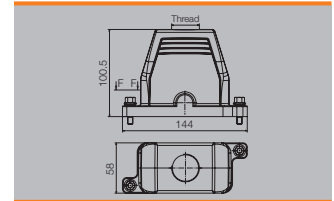
Version	b (mm)	Type	Order No.
w. threading		HDC IP68 10B TSS 1M20	1082690000
w. threading		HDC IP68 10B TSS 1M25	1082650000
w. threading		HDC IP68 10B TSS 1M32	1082660000
w. threading		HDC IP68 10B TSS 1PG21	1082670000
w. threading		HDC IP68 10B TSS 1PG29	1082680000



Plug housing, cable entry at top



Version	b (mm)	Type	Order No.
w. threading		HDC IP68 10B TOS 1M20	1082580000
w. threading		HDC IP68 10B TOS 1M25	1082590000
w. threading		HDC IP68 10B TOS 1M32	1082610000
w. threading		HDC IP68 10B TOS 1PG16	1082620000
w. threading		HDC IP68 10B TOS 1PG21	1082630000
w. threading		HDC IP68 10B TOS 1PG29	1082640000

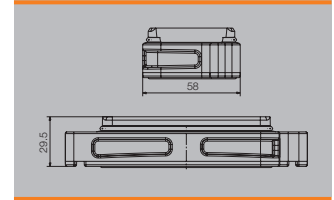


Base

Bulkhead housing



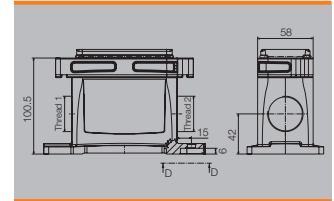
Version	b (mm)	Type	Order No.
		HDC IP68 10B AS	1081520000



Base housing



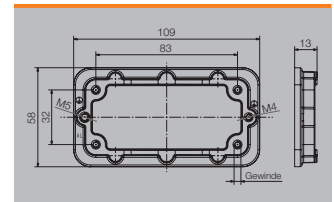
Version	b (mm)	Type	Order No.
w. threading		HDC IP68 10B SS 1M20	1081270000
w. threading		HDC IP68 10B SS 2M20	1081310000
w. threading		HDC IP68 10B SS 1M32	1081280000
w. threading		HDC IP68 10B SS 2M32	1081320000
w. threading		HDC IP68 10B SS 1PG29	1081290000
w. threading		HDC IP68 10B SS 2PG29	1081330000



Counter-frame



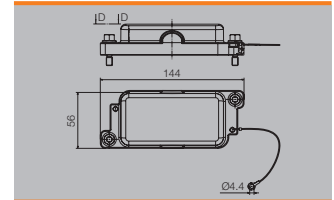
Version	b (mm)	Type	Order No.
		HDC IP68 10B FRAME M6	1110900000



Cover



Version	Type	Order No.
	HDC IP68 10B COVER	1083070000



Screw interlock

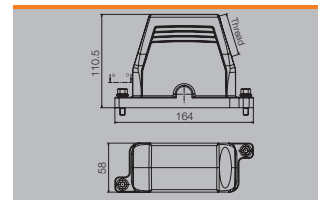
Size 6

Hood

Plug housing, cable entry sideways



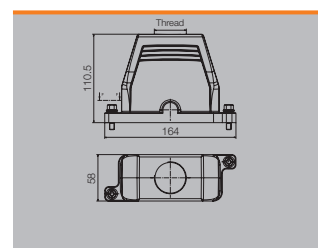
Version	b (mm)	Type	Order No.
w. threading	164	HDC IP68 16B TSS 1M32	1082800000
w. threading	164	HDC IP68 16B TSS 1M40	1082810000
w. threading	164	HDC IP68 16B TSS 1M50	1082820000
w. threading	164	HDC IP68 16B TSS 1PG21	1082830000
w. threading	164	HDC IP68 16B TSS 1PG29	1082840000
w. threading	164	HDC IP68 16B TSS 1PG36	1082850000



Plug housing, cable entry at top



Version	b (mm)	Type	Order No.
w. threading	164	HDC IP68 16B TOS 1M25	1082700000
w. threading	164	HDC IP68 16B TOS 2M25	1082780000
w. threading	164	HDC IP68 16B TOS 1M32	1082710000
w. threading	164	HDC IP68 16B TOS 1M40	1082720000
w. threading	164	HDC IP68 16B TOS 1M50	1082730000
w. threading	164	HDC IP68 16B TOS 1PG21	1082750000
w. threading	164	HDC IP68 16B TOS 2PG21	1082740000
w. threading	164	HDC IP68 16B TOS 1PG29	1082760000
w. threading	164	HDC IP68 16B TOS 1PG36	1082770000

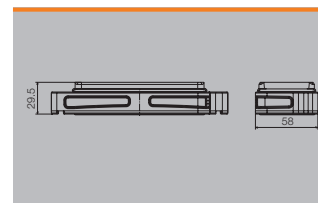


Base

Bulkhead housing



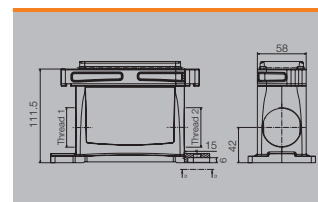
Version	b (mm)	Type	Order No.
	21	HDC IP68 16B AS	1081530000



Base housing



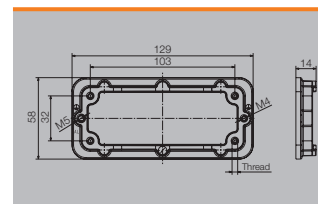
Version	b (mm)	Type	Order No.
	111.5	HDC IP68 16B SS	1081340000
w. threading	111.5	HDC IP68 16B SS 1M32	1081350000
w. threading	111.5	HDC IP68 16B SS 2M32	1081390000
w. threading	111.5	HDC IP68 16B SS 1M40	1081360000
w. threading	111.5	HDC IP68 16B SS 2M40	1081370000
w. threading	111.5	HDC IP68 16B SS 1PG36	1081380000



Counter-frame



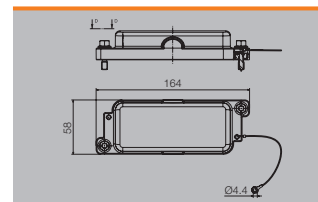
Version	b (mm)	Type	Order No.
	14	HDC IP68 16B FRAME M6	1110910000



Cover



Version	Type	Order No.
	HDC IP68 16B COVER	1083080000



Screw interlock

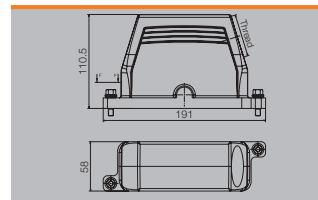
Size 8

Hood

Plug housing, cable entry sideways



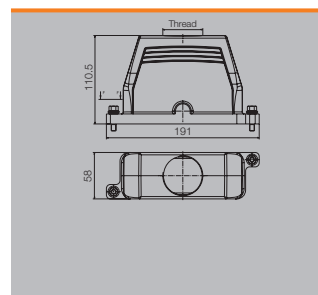
Version	b (mm)	Type	Order No.
w. threading	110.5	HDC IP68 24B TSS 1M32	1082970000
w. threading	110.5	HDC IP68 24B TSS 1M40	1082980000
w. threading	110.5	HDC IP68 24B TSS 1M50	1082990000
w. threading	110.5	HDC IP68 24B TSS 1PG29	1083000000
w. threading	110.5	HDC IP68 24B TSS 1PG36	1083010000



Plug housing, cable entry at top



Version	b (mm)	Type	Order No.
w. threading	110.5	HDC IP68 24B TOS 3M25	1082960000
w. threading	110.5	HDC IP68 24B TOS 1M32	1082860000
w. threading	110.5	HDC IP68 24B TOS 2M32	1082940000
w. threading	110.5	HDC IP68 24B TOS 1M40	1082870000
w. threading	110.5	HDC IP68 24B TOS 2M40	1082950000
w. threading	110.5	HDC IP68 24B TOS 1M50	1082880000
w. threading	110.5	HDC IP68 24B TOS 1PG21	1082900000
w. threading	110.5	HDC IP68 24B TOS 1PG29	1082920000
w. threading	110.5	HDC IP68 24B TOS 2PG29	1082910000
w. threading	110.5	HDC IP68 24B TOS 1PG36	1082930000
w. threading	110.5	HDC IP68 24B TOS 2M40 TSS 1M32	1289130000



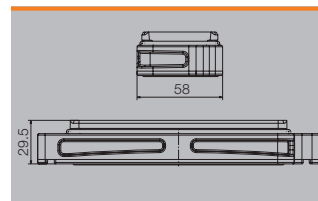
F

Base

Bulkhead housing



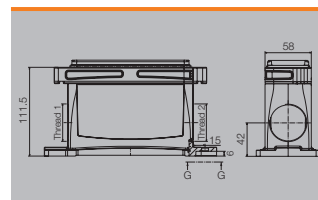
Version	b (mm)	Type	Order No.
	29.5	HDC IP68 24B AS	1081540000



Base housing



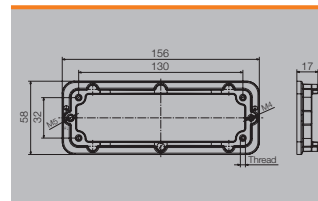
Version	b (mm)	Type	Order No.
	111.5	HDC IP68 24B SS	1081450000
w. threading	111.5	HDC IP68 24B SS 1M40	1081410000
w. threading	111.5	HDC IP68 24B SS 2M40	1081420000
w. threading	111.5	HDC IP68 24B SS 1PG36	1081430000
w. threading	111.5	HDC IP68 24B SS 2PG36	1081440000



Counter-frame



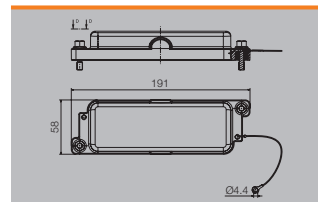
Version	b (mm)	Type	Order No.
	17	HDC IP68 24B FRAME M6	1110920000



Cover



Version	Type	Order No.
	HDC IP68 24B COVER	1083090000



Screw interlock

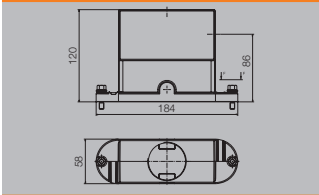
Size 8, XXL

Hood

Plug housing, cable entry sideways



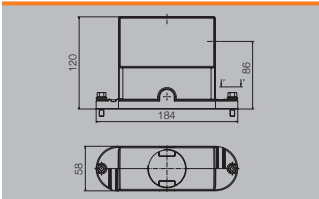
Version	b (mm)	Type	Order No.
w. threading	120	HDC HB 24 TEK TSS1xM40G	100092000 1
w. threading	120	HDC HB 24 TEK TSS1xM50G	1827160000



Plug housing, cable entry at top



Version	b (mm)	Type	Order No.
w. threading	120	HDC HB 24 TEK TOS1xM50G	1827170000

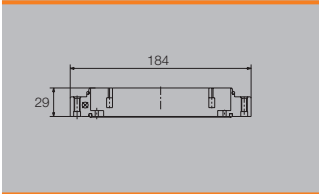


Base

Bulkhead housing



Version	b (mm)	Type	Order No.
	29	HDC HB 24 TEK AS M4	1827470000

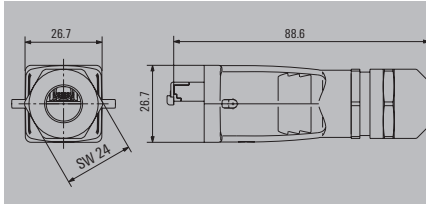


RockStar® Data Connectors

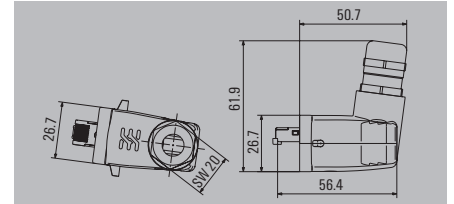
RockStar® Data Connectors	IE-LINE Variant 5 RJ45	G.2
	4 - 8 poles	

RockStar® heavy-duty connector plug V5 - RJ45

Straight V5 - RJ45 plug



V5-RJ45 plug, angled



Technical data

Category
Protection degree
Housing main material
Contact surface
Sheath diameter, min. / max.
Plugging cycles
Ambient temperature (operational)
Connector standard
Approvals

Note

Cat.6_A / Class E_A (ISO/IEC 11801 2010)
IP67
diecast aluminium
Gold over nickel
5 mm / 12 mm
750
-40 °C...70 °C
IEC 61076-3-106 Var. 5, IEC 60603-7-51
CULUS; EAC

Cat.6_A / Class E_A (ISO/IEC 11801 2010)
IP67
diecast aluminium
Gold over nickel
5 mm / 10 mm
750
-40 °C...70 °C
IEC 61076-3-106 Var. 5, IEC 60603-7-51
EAC

Other approvals for individual parts of the set available

Ordering data - Sets

RJ45 tool-free. AWG 26-22. TIA-A/B-PROFINET
RJ45 tool-free. AWG 26-22. TIA-B
RJ45 Crimp. AWG 27-24

Note

Type	Qty.	Order No.
IE-PS-V05M-RJ45-FH	10	1963200000
IE-PS-V05M-RJ45-FH-B	10	1271250000
IE-PS-V05M-RJ45-TH	10	1963110000

Type	Qty.	Order No.
IE-PS-V05M-A-RJ45-FH	10	1077300000

Ordering data - Empty housings

Note

Type	Qty.	Order No.
IE-PH-V05M	10	1962540000

Type	Qty.	Order No.

Accessories

Dust protection cap



Plug housing protective cap
Spare insert holder

Type	Qty.	Order No.
IE-PP-V05M	1	1968920000
IE-PH-AD-V05M-RJ45	1	1993540000

Type	Qty.	Order No.
IE-PP-V05M	1	1968920000

Note

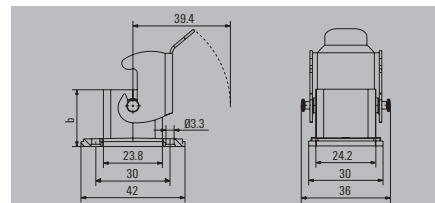
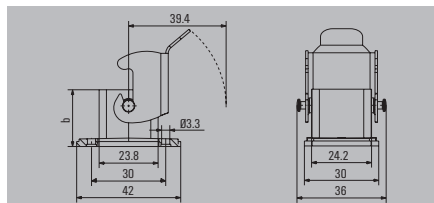
Plug inserts can also be ordered separately. Refer to Inserts.

Plug inserts can also be ordered separately. Refer to Inserts.

RockStar® heavy-duty connector flange
V5 - RJ45

Module

Coupling



Technical data

Protection degree
Housing main material
Contact surface
Plugging cycles
Ambient temperature (operational)
Connector standard
Connection cross-section, flexible, min. / max.
Connection diameter, flexible, min. / max.
Connection cross-section, solid, min. / max.
Connection diameter, solid, min. / max.
Approvals
Note

IP67
diecast aluminium
Gold over nickel
750
-40 °C...70 °C
IEC 61076-3-106 Var. 5, IEC 60603-7-51
AWG 26 / AWG 22
0.48 mm / 0.76 mm
AWG 24 / AWG 22
0.4 mm / 0.64 mm
CULUS
Note

IP67
diecast aluminium
Gold over nickel
750
-40 °C...70 °C
IEC 61076-3-106 Var. 5, IEC 60603-7-51
CULUS
Note

Ordering data - Sets

TIA-A Cat. 6 _A
PROFINET Cat. 5
Coupling
Note

Type	Qty.	Order No.
IE-BS-V05M-RJ45-FJ-A	10	1963460000
IE-BS-V05M-RJ45-FJ-P	10	1963700000
Note		

Type	Qty.	Order No.
IE-BS-V05M-RJ45-C	10	1963510000
Note		

Ordering data - Empty housings

Note

Type	Qty.	Order No.
IE-BH-V05M	10	1963530000
Note		

Type	Qty.	Order No.
IE-BH-V05M	10	1963530000
Note		

Accessories

Dust protection cap
Flange-mounted housing protective cap

Note

Type	Qty.	Order No.
IE-BP-V05M	10	1968930000
Note		

Type	Qty.	Order No.
IE-BP-V05M	10	1968930000
Note		

Note

Plug inserts can also be ordered separately. Refer to Inserts.

Plug inserts can also be ordered separately. Refer to Inserts.

IE-LINE Variant 5

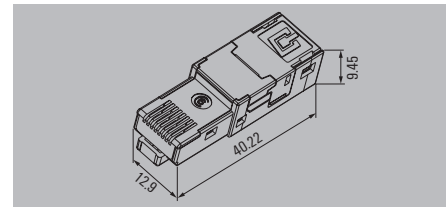
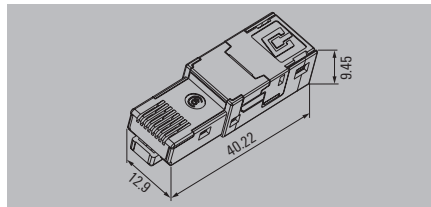
RJ45 plug inserts, tool-free

- Cat. 6_A
- IP20
- For housing variants 1, 4, 5 and 14

8-wire



4-wire



Technical data

Category
Protection degree
Plugging cycles
Shielding
Housing main material
Contact material
Contact surface
Connection cross-section, flexible, min. / max.
Connection diameter, flexible, min. / max.
Connection cross-section, solid, min. / max.
Connection diameter, solid, min. / max.
Wire connection cross-section, finely stranded
Insulation diameter, min. / max.
Humidity
Ambient temperature (operational)
Insulation resistance
Contact resistance
Dielectric strength, contact / contact
Dielectric strength, contact / shield
Current-carrying capacity at 50 °C
PoE / PoE+
Speed
Connector standard
Approvals

Cat.6 _x / Class E _x (ISO/IEC 11801 2010)
IP67 with housing
750
360° all-round enclosure
Zinc diecast
Gold over nickel, Au ≥ 0.8 µm
AWG 26 / AWG 22
0.48 mm / 0.76 mm
AWG 24 / AWG 22
0.4 mm / 0.64 mm
Approval of the cable by Weidmüller necessary
0.85 mm...1.6 mm
-40 °C...70 °C
500 MΩ
≤ 20 mΩ
≥ 1000 V DC
≥ 1500 V DC
1 A
conforming to IEEE 802.3at
10 GBit/s
IEC 60603-7-51
CULUS; EAC

Cat.5 (ISO/IEC 11801)
IP67 with housing
750
360° all-round enclosure
Zinc diecast
Gold over nickel, Au ≥ 0.8 µm
AWG 26 / AWG 22
AWG 24 / AWG 22
0.4 mm / 0.64 mm
Approval of the cable by Weidmüller necessary
0.85 mm...1.6 mm
-40 °C...70 °C
500 MΩ
≤ 20 mΩ
≥ 1000 V DC
≥ 1500 V DC
1 A
conforming to IEEE 802.3at
100 MBit/s
IEC 60603-7-51
CULUS; EAC

Note

Approvals available on request

Ordering data

tool-free
TIA-A/B/PROFINET
TIA-A
TIA-B
PROFINET

Note

Type	Qty.	Order No.
IE-PI-RJ45-FH	10	1962730000
IE-PI-RJ45-FH-A	10	1132010000
IE-PI-RJ45-FH-B	10	1132020000

Type	Qty.	Order No.
IE-PI-RJ45-FH-P	10	1132030000

Accessories

Tools
Optional pressing tool



Type	Qty.	Order No.
PWZ RJ45	1	1118040000

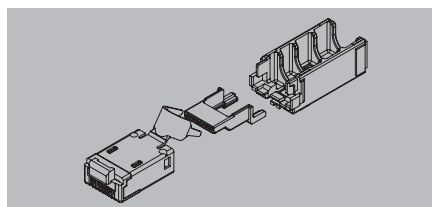
Type	Qty.	Order No.
PWZ RJ45	1	1118040000

Note

RJ45 plug inserts, crimp

- Cat. 6_A
- IP20
- For housing variants 1, 4, 5 and 14

8-wire




Technical data

Category	Cat.6 _A / Class E _A (ISO/IEC 11801 2010)
Protection degree	IP67 with housing
Plugging cycles	750
Shielding	360° all-round enclosure
Housing main material	Brass, PC UL 94 V0
Contact material	Phosphorus bronze
Contact surface	Gold over nickel, Au ≥ 0.8 μm, Ni 2.54 μm
Connection cross-section, flexible, min. / max.	AWG 27 / AWG 24
Connection diameter, flexible, min. / max.	0.46 mm / 0.61 mm
Connection cross-section, solid, min. / max.	AWG 24 / AWG 24
Connection diameter, solid, min. / max.	0.4 mm / 0.51 mm
Insulation diameter, min. / max.	0.85 mm...1.05 mm
Humidity	0...93 % rel. humidity
Ambient temperature (operational)	-40 °C...70 °C
Insulation resistance	500 MΩ
Contact resistance	≤ 20 mΩ
Dielectric strength, contact / contact	≥ 1000 V DC
Dielectric strength, contact / shield	≥ 1500 V DC
Current-carrying capacity at 50 °C	1 A
PoE / PoE+	conforming to IEEE 802.3af
Speed	
Connector standard	IEC 60603-7-51
Approvals	CURUS; EAC
Note	

Ordering data

Crimp	Type	Qty.	Order No.
	IE-PI-RJ45-TH	10	1962720000
Note			

Accessories

Tools	Type	Qty.	Order No.
 Crimping tool	TT 8 RS MP 8	1	9202800000

Note

IE-LINE Variant 5

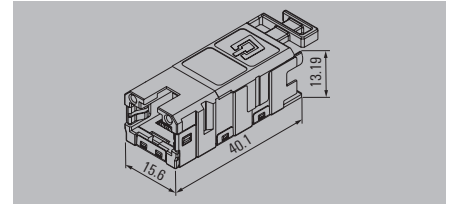
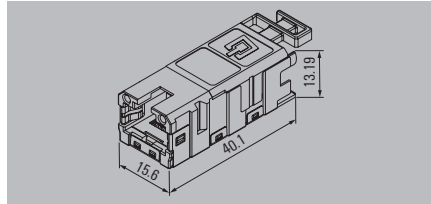
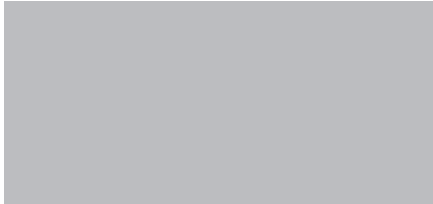
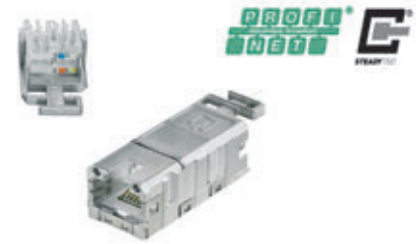
RJ45 flange inserts, module

- Cat. 6_A
- IP20
- For housing variants 1, 4, 5, 14 and for FrontCom®

8-wire



4-wire



Technical data

Category
Protection degree
Plugging cycles
Shielding
Housing main material
Contact surface
Connection cross-section, flexible, min. / max.
Connection cross-section, solid, min. / max.
Insulation diameter, min. / max.
Connector standard
Ambient temperature (operational)
PoE / PoE+
Approvals

Note

Cat.6 _A / Class E _A (ISO/IEC 11801 2010)
IP67 with housing
750
360° all-round enclosure
Zinc diecast
Gold over nickel, Au ≥ 0.8 μm
AWG 26 / AWG 22
AWG 24 / AWG 22
0.85 mm...1.6 mm
IEC 60603-7-51
-40 °C...70 °C
conforming to IEEE 802.3af
CULUS

Cat.5 (ISO/IEC 11801)
IP67 with housing
750
360° all-round enclosure
Zinc diecast
Gold over nickel, Au ≥ 0.8 μm
AWG 26 / AWG 22
AWG 24 / AWG 22
0.85 mm...1.6 mm
IEC 60603-7-51
-40 °C...70 °C
conforming to IEEE 802.3af
CULUS; GERMLLOYD

Ordering data

tool-free
TIA-A. Cat. 6 _A
TIA-B. Cat. 6 _A
PROFINET Cat. 5

Note

Type	Qty.	Order No.
IE-BI-RJ45-FJ-A	10	1962850000
IE-BI-RJ45-FJ-B	10	1963840000

Type	Qty.	Order No.
IE-BI-RJ45-FJ-P	10	1963830000

Accessories

Tools
Optional pressing tool



Type	Qty.	Order No.
PWZ RJ45	1	1118040000

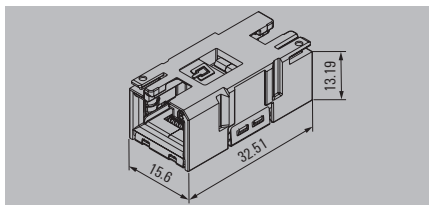
Type	Qty.	Order No.
PWZ RJ45	1	1118040000

Note

RJ45 flange inserts, coupling

- Cat. 6_A
- IP20
- For housing variants 1, 4, 5, 14 and for FrontCom®

8-wire



Technical data

Category
 Protection degree
 Plugging cycles
 Shielding
 Housing main material
 Contact surface
 Connection cross-section, flexible, min. / max.
 Connection cross-section, solid, min. / max.
 Insulation diameter, min. / max.
 Connector standard
 Ambient temperature (operational)
 PoE / PoE+
 Approvals

Cat.6_A / Class E_A (ISO/IEC 11801 2010)
 IP67 with housing
 750
 360° all-round enclosure
 Zinc diecast
 Gold over nickel, Au ≥ 0.8 μm
 IEC 60603-7-51
 -40 °C...70 °C
 conforming to IEEE 802.3af
 CULUS; GERMLLOYD

Note

Ordering data

tool-free	
	Coupling
Note	

Type	Qty.	Order No.
IE-BI-RJ45-C	10	1962840000

Accessories

Type	Qty.	Order No.

Note

RockStar® Kits

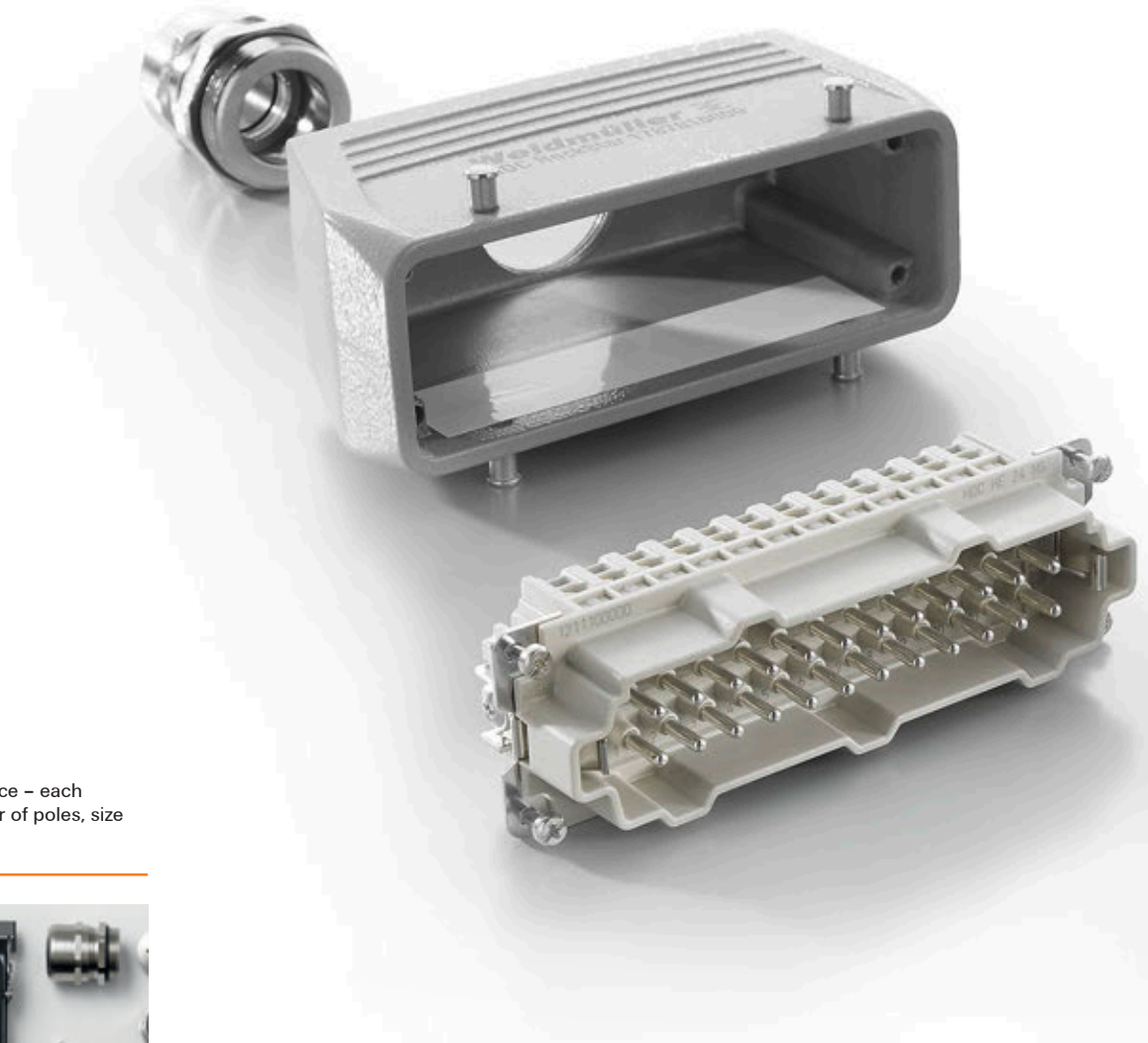
RockStar® Kits	Introduction	H.2
	RockStar® Kits with HA inserts	H.4
	400 V	
	16 A	
	3 - 4 poles	
	RockStar® Kits with HE inserts	H.8
	500 V	
	16 A	
	6 - 48 poles	
	RockStar® Kits with HSB inserts	H.28
	400 V	
	35 A	
	6 poles	

RockStar® Kits

RockStar® kits are sets consisting of all components necessary for assembling a heavy-duty connector. The kit includes the male and female inserts, the plug housing, the bulkhead housing and the cable gland.

The benefits for you:

- Easy to purchase – only one ordered part for all items
- Easy to use – just one package with no individual parts
- Wide variety – we'll put together a customised kit for whichever components you need.



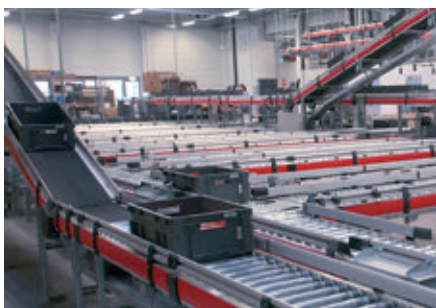
Easy to choose

All components at a single glance – each matched to the required number of poles, size and wire connection method

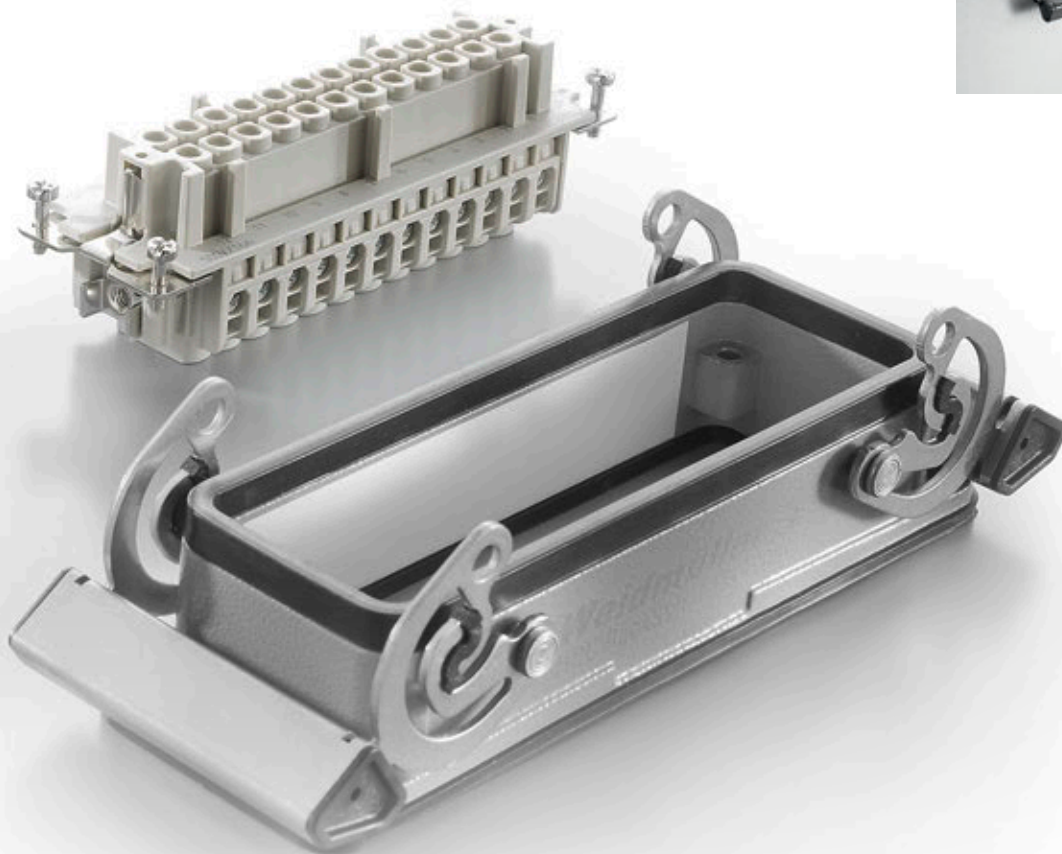


Easy to stock

Only one package is needed for the complete connector. The RockStar® kits simplify your logistics.

**Easy to install**

You only need a screwdriver to install the connector in the field.



Kits with HA inserts, 3 pole

400 V, 16 A, Size 1

Metric versions



Type	Order No.
HDC-KIT-HA 03.300 M	1802470000

Part	Type	Order No.
Female	HDC HA 3 FS	1498200000
Male	HDC HA 3 MS	1498100000
Bulkhead (feed-through)	HDC 04A ALU	1497600000
Plug	HDC 04A TOLU 1M20G	1788820000
Cable glands	VG M20 - MS 68	1772200000

Metal housing



Type	Order No.
HDC-KIT-HA 03.301 M	1802460000

Part	Type	Order No.
Female	HDC HA 3 FS	1498200000
Male	HDC HA 3 MS	1498100000
Bulkhead (feed-through)	HDC 07A ALU	1652410000
Plug	HDC 07A TOLU 1M20G	1788520000
Cable glands	VG M20-1/K68	1772300000

Plastic housing



Type	Order No.
HDC-KIT-HA 03.302 M	1802450000

Part	Type	Order No.
Female	HDC HA 3 FS	1498200000
Male	HDC HA 3 MS	1498100000
Bulkhead (feed-through)	HDC 04A AWLU	1497700000
Plug	HDC 04A TOLU 1M20G	1788820000
Cable glands	VG M20 - MS 68	1772200000

Metal housing

400 V, 16 A, Size 1

PG versions



Type	Order No.
HDC-KIT-HA 03.300	1712560000

Part	Type	Order No.
Female	HDC HA 3 FS	1498200000
Male	HDC HA 3 MS	1498100000
Bulkhead (feed-through)	HDC 04A ALU	1497600000
Plug	HDC 04A TOLU 1PG11G	1652470000
Cable glands	VG 11-MS68	1569080000

Metal housing



Type	Order No.
HDC-KIT-HA 03.301	1712570000

Part	Type	Order No.
Female	HDC HA 3 FS	1498200000
Male	HDC HA 3 MS	1498100000
Bulkhead (feed-through)	HDC 07A ALU	1652410000
Plug	HDC 07A TOLU 1PG11G	1652380000
Cable glands	VG 11-K68	1568990000

Plastic housing



Type	Order No.
HDC-KIT-HA 03.302	1712580000

Part	Type	Order No.
Female	HDC HA 3 FS	1498200000
Male	HDC HA 3 MS	1498100000
Bulkhead (feed-through)	HDC 04A AWLU	1497700000
Plug	HDC 04A TOLU 1PG11G	1652470000
Cable glands	VG 11-MS68	1569080000

Metal housing



Type	Order No.
HDC-KIT-HA 03.404	1712630000

Part	Type	Order No.
Female	HDC HA 3 FS	1498200000
Male	HDC HA 3 MS	1498100000
Bulkhead (feed-through)	HDC 07A AWLU	1652420000
Plug	HDC 07A TOLU 1PG11G	1652380000
Cable glands	VG 11-K68	1568990000

Plastic housing

400 V, 16 A, Size 1

Metric versions



Type	Order No.
HDC-KIT-HA 04.400 M	1802440000

Part	Type	Order No.
Female	HDC HA 4 FS	1498400000
Male	HDC HA 4 MS	1498300000
Bulkhead (feed-through)	HDC 04A ALU	1497600000
Plug	HDC 04A TOLU 1M20G	1788820000
Cable glands	VG M20 - MS 68	1772200000

Metal housing



Type	Order No.
HDC-KIT-HA 04.401 M	1802430000

Part	Type	Order No.
Female	HDC HA 4 FS	1498400000
Male	HDC HA 4 MS	1498300000
Bulkhead (feed-through)	HDC 07A ALU	1652410000
Plug	HDC 07A TOLU 1M20G	1788520000
Cable glands	VG M20-1/K68	1772300000

Plastic housing



Type	Order No.
HDC KIT HA 04.402 M	1802700000

Part	Type	Order No.
Female	HDC HA 4 FS	1498400000
Male	HDC HA 4 MS	1498300000
Bulkhead (feed-through)	HDC 04A AWLU	1497700000
Plug	HDC 04A TOLU 1M20G	1788820000
Cable glands	VG M20 - MS 68	1772200000

Metal housing



Type	Order No.
HDC KIT HA 04.406 M	1802720000

Part	Type	Order No.
Female	HDC HA 4 FS	1498400000
Male	HDC HA 4 MS	1498300000
Bulkhead (feed-through)	HDC 07A AWLU	1652420000
Plug	HDC 07A TOLU 1M20G	1788520000
Cable glands	VG M20-1/K68	1772300000

Plastic housing

400 V, 16 A, Size 1

PG versions



Type	Order No.
HDC-KIT-HA 04.400	1712590000

Part	Type	Order No.
Female	HDC HA 4 FS	1498400000
Male	HDC HA 4 MS	1498300000
Bulkhead (feed-through)	HDC 04A ALU	1497600000
Plug	HDC 04A TOLU 1PG11G	1652470000
Cable glands	VG 11-MS68	1569080000

Metal housing



Type	Order No.
HDC-KIT-HA 04.401	1712600000

Part	Type	Order No.
Female	HDC HA 4 FS	1498400000
Male	HDC HA 4 MS	1498300000
Bulkhead (feed-through)	HDC 07A ALU	1652410000
Plug	HDC 07A TOLU 1PG11G	1652380000
Cable glands	VG 11-K68	1568990000

Plastic housing



Type	Order No.
HDC-KIT-HA 04.402	1712610000

Part	Type	Order No.
Female	HDC HA 4 FS	1498400000
Male	HDC HA 4 MS	1498300000
Bulkhead (feed-through)	HDC 04A AWLU	1497700000
Plug	HDC 04A TOLU 1PG11G	1652470000
Cable glands	VG 11-MS68	1569080000

Metal housing



Type	Order No.
HDC-KIT-HA 04.406	1712650000

Part	Type	Order No.
Female	HDC HA 4 FS	1498400000
Male	HDC HA 4 MS	1498300000
Bulkhead (feed-through)	HDC 07A AWLU	1652420000
Plug	HDC 07A TOLU 1PG11G	1652380000
Cable glands	VG 11-K68	1568990000

Plastic housing

Kits with HE inserts, 6 pole

500 V, 24 A, Size 3

Metric versions



Type	Order No.
HDC KIT HE 06.100 M	1802730000

Part	Type	Order No.
Female	HDC HE 6 FS	1200200000
Male	HDC HE 6 MS	1200000000
Bulkhead (feed-through)	HDC 06B ALU	1202100000
Plug	HDC 06B TSLU 1M20G	1788100000
Cable glands	VG M20 - MS 68	1772220000

Metal housing



Type	Order No.
HDC KIT HE 06.101 M	1802740000

Part	Type	Order No.
Female	HDC HE 6 FS	1200200000
Male	HDC HE 6 MS	1200000000
Bulkhead (feed-through)	HDC 06B ALU	1202100000
Plug	HDC 06B TOLU 1M20G	1788120000
Cable glands	VG M20 - MS 68	1772220000

Metal housing

500 V, 24 A, Size 3

PG versions



Type	Order No.
HDC-KIT-HE 06.100	1712460000

Part	Type	Order No.
Female	HDC HE 6 FS	1200200000
Male	HDC HE 6 MS	1200000000
Bulkhead (feed-through)	HDC 06B ALU	1202100000
Plug	HDC 06B TSLU 1PG16G	1652520000
Cable glands	VG 16-MS68	1569100000

Metal housing



Type	Order No.
HDC-KIT-HE 06.101	1712660000

Part	Type	Order No.
Female	HDC HE 6 FS	1200200000
Male	HDC HE 6 MS	1200000000
Bulkhead (feed-through)	HDC 06B ALU	1202100000
Plug	HDC 06B TOLU 1PG16G	1652640000
Cable glands	VG 16-MS68	1569100000

Metal housing

Kits with HE inserts, 6-pole, PUSH IN

500 V, 24 A, Size 3

metric versions



Type	Order No.
HDC KIT HE-P 06.10 M	1027650000

Part	Type	Order No.
Female	HDC HE 6 FP	1873520000
Male	HDC HE 6 MP	1873530000
Bulkhead (feed-through)	HDC 06B ALU	1202100000
Plug	HDC 06B TSLU 1M20G	1788100000
Cable glands	VG M20 - MS 68	1772220000

Metal housings



Type	Order No.
HDC KIT HE-P 06.11 M	1061720000

Part	Type	Order No.
Female	HDC HE 6 FP	1873520000
Male	HDC HE 6 MP	1873530000
Bulkhead (feed-through)	HDC 06B ALU	1202100000
Plug	HDC 06B TOLU 1M20G	1788120000
Cable glands	VG M20 - MS 68	1772220000

Metal housings

500 V, 24 A, Size 3

PG versions



Type	Order No.
HDC KIT HE-P 06.10	1027660000

Part	Type	Order No.
Female	HDC HE 6 FP	1873520000
Male	HDC HE 6 MP	1873530000
Bulkhead (feed-through)	HDC 06B ALU	1202100000
Plug	HDC 06B TSLU 1PG16G	1652520000
Cable glands	VG 16-MS68	1569100000

Metal housings



Type	Order No.
HDC KIT HE-P 06.11	1061710000

Part	Type	Order No.
Female	HDC HE 6 FP	1873520000
Male	HDC HE 6 MP	1873530000
Bulkhead (feed-through)	HDC 06B ALU	1202100000
Plug	HDC 06B TOLU 1PG16G	1652640000
Cable glands	VG 16-MS68	1569100000

Metal housings

Kits with HE inserts, 10 pole

500 V, 16 A, Size 4

Metric versions



Type	Order No.
HDC-KIT-HE 10.110 M	1802420000

Part	Type	Order No.
Female	HDC HE 10 FS	1204100000
Male	HDC HE 10 MS	1203900000
Bulkhead (feed-through)	HDC 10B ABU	1205000000
Plug	HDC 10B TSBU 1M25G	1787550000
Cable glands	VG M25 - MS 68	1772230000

Metal housing



Type	Order No.
HDC-KIT-HE 10.111 M	1802410000

Part	Type	Order No.
Female	HDC HE 10 FS	1204100000
Male	HDC HE 10 MS	1203900000
Bulkhead (feed-through)	HDC 10B ABU	1205000000
Plug	HDC 10B TOBU 1M25G	1787590000
Cable glands	VG M25 - MS 68	1772230000

Metal housing

500 V, 16 A, Size 4

PG versions



Type	Order No.
HDC-KIT-HE 10.110	1712510000

Part	Type	Order No.
Female	HDC HE 10 FS	1204100000
Male	HDC HE 10 MS	1203900000
Bulkhead (feed-through)	HDC 10B ABU	1205000000
Plug	HDC 10B TSBU 1PG16G	1654070000
Cable glands	VG 16-MS68	1569100000

Metal housing



Type	Order No.
HDC-KIT-HE 10.111	1712670000

Part	Type	Order No.
Female	HDC HE 10 FS	1204100000
Male	HDC HE 10 MS	1203900000
Bulkhead (feed-through)	HDC 10B ABU	1205000000
Plug	HDC 10B TOBU 1PG16G	1654220000
Cable glands	VG 16-MS68	1569100000

Metal housing

Kits with HE inserts, 10-pole, PUSH IN

500 V, 16 A, Size 4

Metric versions



Type	Order No.
HDC KIT HE-P 10.110 M	1027670000

Part	Type	Order No.
Female	HDC HE 10 FP	1873540000
Male	HDC HE 10 MP	1873550000
Bulkhead (feed-through)	HDC 10B ABU	1205000000
Plug	HDC 10B TSBU 1M25G	1787550000
Cable glands	VG M25 - MS 68	1772230000

Metal housings



Type	Order No.
HDC KIT HE-P 10.111 M	1061740000

Part	Type	Order No.
Female	HDC HE 10 FP	1873540000
Male	HDC HE 10 MP	1873550000
Bulkhead (feed-through)	HDC 10B ABU	1205000000
Plug	HDC 10B TOBU 1M25G	1787590000
Cable glands	VG M25 - MS 68	1772230000

Metal housings

500 V, 16 A, Size 4

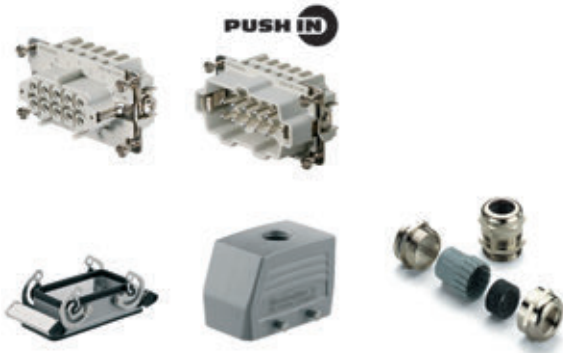
PG versions



Type	Order No.
HDC KIT HE-P 10.110	1027680000

Part	Type	Order No.
Female	HDC HE 10 FP	1873540000
Male	HDC HE 10 MP	1873550000
Bulkhead (feed-through)	HDC 10B ABU	1205000000
Plug	HDC 10B TSBU 1PG16G	1654070000
Cable glands	VG 16-MS68	1569100000

Metal housings



Type	Order No.
HDC KIT HE-P 10.111	1061730000

Part	Type	Order No.
Female	HDC HE 10 FP	1873540000
Male	HDC HE 10 MP	1873550000
Bulkhead (feed-through)	HDC 10B ABU	1205000000
Plug	HDC 10B TOBU 1PG16G	1654220000
Cable glands	VG 16-MS68	1569100000

Metal housings

Kits with HE inserts, 16 pole

500 V, 16 A, Size 6

Metric versions



Type	Order No.
HDC-KIT-HE 16.120 M	1802400000

Part	Type	Order No.
Female	HDC HE 16 FS	1207700000
Male	HDC HE 16 MS	1207500000
Bulkhead (feed-through)	HDC 16B ABU	1208600000
Plug	HDC 16B TSBU 1M25G	1788180000
Cable glands	VG M25 - MS 68	1772230000

Metal housing



Type	Order No.
HDC-KIT-HE 16.121 M	1802390000

Part	Type	Order No.
Female	HDC HE 16 FS	1207700000
Male	HDC HE 16 MS	1207500000
Bulkhead (feed-through)	HDC 16B ABU	1208600000
Plug	HDC 16B TOBU 1M25G	1788210000
Cable glands	VG M25 - MS 68	1772230000

Metal housing

500 V, 16 A, Size 6

PG versions



Type	Order No.
HDC-KIT-HE 16.120	1712520000

Part	Type	Order No.
Female	HDC HE 16 FS	1207700000
Male	HDC HE 16 MS	1207500000
Bulkhead (feed-through)	HDC 16B ABU	1208600000
Plug	HDC 16B TSBU 1PG21G	1656480000
Cable glands	VG 21-MS68	1569110000

Metal housing



Type	Order No.
HDC-KIT-HE 16.121	1712680000

Part	Type	Order No.
Female	HDC HE 16 FS	1207700000
Male	HDC HE 16 MS	1207500000
Bulkhead (feed-through)	HDC 16B ABU	1208600000
Plug	HDC 16B TOBU 1PG21G	1656590000
Cable glands	VG 21-MS68	1569110000

Metal housing

Kits with HE inserts, 16-pole, PUSH IN

500 V, 16 A, Size 6

Metric versions



Type	Order No.
HDC KIT HE-P 16.120 M	1027690000

Part	Type	Order No.
Female	HDC HE 16 FP	1873560000
Male	HDC HE 16 MP	1873570000
Bulkhead (feed-through)	HDC 16B ABU	1208600000
Plug	HDC 16B TSBU 1M25G	1788180000
Cable glands	VG M25 - MS 68	1772230000

Metal housings



Type	Order No.
HDC KIT HE-P 16.121 M	1061770000

Part	Type	Order No.
Female	HDC HE 16 FP	1873560000
Male	HDC HE 16 MP	1873570000
Bulkhead (feed-through)	HDC 16B ABU	1208600000
Plug	HDC 16B TOBU 1M25G	1788210000
Cable glands	VG M25 - MS 68	1772230000

Metal housings

500 V, 16 A, Size 6

PG versions



Type	Order No.
HDC KIT HE-P 16.120	1027640000

Part	Type	Order No.
Female	HDC HE 16 FP	1873560000
Male	HDC HE 16 MP	1873570000
Bulkhead (feed-through)	HDC 16B ABU	1208600000
Plug	HDC 16B TSBU 1PG21G	1656480000
Cable glands	VG 21-MS68	1569110000

Metal housings



Type	Order No.
HDC KIT HE-P 16.121	1061750000

Part	Type	Order No.
Female	HDC HE 16 FP	1873560000
Male	HDC HE 16 MP	1873570000
Bulkhead (feed-through)	HDC 16B ABU	1208600000
Plug	HDC 16B TOBU 1PG21G	1656590000
Cable glands	VG 21-MS68	1569110000

Metal housings

Kits with HE inserts, 24 pole

500 V, 16 A, Size 8

Metric versions



Type	Order No.
HDC-KIT-HE 24.130 M	1802380000

Part	Type	Order No.
Female	HDC HE 24 FS	1211300000
Male	HDC HE 24 MS	1211100000
Bulkhead (feed-through)	HDC 24B ABU	1212400000
Plug	HDC 24B TSBU 1M32G	1787750000
Cable glands	VG M32 - MS 68	1772240000

Metal housing



Type	Order No.
HDC-KIT-HE 24.131 M	1802480000

Part	Type	Order No.
Female	HDC HE 24 FS	1211300000
Male	HDC HE 24 MS	1211100000
Bulkhead (feed-through)	HDC 24B ABU	1212400000
Plug	HDC 24B TOBU 1M32G	1787810000
Cable glands	VG M32 - MS 68	1772240000

Metal housing

500 V, 16 A, Size 8

PG versions



Type	Order No.
HDC-KIT-HE 24.130	1712530000

Part	Type	Order No.
Female	HDC HE 24 FS	1211300000
Male	HDC HE 24 MS	1211100000
Bulkhead (feed-through)	HDC 24B ABU	1212400000
Plug	HDC 24B TSBU 1PG21G	1661230000
Cable glands	VG 21-MS68	1569110000

Metal housing



Type	Order No.
HDC-KIT-HE 24.131	1712690000

Part	Type	Order No.
Female	HDC HE 24 FS	1211300000
Male	HDC HE 24 MS	1211100000
Bulkhead (feed-through)	HDC 24B ABU	1212400000
Plug	HDC 24B TOBU 1PG21G	1661370000
Cable glands	VG 21-MS68	1569110000

Metal housing

Kits with HE inserts, 24-pole, PUSH IN

500 V, 16 A, Size 8

Metric versions



Type	Order No.
HDC KIT HE-P 24.130 M	1061790000

Part	Type	Order No.
Female	HDC HE 24 FP	1873580000
Male	HDC HE 24 MP	1873590000
Bulkhead (feed-through)	HDC 24B ABU	1212400000
Plug	HDC 24B TSBU 1M32G	1787750000
Cable glands	VG M32 - MS 68	1772240000

Metal housings



Type	Order No.
HDC KIT HE-P 24.131 M	1061700000

Part	Type	Order No.
Female	HDC HE 24 FP	1873580000
Male	HDC HE 24 MP	1873590000
Bulkhead (feed-through)	HDC 24B ABU	1212400000
Plug	HDC 24B TOBU 1M32G	1787810000
Cable glands	VG M32 - MS 68	1772240000

Metal housings

500 V, 16 A, Size 8

PG versions



Type	Order No.
HDC KIT HE-P 24.130	1061780000

Part	Type	Order No.
Female	HDC HE 24 FP	1873580000
Male	HDC HE 24 MP	1873590000
Bulkhead (feed-through)	HDC 24B ABU	1212400000
Plug	HDC 24B TSBU 1PG21G	1661230000
Cable glands	VG 21-MS68	1569110000

Metal housings



Type	Order No.
HDC KIT HE-P 24.131	1061800000

Part	Type	Order No.
Female	HDC HE 24 FP	1873580000
Male	HDC HE 24 MP	1873590000
Bulkhead (feed-through)	HDC 24B ABU	1212400000
Plug	HDC 24B TOBU 1PG21G	1661370000
Cable glands	VG 21-MS68	1569110000

Metal housings

Kits with HE inserts, 32 pole

500 V, 16 A, Size 10

Metric versions



Type	Order No.
HDC-KIT-HE 32.140 M	1802370000

Part	Type	Order No.
Female	HDC HE 16 FS	1207700000
Female	HDC HE 16 FS 17-32	1216100000
Male	HDC HE 16 MS	1207500000
Male	HDC HE 16 MS 17-32	1215700000
Bulkhead (feed-through)	HDC 32B ABU	1217800000
Plug	HDC 32B TSBU 1M32G	1788400000
Cable glands	VG M32 - MS 68	1772240000

Metal housing

500 V, 16 A, Size 10

PG versions



Type	Order No.
HDC-KIT-HE 32.140	1712540000

Part	Type	Order No.
Female	HDC HE 16 FS	1207700000
Female	HDC HE 16 FS 17-32	1216100000
Male	HDC HE 16 MS	1207500000
Male	HDC HE 16 MS 17-32	1215700000
Bulkhead (feed-through)	HDC 32B ABU	1217800000
Plug	HDC 32B TSBU 1PG29G	1666840000
Cable glands	VG 29-MS68	1569120000

Metal housing

Kits with HE inserts, 48 pole

500 V, 16 A, Size 12

Metric versions



Type	Order No.
HDC-KIT-HE 48.150 M	1802360000

Part	Type	Order No.
Female	HDC HE 24 FS	1211300000
Female	HDC HE 24 FS 25-48	1221200000
Male	HDC HE 24 MS	1211100000
Male	HDC HE 24 MS 25-48	1220800000
Bulkhead (feed-through)	HDC 48B ADLU	1222900000
Plug	HDC 48B TSLU 1M40G	1788310000
Cable glands	VG M40 - MS 68	1772250000

Metal housing

500 V, 16 A, Size 12

PG versions



Type	Order No.
HDC-KIT-HE 48.150	1712550000

Part	Type	Order No.
Female	HDC HE 24 FS	1211300000
Female	HDC HE 24 FS 25-48	1221200000
Male	HDC HE 24 MS	1211100000
Male	HDC HE 24 MS 25-48	1220800000
Bulkhead (feed-through)	HDC 48B ADLU	1222900000
Plug	HDC 48B TSLU 1PG29G	1650850000
Cable glands	VG 29-MS68	1569120000

Metal housing

Kits with HSB inserts, 6 pole

400 V, 35 A, Size 6

PG versions



Type	Order No.
HDC-KIT-HSB 06.500	1724000000

Part	Type	Order No.
Female	HDC HSB 6 FS	1498900000
Male	HDC HSB 6 MS	1498700000
Bulkhead (feed-through)	HDC 16B ABU	1208600000
Plug	HDC 16B TSBU 1PG21G	1656480000
Cable glands	VG 21-MS68	1569110000

Metal housing

RockStar® accessories

RockStar® accessories	Introduction	1.2
	Crimp contacts	1.4
	Fibre optic contacts	1.8
	Coding	1.10
	Shield lever	1.14
	Other accessories	1.18

RockStar® Accessories

In addition to heavy-duty connectors, RockStar® also includes functional and safety accessories – including crimp contacts, coding systems and shield clamps – to help you with your facility cabling.

A technically proper crimp connection should be gas-tight and corrosion-resistant. Machined crimp contacts are available with different performance requirements and with either silver or gold plating.

When aligning multiple connectors with similar mating profiles within one facility, you must safeguard against accidental plugging mistakes. The RockStar® product line also includes the corresponding locking pins, coding systems and pole coding for this purpose.

If multiple shielded cables are being fed into the connector housing using a flexible hose or a multi-cable feed, then the shielding should normally be connected to a shield clamp attached to an insert. The potential is conducted to the housing using the metallic transition. The shielded conductor is fastened to the shield clamp with shield clips, which are available in a variety of sizes.



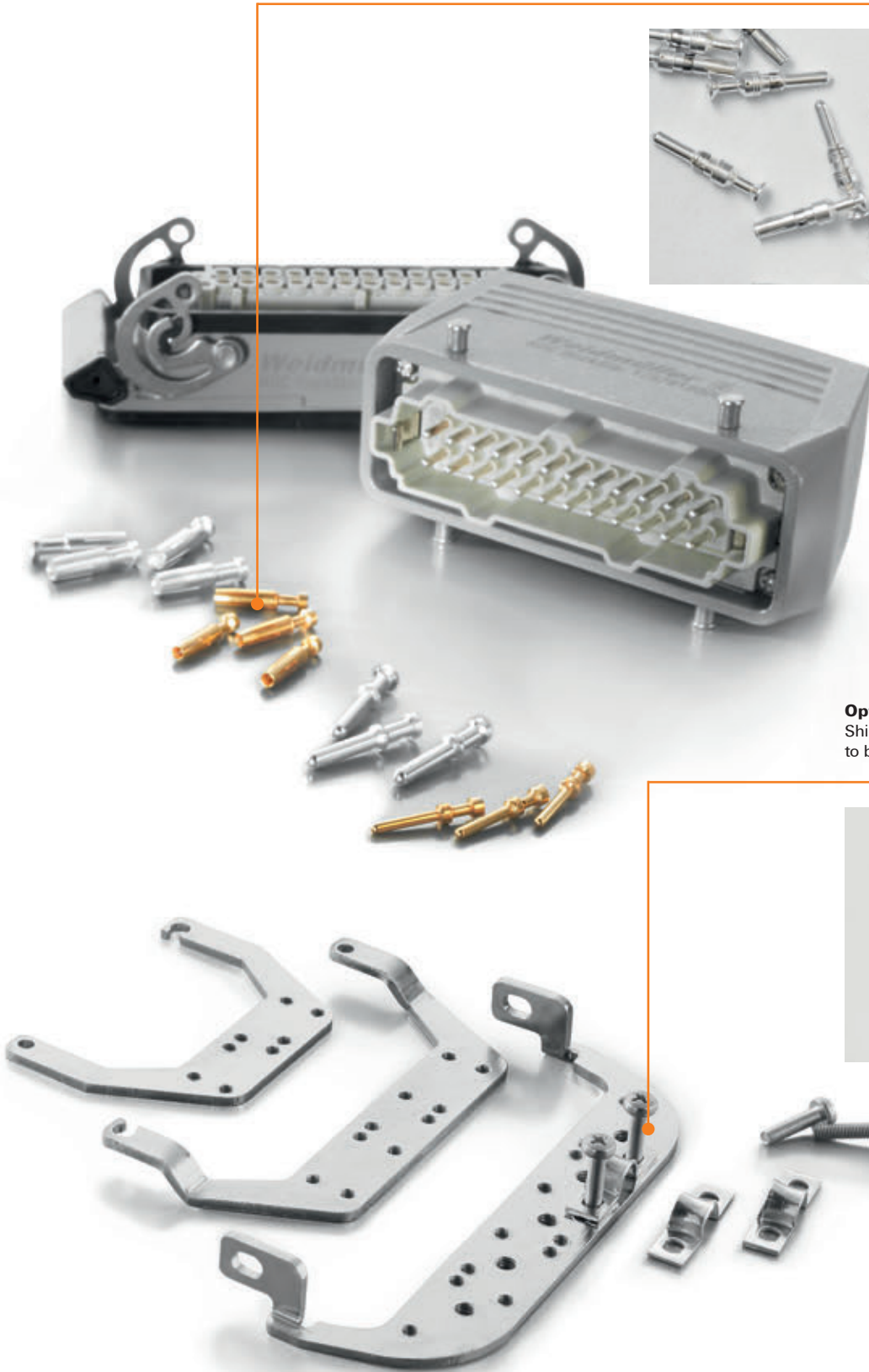
Solid

Weidmüller's coding system can help you to clearly classify and organise your connectors while also ensuring that they cannot be plugged in incorrectly.



Secure

Solid, machined crimped contacts ensure a gas-tight and corrosion-resistant crimp.

**Optimised shielding**

Shield clamps and shield clips allow the shield to be directly attached to the connector housing.



Crimp contacts

Crimp contacts for 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	≤ 2 mΩ
Clamping range	0.14 ... 2.5 mm ² 26 ... 14 AWG	0.5 ... 4.0 mm ² 20 ... 12 AWG
Stripping length	8 mm	7.5 mm

For HD and HDD inserts

Crimp contacts

Surface Gold



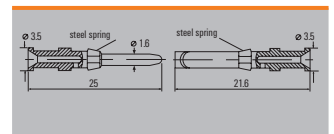
Surface Silver



Male

Qty.	Type	Order No.	Type	Order No.
100	HDC-C-HD-SM0.14-0.37AU	1651620000	HDC-C-HD-BM0.14-0.37AU	1651670000
100	HDC-C-HD-SM0.5AU	1651630000	HDC-C-HD-BM0.5AU	1651680000
100	HDC-C-HD-SM0.75-1.00AU	1651640000	HDC-C-HD-BM0.75-1.00AU	1651690000
100	HDC-C-HD-SM1.5AU	1651650000	HDC-C-HD-BM1.5AU	1651700000
100	HDC-C-HD-SM2.5AU	1651660000	HDC-C-HD-BM2.5AU	1651710000
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100	HDC-C-HD-SM0.14-0.37AG	1651520000	HDC-C-HD-BM0.14-0.37AG	1651570000
100	HDC-C-HD-SM0.5AG	1651530000	HDC-C-HD-BM0.5AG	1651580000
100	HDC-C-HD-SM0.75-1.00AG	1601750000	HDC-C-HD-BM0.75-1.00AG	1601760000
100	HDC-C-HD-SM1.5AG	1651550000	HDC-C-HD-BM1.5AG	1651600000
100	HDC-C-HD-SM2.5AG	1651560000	HDC-C-HD-BM2.5AG	1651610000

Female



Conductor cross-section	Insulation 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

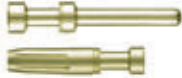


Crimping tool	Order No.
CTX CM 1,6 / 2,5	9018490000
CTIN CM 1.6/2.5	9205430000
Contact release tool	
Removal Tool HD	1866730000

For HE, HEE and HEEE inserts

Crimp contacts

Surface Gold



Surface Silver



Male

Qty.	Type	Order No.	Type	Order No.
100	HDC-C-HE-SM0.5AU	1651420000	HDC-C-HE-BM0.5AU	1651470000
100	HDC-C-HE-SM0.75-1.00AU	1651430000	HDC-C-HE-BM0.75-1.00AU	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
100	HDC-C-HE-SM4.65AU	1116540000	HDC-C-HE-BM4.65AU	1116530000
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100	HDC-C-HE-SM0.5AG	1200500000	HDC-C-HE-BM0.5AG	1201100000
100	HDC-C-HE-SM0.75-1.00AG	1200600000	HDC-C-HE-BM0.75-1.00AG	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

Female



Conductor cross-section	Insulation 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
4.65 mm ²	AWG 11 7.5 mm

Tools



Crimping tool	Order No.
CTX CM 1,6 / 2,5	9018490000
CTIN CM 1.6/2.5	9205430000
Contact release tool	
Removal Tool HE	1866750000

Crimp contacts for fixed-pole inserts

Technical data

	For HQ and MixMate inserts	CM-3
Material	Copper alloy	Copper alloy
Surface hard silver-plated	3 µm	3 µm
Contact resistance	≤ 1 mΩ	≤ 1 mΩ
Clamping range	1.5 ... 6 mm ²	1.5 ... 10 mm ²
Stripping length	16 ... 10 AWG	16 ... 7 AWG
Stripping length	8 mm	10 mm

For HQ and MixMate inserts

Crimp contacts

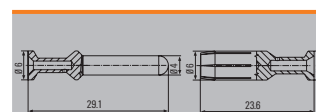
Surface Silver



Male

Qty.	Type	Order No.	Type	Order No.
25	HDC C HX SM1.5AG	1002910000	HDC C HX BM1.5AG	1002950000
25	HDC C HX SM2.5AG	1002920000	HDC C HX BM2.5AG	1002960000
25	HDC C HX SM4.0AG	1002930000	HDC C HX BM4.0AG	1002970000
25	HDC C HX SM6.0AG	1002940000	HDC C HX BM6.0AG	1002980000

Female



Conductor cross-section	Insulation stripping length
1.50 mm ²	AWG 16 8 mm
2.50 mm ²	AWG 14 8 mm
4.00 mm ²	AWG 12 8 mm
6.00 mm ²	AWG 10 8 mm

Tools



Crimping tool	Order No.
CTIN CM 1.6/2.5	9205430000
Contact release tool	Order No.
Removal Tool HX	1002990000

High Power signal contacts

Crimp contacts

Surface Silver



Male

Qty.	Type	Order No.	Type	Order No.
100	HDC-C-M3-SM1.5AG	1698120000	HDC-C-M3-BM1.5AG	1698130000
100	HDC-C-M3-SM2.5AG	1698140000	HDC-C-M3-BM2.5AG	1698150000
100	HDC-C-M3-SM4.0AG	1682260000	HDC-C-M3-BM4.0AG	1682270000
100	HDC-C-M3-SM6.0AG	1682280000	HDC-C-M3-BM6.0AG	1682290000
100	HDC-C-M3-SM10.0AG	1682300000	HDC-C-M3-BM10.0AG	1682310000

Female



Conductor cross-section	Insulation 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
4.65 mm ²	AWG 11 7.5 mm

Tools



Crimping tool	Order No.
CTX CM 1,6 / 2,5	9018490000
CTIN CM 1.6/2.5	9205430000
CTX CM 3,6	9018480000
CTIN CM 3.6	9205440000
Contact release tool	Order No.
Removal Tool CM3	1866710000

Crimp contacts

Crimp contacts for HighPower

Technical data

for HighPower 250 A	
Material	Copper alloy
Surface hard silver-plated	3-5 µm
Contact resistance	≤ 0.1 mΩ
Clamping range	25 ... 95 mm ²
	AWG 4 ... AWG 000
Stripping length	30 mm*

For HighPower 250 A

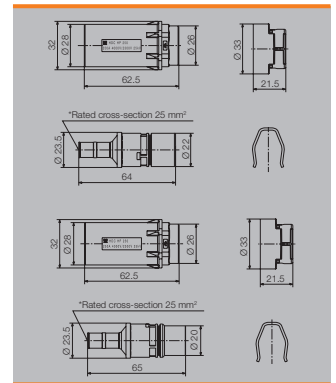
Crimp contacts



Wire connection cross-section	Male Type	Order No.	Female Type	Order No.
25 mm ²	HDC HP 250 M 25	1079690000	HDC HP 250 F 25	1079720000
35 mm ²	HDC HP 250 M 35	1079680000	HDC HP 250 F 35	1079730000
50 mm ²	HDC HP 250 M 50	1119080000	HDC HP 250 F 50	1079740000
70 mm ²	HDC HP 250 M 70	1119090000	HDC HP 250 F 70	1079750000
95 mm ²	HDC HP 250 M 95	1119100000	HDC HP 250 F 95	1079770000
Insulated PE contact				
50 mm ²	HDC HP 250 M 50 PE	1220850000	HDC HP 250 F 50 PE	1220840000

Note

In the version described here, the crimp contacts can be used for crimp connections with flexible, stranded, and finely stranded copper wires (according to DIN 48201 part 1 and DIN 57 295 VDE 0295) or with crimping inserts (according to DIN 48083 part 1, part 3 and part 4). We would be glad to customise the crimp contact to fit your requirements.



Technical data

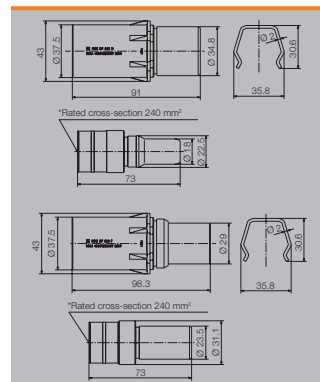
for HighPower 550 A	
Material	Copper alloy
Surface hard silver-plated	3-5 µm
Contact resistance	≤ 0.1 mΩ
Clamping range	50 ... 240 mm ²
	AWG 1/0 ... kcmil 500
Stripping length	30 mm*

For HighPower 550 A

Crimp contacts



Wire connection cross-section	Male Type	Order No.	Female Type	Order No.
25 mm ²	HDC HP 550 M 25	1220580000	HDC HP 550 F 25	1220570000
50 mm ²	HDC HP 550 M 50	1157800000	HDC HP 550 F 50	1177100000
70 mm ²	HDC HP 550 M 70	1268810000	HDC HP 550 F 70	1268820000
95 mm ²	HDC HP 550 M 95	1079790000	HDC HP 550 F 95	1079810000
120 mm ²	HDC HP 550 M 120	1079780000	HDC HP 550 F 120	1079820000
150 mm ²	HDC HP 550 M 150	1119110000	HDC HP 550 F 150	1079830000
185 mm ²	HDC HP 550 M 185	1120580000	HDC HP 550 F 185	1079840000
240 mm ²	HDC HP 550 M 240	1120590000	HDC HP 550 F 240	1120600000



Fibre optic contacts

Fibre optic contacts



Fibre-optic cables guarantee interference-free transmission without any feedback.

The new fibre-optic contacts can now also be used in heavy-duty connectors. Their shape corresponds to that of our proven HD contacts for connecting conventional copper wires. Accordingly, they can be assembled in existing connectors of the HD series, as well as being suitable for use with the ConCept modular system. It is even possible to connect fibre-optic wires and copper wires in a single 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 environments

HDC-C-HD ... LWL 1.0 POF

Technical data

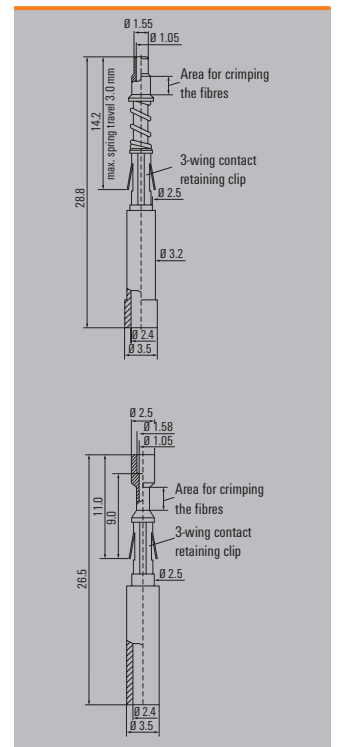
Connection for POF cable	
Maximum outer diameter	2.2 mm
Polymer fibre diameter	1.0 mm
Attenuation	
- Requirement to DIN IEC Part 7 Section 2/05.94:	< 3 dB
- the HDC-C-HD LWL contacts in plugged-in state:	< 2 dB
Material	
Temperature range	-40 °C to +85 °C
Contact material	Nickel-silver
Over-spring	Copper 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

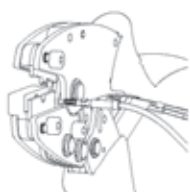


Instructions for assembling fibre optic contacts

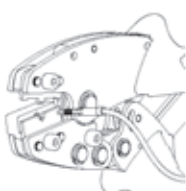
1. Cut POF cable (polymer optical fibre) to the required length with cutting tool (we recommend the KT 8).
2. The end face of the fibre of 2.2 mm POF cables must be polished before crimping onto the fibre optic contact. Insert end of POF cable into polishing disc and polish with polishing sheet placed 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

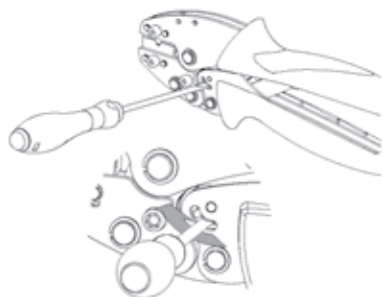
B. Female



C.



D.



Cutting tool

including positioning sleeve



Type	Qty.	Order No.
KT8	1	1096180000

Polishing disc for fibre-optic cable

Polishing sheet, 1,000 grit size



Type	Qty.	Order No.
PS LWL/POF	1	9020390000
PB LWL/POF	1	9020400000

Stripping tool

for fibre-optic cable



Type	Qty.	Order No.
AM LWL/POF	1	9020360000

Crimping tool

for fibre-optic set



Type	Qty.	Order No.
HTX-HDC/POF	1	9010950000

Contact release tool

for removing machined HD and fibre-optic contacts



Type	Qty.	Order No.
Removal Tool HD	1	1866730000

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 six connectors to code, Weidmüller coding pins are the simplest solution. They allow six secure coding variations.

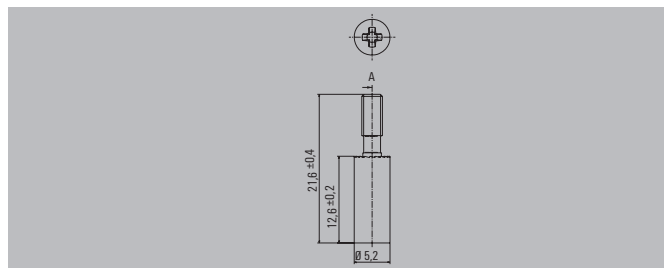
In this case, you substitute two M3 fastening screws on the female insert by coding pins. On the male insert, you leave the opposing fastening screws where they are and substitute the others by coding pins. You then have a pair of inserts that fit together. The coding diagram illustrates the system.

Ordering data

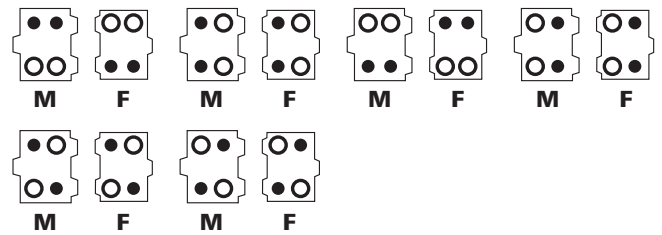
Type	Qty.	Order No.
SPB-M 3	10	1203600000



Allow 4 coding pins for each connector.



Coding arrangement for coding pins



Coding system with guiding function

If you have more than six connectors of similar type to code, you need coding pins and coding sockets. Replace all M3 fastening screws of an insert by two coding pins and two coding sockets. You then fit two coding pins and two coding sockets to the mating insert, in a 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 DSTV

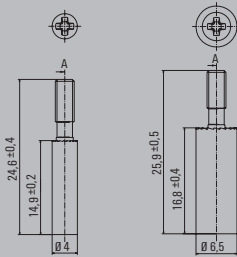
For fixed-pole inserts



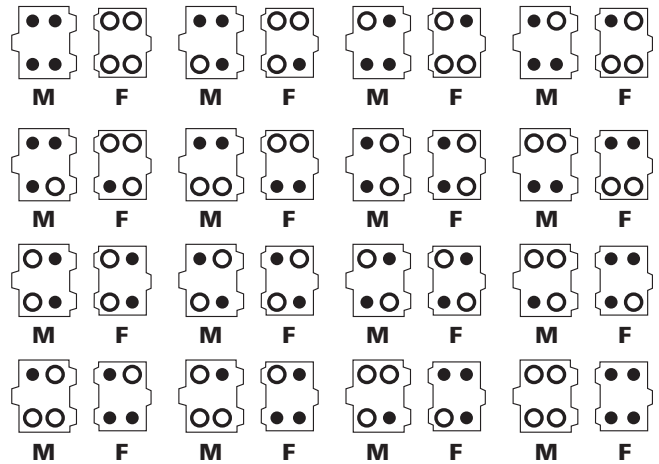
Cod. socket 5 mm dia 
Cod. pin 4 mm dia 

Type	Qty.	Order No.
DSTV COST4	100	1471300000
DSTV COBU5	100	1471500000

Plan to have four coding pins and four coding sockets for each connector.



Coding arrangement for coding pins



Ordering data HDC CM

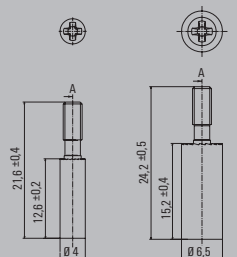
For ModuPlug metal frames



Cod. socket 5 mm dia 
Cod. pin 4 mm dia 

Type	Qty.	Order No.
HDC CM	100	1202660000
GUIDING PIN		
HDC CM	100	1202670000
GUIDING SOCKET		

Plan to have four coding pins and four coding sockets for each connector.




Coding

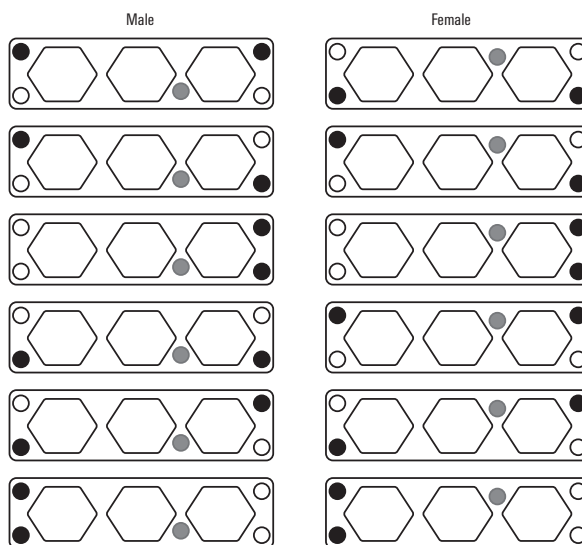
Assembly instructions for the coding system for the RockStar® HDC HighPower connectors

The coding elements (available under Accessories) can be used to code up to six connectors.

Ordering data

Coding pin	Type	Order No.
	HDC HP CODING SYSTEM	1160780000

Coding arrangement Male/Female



HE coding pin

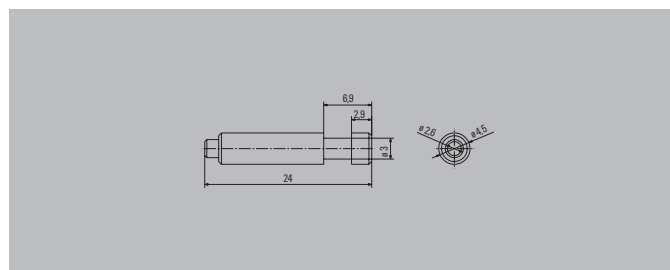
Use the HE coding pin for a quick and simple solution to avoid mixing up your plug-in connections. The coding pin can be inserted into a single contact chamber (instead of a crimp contact) on both the male and female side of the connector. The opposite mated contact then remains free. The HE coding pin can be used to code all inserts and modules using HE-series crimp contacts.

These include the following:

- HA crimp inserts
- HE crimp inserts
- HEE inserts
- HEEE inserts
- HQ 5 insert
- HQ 8 insert
- S8/24 insert (power contacts)

Ordering data

Type	Qty.	Order No.
HDC HE CP	100	1003240000



HQ 7 coding system

You can protect 7-pole HQ connectors against false insertions by using the HQ 7 coding system. Both a coding pin and socket are used for protection. Six different variants

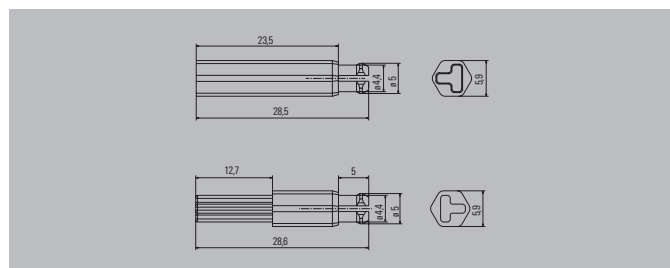
are permitted by the shape of the optional coding which is aligned centrally in the connector. Refer to the coding diagram for the layout.

Ordering data

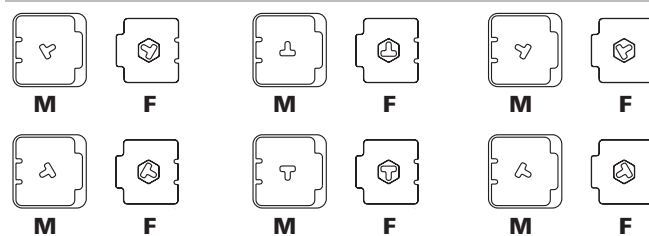
Type	Qty.	Order No.
HDC HQ 7 CPM	50	1003230000
HDC HQ 7 CPF	50	1003220000



Note:
Six-way coding is possible with a coding pin.



Coding arrangement Male/Female



Shield lever

Shield lever for sizes 3, 4, 6 and 8 for fitting of shield clamps or KLBÜ 3–8 SC

Technical data

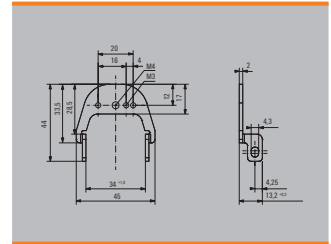
Use	Clamping of the shield
Fastening of shield lever	To PE terminal, both sides, 2nd screw for fixing
Cable connection system	Shield clamp or KLBÜ clamping yoke
No. shield clamps or KLBÜ clamping yokes	
Size 3	1*
Size 4	2*
Size 6	3*
Size 8	5*
Clamping range shield clamp	see page I.18
Material	Steel
Surface	Galvanised
Temperature range	-40 °C ... +125 °C
Note: *Fastening points of shield clamp, 16 mm spacing	

Shield lever for standard inserts

HDC SHIELD LEVER 3 SC



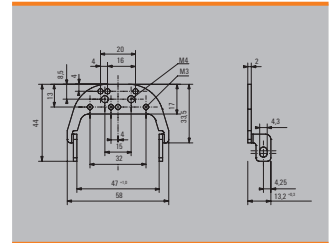
Type	Size	Qty.	Order No.
HDC SHIELD LEVER 3 SC	3	1	1867390000



HDC SHIELD LEVER 4 SC



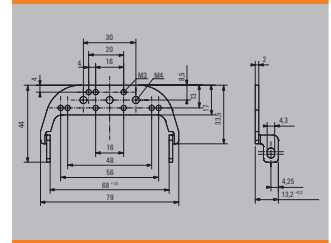
Type	Size	Qty.	Order No.
HDC SHIELD LEVER 4 SC	4	1	1867370000



HDC SHIELD LEVER 6 SC



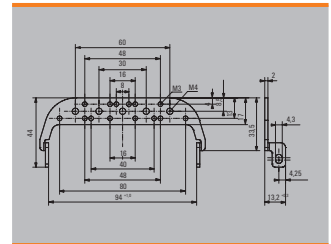
Type	Size	Qty.	Order No.
HDC SHIELD LEVER 6 SC	6	1	1867380000



HDC SHIELD LEVER 8 SC



Type	Size	Qty.	Order No.
HDC SHIELD LEVER 8 SC	8	1	1867360000



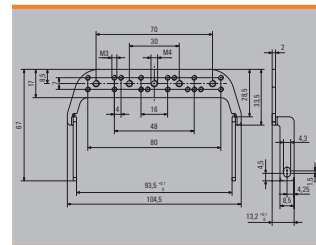
Shield lever

for standard inserts – special versions

SHIELD LEVER 8 MOD 35 mm



Type	Size	Qty.	Order No.
SHIELD LEVER 8 MOD 35mm	8	1	1000950001



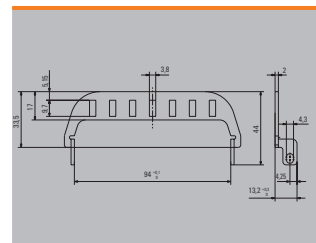
Shield lever

Special versions

HDC SHIELD LEVER 8 LL



Type	Size	Qty.	Order No.
HDC SHIELD LEVER 8 LL	8	1	1011380000



Shield lever

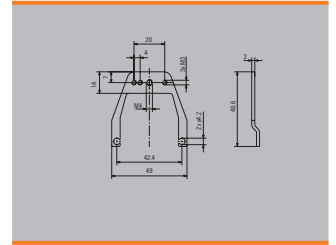
Shield lever

for the ModuPlug modular system (metal frame) - 45° angled version

HDC MSL6



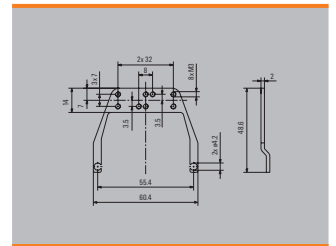
Type	Size	Qty.	Order No.
HDC MSL6	3	1	1435410000



HDC MSL10



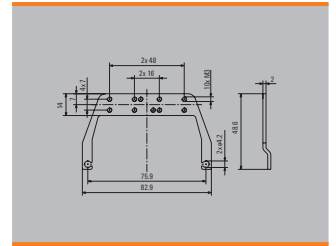
Type	Size	Qty.	Order No.
HDC MSL10	4	1	1435420000



HDC MSL16



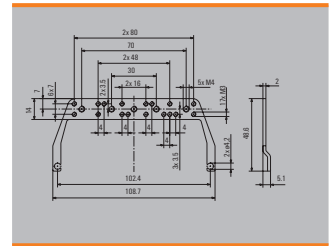
Type	Size	Qty.	Order No.
HDC MSL16	6	1	1435430000



HDC MSL24



Type	Size	Qty.	Order No.
HDC MSL24	8	1	1435440000



PE-Extension

for ModuPlug frames

HDC MF CA16 PE



Type	Size	Qty.	Order No.
HDC MF CA16 PE	16 mm ²	1	1480940000



Other accessories

Shield clamps for shield levers
of size 3 (06B), 4 (10B), 6 (16B) and 8 (24B)

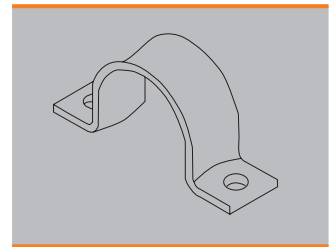
Technical data

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



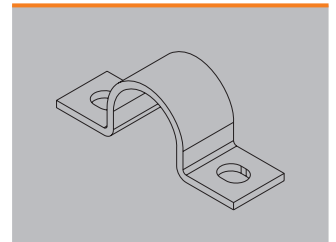
Type	Qty.	Order No.
SHIELD CLAMP 4.5 WO S	100	1018120000
SHIELD CLAMP 5 WO S	100	1018130000
SHIELD CLAMP 6 WO S	100	1018150000
SHIELD CLAMP 7 WO S	100	1018160000
SHIELD CLAMP 8 WO S	100	1018170000
SHIELD CLAMP 9 WO S	100	1018180000
SHIELD CLAMP 10 WO S	100	1018110000



Shield clamps with fitting materials



Type	Qty.	Order No.
HDC SHIELD CLAMP 4.5	100	1912190000
HDC SHIELD CLAMP 5.0	100	1912200000
HDC SHIELD CLAMP 6.0	100	1912210000
HDC SHIELD CLAMP 7.0	100	1912220000
HDC SHIELD CLAMP 8.0	100	1912230000
HDC SHIELD CLAMP 9.0	100	1912240000
HDC SHIELD CLAMP 10.0	100	1912250000
HDC SHIELD CLAMP 14.0	100	1002820000



PE and mounting screws



Type	Qty.	Order No.
HDC PE HA SCREW M4x5,5	50	1025660000
HDC PE HE SCREW M4x7,8	50	1025670000
HDC PE HD/ HDD/CF SCREW M4x6	50	1029440000
HDC PE HSB/S SCREW M5x8	50	1029470000
HDC PE S6/6 SCREW M4x8	50	1029520000
HDC FIXING SC SIZE1 M3x6	50	1168850000
HDC FIXING SCREW M3x10	50	1029510000

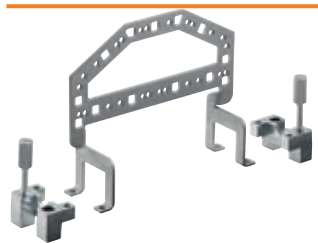


HDC GRIP PANEL

Technical data

Use	KLBÜ and shield clamps can be used Cable ties can be used for fixing cable
Suitable for the series:	HE, HEE HD, HDD HVE HSB
Material	Steel
Surface	Galvanised
Temperature range	-40 °C to 125 °C

Grip panel with screw adapter

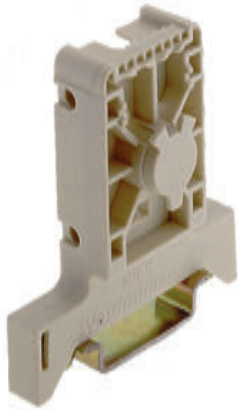


Type	Size	Qty.	Order No.
HDC GRIP PANEL 3 ADAPT	3	1	1444680000
HDC GRIP PANEL 4 ADAPT	4	1	1444710000
HDC GRIP PANEL 6 ADAPT	6	1	1444720000
HDC GRIP PANEL 8 ADAPT	8	1	1444730000

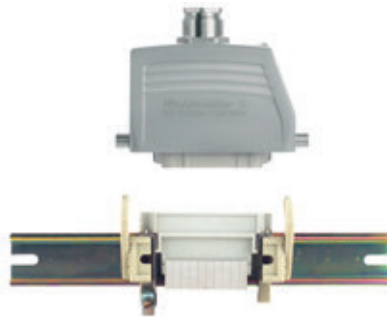


Other accessories

Locking foot for TS 35 mounting rail



Locking hook



Example: DSTV-TS

Ordering data

Type	Qty.	Order No.
DSTV-TS 6-24	10	1595220000

Note:
For all inserts apart from HA and all inserts of size 1

Ordering data

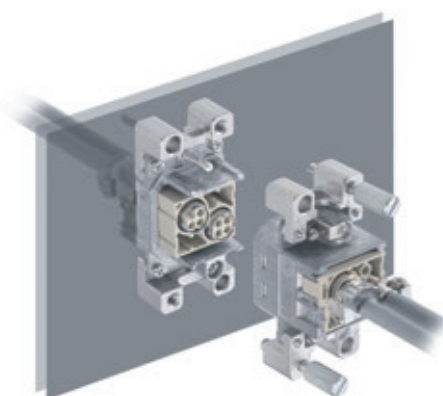
Type	Qty.	Order No.
DSTV-TS 6 VH	10	1595230000
DSTV-TS 10-24 VH	10	1595240000

Note:
For all inserts apart from HA and all inserts of size 1

HDC screw adapter

The screw adapter is an IP20 installation solution with a full metal construction. The inserts are screwed into the screw adapters. The fastening screws for the inserts should be tightened with 0.5 Nm torque.

After the contact insert has been properly connected with the screw adapter, it can be mounted to the bulkhead or used as a mating connector, depending on the particular version. Three different screw adapters are possible based on the screw-in angle. The required mounting hardware is included.

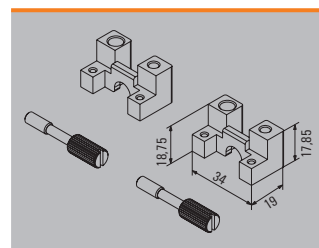


HDC ADAPTER W. SCREW



Type	Qty.	Order No.
HDC ADAPTER W. SCREW	1	1017010000

Note: Knurled screw interlock for the connector

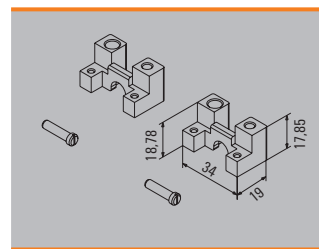


HDC SCREW ADAPTER



Type	Qty.	Order No.
HDC SCHRAUBADAPTER	1	1002790000

Note: Rectangular cut-out and M4 screws for mounting to wall panel; M3 screws for mounting the insert in the adapter

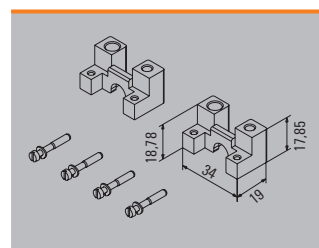


HDC SCREW ADAPTER W/O T



Type	Qty.	Order No.
HDC SCREW ADAPTER W/O T	1	1028030000

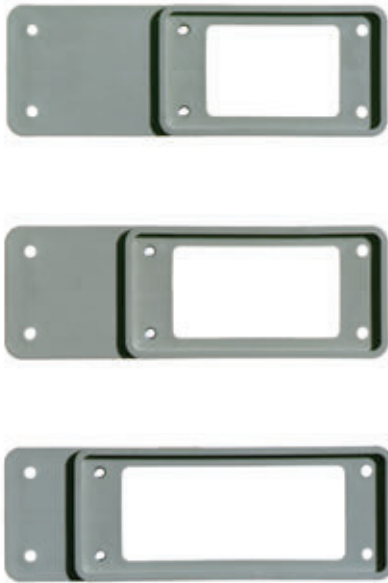
Note: Direct mounting on wall panel with rectangular cut-out and M3 screws



Size	Dimension „X“	Dimension „Y“
3	52.0 mm	65.0 mm
4	65.0 mm	78.0 mm
6	85.5 mm	98.5 mm
8	112.0 mm	125.0 mm

Size	Type	A	B	C	D	E	F
Size 3	HE	38	44	48	36	27	14
	DB	+0.2 +0.5		+0.2 +0.5	+0.2 +0.5	+0.2 +0.5	+0.2 +0.5
Size 4	HE	51	57	61	36	27	14
	TD	+0.2 +0.5		+0.2 +0.5	+0.2 +0.5	+0.2 +0.5	+0.2 +0.5
Size 6	HE	71.5	77.5	81.5	36	27	14
	16	+0.2 +0.5		+0.2 +0.5	+0.2 +0.5	+0.2 +0.5	+0.2 +0.5
Size 8	HE	98	104	108	36	27	14
	24	+0.2 +0.5		+0.2 +0.5	+0.2 +0.5	+0.2 +0.5	+0.2 +0.5

Adapter plates, plastic



Cover plates



Adapter plates, SUB-D



Technical data

Adapter plates, plastic	
Material	PA6
Sealing material	TPE-S
Colour	orange/grey
Temperature range	-30 °C to +110 °C
Class of protection	IP 65

Technical data

Cover plates	
Material	PAG / FE
Sealing material	TPE-S
Colour	orange/grey
Temperature range	-30 °C to +110 °C
Class of protection	IP 65

Technical data

Adapter plates, SUB-D	
Material	PA6
Sealing material	
Colour	grey
Temperature range	-30 °C to +110 °C
Class of protection	

Ordering data

Type	Size	Qty.	Order No.
orange			
ADP-8/3-OR	3	10	1664980000
ADP-8/4-OR	4	10	1665000000
ADP-8/6-OR	6	10	1665020000
grey			
ADP-8/3-GR	3	10	1664990000
ADP-8/4-GR	4	10	1665010000
ADP-8/6-GR	6	10	1665030000

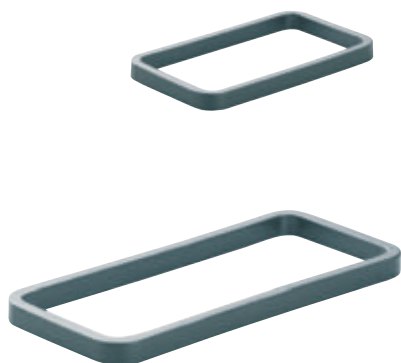
Ordering data

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-OR	8	10	1664960000

Ordering data

Type	Aperture	Qty.	Order No.
Size 3 / Plastic			
ADS/6-1/9	1 x SUB-D 9	10	1665940000
ADS/6-2/9	2 x SUB-D 9	10	1665950000
ADS/6-1/15	1 x SUB-D 15	10	1666200000
ADS/6-2/15	2 x SUB-D 15	10	1666210000
Size 4 / Plastic			
ADS/10-1/25	1 x SUB-D 25	10	1666220000
ADS/10-2/25	2 x SUB-D 25	10	1666230000
Size 6 / Plastic			
ADS/16-1/25	1 x SUB-D 25	10	1666320000
ADS/16-2/25	2 x SUB-D 25	10	1666330000
ADS/16-1/37	1 x SUB-D 37	10	1666340000
ADS/16-2/37	2 x SUB-D 37	10	1666350000
ADS/16-1/50	1 x SUB-D 50	10	1666460000

Profile seals



Gaskets



Seals



Ordering data

Type	Size	Qty.	Order No.
HDC DG 07A	1	5	1044580000
HDC DG 10A	2	5	1044590000
HDC DG 06B	3	5	1044610000
HDC DG 10B	4	5	1044620000
HDC DG 16A	5	5	1044600000
HDC DG 16B	6	5	1044630000
HDC DG 32A	7	5	1044640000
HDC DG 24B	8	5	1044650000
HDC DG 48A 32B	9/10	5	1044660000
HDC DG 48B	12	5	1044670000

Note:
for bulkhead and coupling housings

Ordering data

Type	Size	Qty.	Order No.
HDC FLDG 04A	1	5	1044480000
HDC FLDG 10A	2	5	1044490000
HDC FLDG 06B	3	5	1044500000
HDC FLDG 10B	4	5	1044510000
HDC FLDG 16A	5	5	1044520000
HDC FLDG 16B	6	5	1044530000
HDC FLDG 32A	7	5	1044540000
HDC FLDG 24B	8	5	1044550000
HDC FLDG 32B	10	5	1044560000
HDC FLDG 48B	12	5	1044570000
HDC-HB10 AWVL FD	HB-10 AWVL 500		1855680000

Note:
for bulkhead housings

Ordering data

Type	Size	Qty.	Order No.
HDC FLDG 04A AW IP68		10	1987470000
HDC FLDG 04A IP68		10	1987450000
HDC FLDG 06B IP68		10	1987480000
HDC FLDG 10B IP68		10	1987500000
HDC FLDG 16B IP68		10	1987520000
HDC FLDG 24B IP68		10	1987540000
HDC FLDG 24B XXL IP68		10	1987550000
HDC DG 04A IP68		10	1987460000
HDC DG 06B IP68		10	1987490000
HDC DG 10B IP68		10	1987510000
HDC DG 16B IP68		10	1987530000
HDC DG 24B IP68		10	1525270000
HDC DG 24B XXL IP68		10	1987570000

Other accessories

Protective transportation cap for IP65 housings

The protective transportation caps are available for sizes 3, 4, 6 and 8. They can be used with the IP65 standard housings. The transportation caps are easy to attach and provide IP20 protection. They can be used with all bottom housing sections, bulkhead housings or base housings. A lanyard (not included) can be threaded through the built-in eyelet.

Technical data

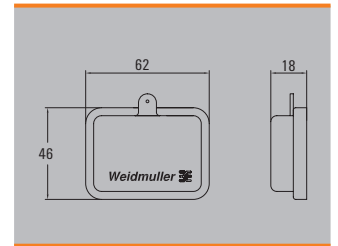
Material	Polypropylene
UL94	HB
Colour	white/transparent
Temperature range	-55 °C ... +110 °C
Class of protection	IP20

Protective transportation cap for IP65 housings

HDC 06B DC



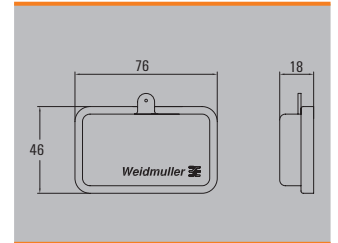
Type	Qty.	Order No.
HDC 06B DC	10	1215900000



HDC 10B DC



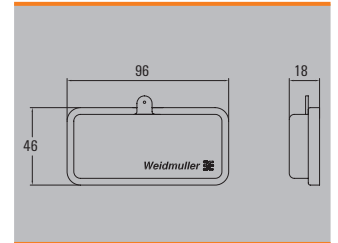
Type	Qty.	Order No.
HDC 10B DC	10	1215910000



HDC 16B DC



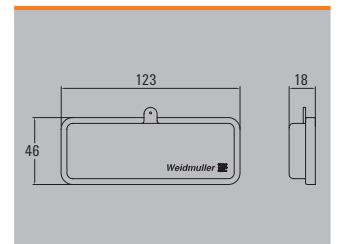
Type	Qty.	Order No.
HDC 16B DC	10	1215920000



HDC 24B DC



Type	Qty.	Order No.
HDC 24B DC	10	1215930000



Tools

Tools	Cutting	J.2
	Crimping	J.3
	Screwdrivers	J.10
	Miscellaneous	J.16

Cutting

Hydraulic sheet holes

Incl. accessories:

- 1 hydraulic screw Ø 19 mm
- 1 hydraulic screw Ø 19 x 9.5 mm
- 1 HSS pre-drill Ø 10 mm
- 1 spacer nut set (3-part)
- 1 bridge

IE-KO-HAT



- Overpressure valve protects against overloading
- Cylinder head angled 90°
- Angled head can be rotated through 360°
- Ergonomic handle springs back automatically
- The piece of waste no longer becomes jammed thanks to 3-fold cleaving
- Hydraulic punch manufactured from high-strength aluminium (approx. 40% less weight)

KOK



- Rectangular splitting stamp for heavy-duty connectors

Technical data

Maximum steel-sheet punching performance	
Round holes from 1 to Ø 85 mm	-
Round holes from 2 to Ø 64 mm	-
Square holes up to	-
Rectangular holes up to	-
Maximum stainless steel sheet punching performance	
Round holes from 3 to Ø 64 mm	-
Tool data	
Length x width x height	mm
Weight	kg
Punching force	kN
Max. operating pressure	bar
Note	

Ordering data

Version
Note

Accessories

Type	Qty.	Order No.
KOHS 19	1	9205010000
KOHS 9.5+19	1	9205000000
KOPD 10.0	1	9205020000
Splitting stamp on the next page		
Note		

IE-KO-HAT	
2,0 mm F = 370 N/mm ²	
3,0 mm F = 370 N/mm ²	
68 x 68 mm; 2,0 mm F = 370 N/mm ²	
36 x 112 mm; 2,0 mm F = 370 N/mm ²	
2,5 mm F = 600 N/mm ²	
290 / 120 / 70	
1.9	
75	
650	
Note	

Type	Qty.	Order No.
IE-KO-HAT	1	1966810000
Note		

Type	Description	Qty.	Order No.
KOK 52 x 36	6-pole	1	9204820000
KOK 65 x 36	10-pole	1	9204830000
KOK 86 x 36	16-pole	1	9204850000
KOK 86 x 36	24-pole	1	9204850000
Note: the fastening points are centre-punched.			

Crimping tools for other contacts

- Ratchet for precise crimping
- Release option in the event of incorrect operation
- With end stop for exact positioning of the contacts

CTX CM 1.6/2.5 / CTX CM 3.6

0.14...10 mm²



CTX CM 1.6/2.5

- Turned HD contacts
- Turned HE contacts
- ~AWG 26...12
- 0.14...4.0 mm²

CTX CM 3.6

- Turned HD contacts
- M3 contacts
- ~AWG 12...8
- 4.0...10 mm²



CTIN CM 1.6/2.5 / CTIN 3.6

0.14...10 mm²



CTIN CM 1.6/2.5

- Turned HD and HE contacts
- Turned HX contacts
- 4-indent crimp
- ~AWG 26...10
- 0.14...6.0 mm²

CTIN CM 3.6

- Turned HX contacts
- M3 contacts
- 4-indent crimp
- ~AWG 16...8
- 1.5...10 mm²



Technical data

Description of contact	
Type of contact	
Crimping range	mm ²
Crimping range 1 (with multiple crimping positions)	mm ²
Crimping range 2 (with multiple crimping positions)	mm ²
Crimping range 3 (with multiple crimping positions)	mm ²
Crimping range 4 (with multiple crimping positions)	mm ²
Crimping range 5 (with multiple crimping positions)	mm ²
Tool data	
Length	mm
Weight	g
Note	

Ordering data

Version	
Note	

CTX CM 1.6/2.5	CTX CM 3.6
Turned contacts	Turned contacts
0.14...4	4...10
0.14...0.5	4
0.75...1	6
1.5	10
2.5	
4	
250	250
730	730

Type	Qty.	Order No.
CTX CM 1.6/2.5	1	9018490000
CTX CM 1.6/2.5 ZERT	1	9013690000
CTX CM 3.6	1	9018480000
CTX CM 3.6 ZERT	1	1270320000

A large selection of contacts can be found in our current Heavy-duty Connectors Catalogue

CTIN CM 1.6/2.5	CTIN CM 3.6
Turned contacts	Turned contacts
0.14...6	1.5...10
0.14...6	1.5...10
230	230
1220	1220

Type	Qty.	Order No.
CTIN CM 1.6/2.5	1	9205430000
CTIN CM 3.6	1	9205440000

A large selection of contacts can be found in our current Heavy-duty Connectors Catalogue

Crimping

Crimping tools for connectors

- For insulated and uninsulated cable lugs and connectors
- Mechanical function ensures safe and manageable operations under different environmental conditions
- Precision engineering means a high pressing force with little physical effort
- Fast feed helps pre-centreing and extraction of the connecting parts
- Ratchet for high-quality, flawless crimping
- Release option in the event of incorrect operation
- Comprehensive range of standard-compliant crimp inserts

MTR 160

10...240 mm²

- ~AWG 8
- Tubular cable lugs from 10...240 mm²

MTR 300

10...300 mm²

- ~AWG 8
- Tubular cable lugs from 10...300 mm²
- Retractable head for easy withdrawal of crimped connection
- Turntable presses: 25...240 sm; 35...240 se

Technical data

Description of contact	
Pressing force / Deviation	kN/mm
Crimping range for copper tube connector	mm ²
Crimping range for insulated connectors	mm ²
Tool data	
Length / Weight	mm/kg
Note	

Ordering data

Version
Note

Accessories

Type	Qty.	Order No.
MTR 160	1	9017270000
Note	Crimping inserts see on the following pages	

MTR 160		
Pressing force / Deviation	100 / 16	
Crimping range for copper tube connector		
Crimping range for insulated connectors		
Tool data		
Length / Weight	540 / 4	
Note		
For more details see crimp inserts on the following pages sm: sector conductor stranded; se: sector single conductor		

Type	Qty.	Order No.
MTR 160	1	9017250000
Note	Crimping inserts see on the following pages	



Type	Qty.	Order No.
MTR 160	1	9017270000
Note	Crimping inserts see on the following pages	

MTR 300		
Pressing force / Deviation	100 / 16	
Crimping range for copper tube connector	10...300	
Crimping range for insulated connectors	10...120	
Tool data		
Length / Weight	540 / 4	
Note		
For more details see crimp inserts on the following pages sm: sector conductor stranded; se: sector single conductor		



Type	Qty.	Order No.
MTR 300	1	9021390000
Note	Crimping inserts see on the following pages	

Type	Qty.	Order No.
MTR 300	1	9021420000
Note	Crimping inserts see on the following pages	

MTR 160

	Cross-section [mm ²]	Code to DIN 48083	Crimping width [mm]	Order No.
Die sets for copper tube cable lugs and connectors DIN 46235				
	10	6	7,0	9020900000
	16	8	7,0	9020910000
	25	10	7,0	9020920000
	35	12	7,0	9020930000
	50	14	7,0	9020940000
	70	16	7,0	9020950000
	95	18	7,0	9020960000
	120	20	7,0	9020970000
	150	22	7,0	9020980000
	185	25	7,0	9020990000
	240	28	7,0	9021000000

MTR 300

	Cross-section [mm ²]	Code to DIN 48083	Crimping width [mm]	Order No.
Die sets for copper tube cable lugs and connectors DIN 46235				
	10	6	7,0	9021430000
	16	8	7,0	9021440000
	25	10	7,0	9021450000
	35	12	7,0	9021460000
	50	14	7,0	9021470000
	70	16	7,0	9021480000
	95	18	7,0	9022290000
	120	20	7,0	9022300000
	150	22	7,0	9022310000
	185	25	7,0	9022320000
	240	28	7,0	9022330000
	300	32	7,0	9022340000

Crimping

Crimping tools for connectors

- For insulated and uninsulated cable lugs and connectors
- Mechanical function ensures safe and manageable operations under different environmental conditions
- Precision engineering means a high pressing force with little physical effort
- Fast feed helps pre-centring and extraction of the connecting parts
- Ratchet for high-quality, flawless crimping
- Release option in the event of incorrect operation
- Comprehensive range of standard-compliant crimp inserts

MTR 110

6...120 mm²



- ~AWG 16...0000
- Tubular cable lugs from 6...120 mm²
- Wire-end ferrules from 6...50 mm²
- Retractable head for easy withdrawal of crimped connection



Technical data

Description of contact	
Pressing force / Deviation	kN/mm
Crimping range for copper tube connector	mm ²
Crimping range for insulated connectors	mm ²
Crimping range of wire end ferrule	mm ²
Tool data	
Length / Weight	mm/kg

Note

Ordering data

Version

Note

Accessories

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Note

MTR 110		
Pressing force / Deviation		55 / 10
Crimping range for copper tube connector		6...120
Crimping range for insulated connectors		10...16
Crimping range of wire end ferrule		6...50
Length / Weight		420 / 2

For more details see crimp inserts on the following pages

Type	Qty.	Order No.
MTR 110	1	9018020000

Type	Qty.	Order No.
MTR 110	1	9018040000
Crimping inserts see on the following pages		

Crimping inserts hexagonal-shape

- for crimping compression copper cable lugs DIN 46 235
- compression copper connectors DIN 46 267 part 1
- aluminium and aluminium/copper cable lugs and connectors



Ordering data

Code no.	Cu mm ²	Al mm ²	Crimp. width mm	Order No.
5	6	-	7	1500930000
6/16	10/70	-/50	7/5	1500940000
8 /12	16/35	-/16+25	12/10	1500950000
10/14	25/50	10/35	12/5	1500970000
18	95	70	5	1500980000
20	120	-	5	1500990000
22	150*		5	1994540000

* only EPG 45

Crimping tools for HighPower

Crimping tools for HighPower 250 A / 550 A

EPG 45 hydraulic battery crimping tool



Type	Order No.
EPG 45	1500830000

Hexagonal crimp inserts for EPG 45



Ident. No.	CU mm ²	Crimping width	Type	Order No.
5	6	7	ES MTR110 HEX 6	1500930000
6/16	10/70	7/5	ES MTR110 HEX 10/70	1500940000
8/12	16/35	12/10	ES MTR110 HEX 16/35	1500950000
10/14	25/50	12/5	ES MTR110 HEX 25/50	1500970000
18	95	5	ES MTR110 HEX 95	1500980000
22	150	5	ES EPG 45 HEX 150	1994540000
20	120	5	ES MTR110 HEX 120	1500990000

APG 55 hydraulic battery crimping tool



Type	Order No.
APG 55	1501390000

Hexagonal crimp inserts for APG 55



Ident. No.	CU mm ²	Crimping width	Type	Order No.
5	6	7	ES APG/HPG55 HEX 6	1501530000
6/16	10/70	7	ES APG/HPG55 HEX 10/70	1501540000
8/12	16/35	12/5	ES APG/HPG55 HEX 16/35	1501550000
10/14	25/50	12/5	ES APG/HPG55 HEX 25/50	1501570000
18	95	5	ES APG/HPG55 HEX 95	1501580000
20	120	5	ES APG/HPG55 HEX 120	1501590000
22	150	5	ES APG/HPG55 HEX 150	1501600000
25	185	5	ES APG/HPG55 HEX 185	1501620000

APG 80 hydraulic battery crimping tool



Type	Order No.
APG 80	1502390000

Hexagonal crimp inserts for APG 80



Ident. No.	CU mm ²	Crimping width	Type	Order No.
5	6	7	ES APG/HPG80 HEX 6	1502600000
6	10	7	ES APG/HPG80 HEX 10	1502620000
8	16	12	ES APG/HPG80 HEX 16	1502630000
10	25	12	ES APG/HPG80 HEX 25	1502640000
12	35	12	ES APG/HPG80 HEX 35	1502650000
14	50	12	ES APG/HPG80 HEX 50	1502670000
16	70	12	ES APG/HPG80 HEX 70	1502680000
18	95	10	ES APG/HPG80 HEX 95	1502690000
20	120	10	ES APG/HPG80 HEX 120	1502700000
22	150	5	ES APG/HPG80 HEX 150	1502720000
25	185	5	ES APG/HPG80 HEX 185	1502730000
28	240	5	ES APG/HPG80 HEX 240	1502740000
32	300	7	ES APG/HPG80 HEX 300	1502750000

Crimping

Crimping tools for other contacts

- Ratchet for precise crimping
- Release option in the event of incorrect operation

IE-CT-SC-GOF / IE-CT-LC-GOF

Crimping tools for IP 20 + IP 67 connectors



- For fibre-optic SC/ST, IP 20 and IP 67 connectors
- For fibre-optic LC and IP 67 connectors

IE-CT-SC-POF / IE-CT-SC-GOF-P

Crimping tools for IP 20 + IP 67 connectors



- For polymer fibre-optic SC/ST, IP 20 and IP 67 connectors
- For fibre-optic, Profinet and Mobil cable SC/ST and IP 67 connectors

J

Technical data

Tool data
Length
Weight
Note

IE-CT-SC-GOF	IE-CT-LC-GOF
250	250
730	730

IE-CT-SC-POF	IE-CT-SC-GOF-P
250	250
730	730

Ordering data

Version
Note

Type	Qty.	Order No.
IE-CT-SC-GOF	1	9205320000
IE-CT-LC-GOF	1	9205330000

Type	Qty.	Order No.
IE-CT-SC-POF	1	9205340000
IE-CT-SC-GOF-P	1	9205350000

HTX-HDC/POF**POF crimping**

Crimping of „polymer optical fibre“ (POF) fibre-optical contacts.

- For plug and socket
- Ratchet for precise crimping
- Unlocks in case of incorrect operation
- Locator for precise contact positioning

Contacts:

- Fibre-optic cable HD contact socket for Ø1.0 mm POF
- Fibre-optic cable HD contact pin for Ø 1.0 mm POF

Ordering data

Type	Qty.	Order No.
HTX-HDC/POF	1	9010950000

Technical data

Length	200 mm
Weight	438 g

**PB LWL/POF / PS LWL/POF****POF polishing**

For processing the cut surface of fibre-optic cables with polymer optical fibre (POF).

- Buffing disc (PS LWL/POF)
- Buffing sheet (PB LWL/POF)

Ordering data

Type	Qty.	Order No.
PB LWL/POF	1	9020400000
PS LWL/POF	1	9020390000

**AM LWL/POF****POF stripping**

Stripping fibre-optic cables. Fibre-optic cable with polymer optical fibres (POF).

- Longitudinal stop with scale is built into the tool
- Stripping direction is lengthwise to the fibre
- No damage to the optical fibre

Ordering data

Type	Qty.	Order No.
AM LWL/POF	1	9020360000

**LWL-stripax**

Stripping and cutting tool for plastic fibre-optic cables with 1 mm diameter inner conductor

- Stripping length adjustable via end stop
- Automatic opening of the clamping jaws after stripping

Ordering data

Type	Qty.	Order No.
M-D-STRIPAX LWL	1	9003750000

**Technical data**

Max. stripping performance	
Cable type	
Conductor diameter	-
Stripping length, max.	-
Tool data	
Length	mm
Weight	g
Note	

M-D-STRIPAX LWL	
POF conductor with an inner conductor of 1 mm Ø	
...	1
Stripping length, max.	7,5
Length	135
Weight	110
POF: polymer optical fibre	

Screwdrivers

Uninsulated torque screwdrivers



DMS manual

Torque screwdriver

EN ISO 6798, BS EN 26789, ASME B107.14M



Type	Size / AF	a	b	c	Order No.
DMS MANUELL 0,5-1,7	0.5 - 1.7 Nm				9918370000
DMS MANUELL 2,0-8,0	2.0 - 8.0 Nm				9918380000

WK K S

Interchangeable bits for torque screwdrivers

Drive output acc. to DIN 5264, ISO 2380/1



WK S 0,4x2,5	max. 0.4 Nm	0.4	2.5	175	9918520000
WK S 0,5x3,0	Max. 0.6 Nm	0.5	3	175	9918530000
WK S 0,6x3,5	Max. 1.1 Nm	0.6	3.5	175	9918540000
WK S 0,8x4,0	Max. 2.5 Nm	0.8	4	175	9918550000
WK S 1,0x5,5	Max. 3.8 Nm	1	5.5	175	9918560000

WK K PZ

Interchangeable bits for torque screwdrivers

Drive output acc. to DIN 5260-PZ, ISO 8764/1-PZ



WK K PZ0	Max. 9 Nm			175	9918600000
WK K PZ1	Max. 3.8 Nm			175	9918610000
WK K PZ2	Max. 5.5 Nm			175	9918620000

WK K PH

Interchangeable bits for torque screwdrivers

Drive output acc. to DIN 5260-PH, ISO 8764/1-PH



WK K PH0	Max. 9 Nm			175	9918570000
WK K PH1	Max. 3.8 Nm			175	9918580000
WK K PH2	Max. 5.5 Nm			175	9918590000

WGK 1/4 C6.3 E6.3

Interchangeable bit with bit holder for torque screwdrivers

Drive output: 1/4" C6.3 and 1/4" E6.3



WK 1/4 C6,3 E6,3					9920510000
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VDE-insulated torque screwdrivers



DMSI manual

VDE-insulated torque screwdriver
EN ISO 6798, BS EN 26789, ASME B107.14M



Type	Size / AF	a	b	c	Order No.
DMSI MANUELL 0,5-1,7	0.5 - 1.7 Nm				9918390000
DMSI MANUELL 2,0-8,0	2.0 - 8.0 Nm				9918400000

WK SI

VDE-insulated interchangeable bits for VDE-insulated torque screwdriver; drive output acc. to DIN 5264, ISO 2380/1



WK SI 0,4x2,5	max. 0.4 Nm	0.4	2.5	200	9918410000
WK SI 0,5x3,0	Max. 0.6 Nm	0.5	3	200	9918420000
WK SI 0,6x3,5	Max. 1.1 Nm	0.6	3.5	200	9918430000
WK SI 0,8x4,0	Max. 2.5 Nm	0.8	4	200	9918440000
WK SI 1,0x5,5	Max. 3.8 Nm	1	5.5	200	9918450000

WK IK PH

VDE-insulated interchangeable bits for VDE-insulated torque screwdriver; drive output acc. to DIN 5260-PH, ISO 8764/1-PH



WK IK PH0	Max. 9 Nm			200	9918460000
WK IK PH1	Max. 3.8 Nm			200	9918470000
WK IK PH2	Max. 5.5 Nm			200	9918480000

WK IK PZ



WK IK PZ0	Max. 9 Nm			200	9918490000
WK IK PZ1	Max. 3.8 Nm			200	9918500000
WK IK PZ2	Max. 5.5 Nm			200	9918510000

WK IK SL/PH

VDE-insulated interchangeable bits for VDE-insulated torque screwdriver



WK IK SL/PH1	Max. 3.8 Nm				1318130000
WK IK SL/PH2	Max. 5.5 Nm				1318140000

Screwdrivers

Uninsulated screwdriver

Weidmüller SoftFinish®screwdriver for general applications. Bit made from fully hardened, high-alloy chromium-vanadium-molybdenum steel, matt-chrome finish.



SD S

Slotted screwdriver with rounded blade, SD DIN 5265, ISO 2380/2, drive output acc. to DIN 5264, ISO 2380/1, ChromTop tip, SoftFinish®grip



Type	Blade type	Size / AF	a	b	c	Order No.
SDS 0.4X2.0X60	B		0.4	2	60	9037160000
SDS 0.4X2.5X75	A		0.4	2.5	75	9009030000
SDS 0.5X3.0X80	A		0.5	3	80	9008320000
SDS 0.6X3.5X100	A		0.6	3.5	100	9008330000
SDS 0.6X3.5X200	A		0.6	3.5	200	9010110000
SDS 0.8X4.0X100	A		0.8	4	100	9008340000
SDS 0.8X4.5X125	A		0.8	4.5	125	9009020000
SDS 1.0X5.5X150	A		1	5.5	150	9008350000
SDS 1.2X6.5X150	A		1.2	6.5	150	9009010000

SDK PH

Crosshead screwdriver, Phillips, SDK PH DIN 5262, ISO 8764/2-PH, drive output acc. to ISO 8764-PH, chrome top tip, SoftFinish® grip



SDK PH0			3	60		9008470000
SDK PH1			4.5	80		9008480000
SDK PH2			6	100		9008490000
SDK PH3			8	150		9008500000

SDK PZ

Crosshead screwdriver, Pozidriv, SDK PZ DIN 5262, ISO 8764/2-PZ, drive output acc. to ISO 8764-PZ, chrome top tip, SoftFinish® grip



SDK PZ1			4.5	80		9008530000
SDK PZ2			6	100		9008540000
SDK PZ3			8	150		9008550000

SD TH

Torx® TH screwdriver with hole in tip of blade (tamper-resistant), SD TH for screwing Torx® and Torx®TH security screws (pin in centre of Torx® recess), ChromTop tip, SoftFinish®grip



SD TH10			10	4	80	9009180000
SD TH15			15	4	80	9009170000
SD TH20			20	4	100	9009160000

SK

Hexagonal key, SK DIN 3125, drive output acc. to DIN 475/2, SoftFinish® grip



SK 10,0x125						9009070000
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Uninsulated screwdriver

Weidmüller SoftFinish®screwdriver for general applications. Bit made from fully hardened, high-alloy chromium-vanadium-molybdenum steel, matt-chrome finish.

**Set S 2.5/3.0/4.0/5.5/PH 1/2**

6-part set: slotted and crosshead PH screwdriver set with circular blades



Type	Blade type	Size / AF	a	b	c	Order No.
SDS 0.4X2.5X75	A		0.4	2.5	75	
SDS 0.5X3.0X80	A		0.5	3	80	
SDS 0.8X4.0X100	A		0.8	4	100	
SDS 1.0X5.5X150	A		1	5.5	150	
SDK PH1				4.5	80	
SDK PH2				6	100	
SD Set S2.5-5.5/PH1/2						9009740000

Set S 2.0/2.5/3.0/3.5/4.0/5.5

6-part set: slotted screwdriver set



SDS 0.4X2.0X60	B		0.4	2	60	
SDS 0.4X2.5X75	A		0.4	2.5	75	
SDS 0.5X3.0X80	A		0.5	3	80	
SDS 0.6X3.5X100	A		0.6	3.5	100	
SDS 0.8X4.0X100	A		0.8	4	100	
SDS 1.0X5.5X150	A		1	5.5	150	
SD Set S2.0-5.5						9205560000

Screwdrivers

Weidmüller wrench set

Socket wrench manufactured from through-hardened chromium-vanadium steel, manufactured according to DIN ISO 2936 L (DIN 911), high-quality finished surface.

SK WSD S

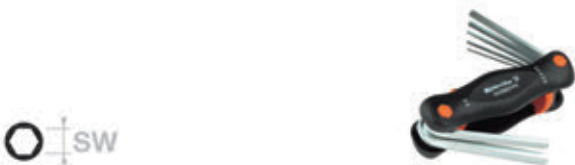
9-piece offset screwdriver set in the Prostar, with MagicRing: tightly holds standard screws in any position thanks to its spring steel ring (up to size 3), with ball head for screwing up to an angle of 25°.



Type	Size / AF	a	b	c	Order No.
	1,5				
	2				
	2,5				
	3				
	4				
	5				
	6				
	8				
	10				
SK WSD-S 1,5-10,0					9008850000

SK S

7-piece Allen key set



SKS 2,0-8,0					9008860000

SK S MR

7-piece Allen key set with ball head and MagicRing: holds standard screws (size 3 and larger) in any position thanks to its spring steel ring, with ball head for screwing up to an angle of 25°.



SKS 2,0-8,0 MR					9008870000

TH S

8-piece Torx®-TH Allen key set with hole in the bit tip (tamper-resistant), for screwing Torx® and Torx®-TH security screws (pin in centre of Torx® recess)



TH-S 9-40					9008880000

Weidmüller wrench set

Weidmüller SoftFinish®screwdriver for general applications.
 Bit made from fully hardened, high-alloy chromium-vanadium-molybdenum steel, matt-chrome finish.



System 11+1 S-PH-PZ-SK

12-piece set with interchangeable bits for slotted, cross-head PH/PZ and hexagon head screws, SoftFinish®grip



Type	Size / AF	a	b	c	Order No.
SD					
SD					
SD					
SD					
PH 1					
PH 2					
PZ 1					
PZ 2					
SK					
SK					
SK					
SYSTEM 11+1			140		9009750000

IS 4 / IS 6 / IS 8

Wrench with pegged pilot tip



Hexagon screwdriver with cross-grip made from high-quality plastic

- Nickel-plated surface
- Made from hardened chromium-vanadium steel
- Manufactured according to DIN 6911
- Designed for screws acc. to DIN 6912

IS 2 KG / IS 3 KG / IS 4 KG

Socket wrench



Hexagon screwdriver with cross-grip made from high-quality plastic

- Nickel-plated surface
- Made from hardened chromium-vanadium steel
- Manufactured according to DIN 6911
- Designed for screws acc. to DIN 6912

SDQ T15 / SDQ T20 / SDQ T40

Socket wrench, Torx®



Torx® screwdriver with cross-grip made from high-quality plastic

- Matt-chrome surface finish
- Made from hardened chromium-vanadium steel

	IS4	IS6	IS8
c	60 mm	80 mm	90 mm
Weight	27 g	61 g	89 g

	IS 3 KG	IS 4 KG
c	100 mm	100 mm
Weight	32 g	32 g

	SDQ T15	SDQ T20	SDQ T40
c	100 mm	100 mm	100 mm
Weight	32 g	32 g	32 g

Ordering data

Type	Qty.	Order No.
IS 4 DIN 6911	1	0485100000
IS 6 DIN 6911	1	0407900000
IS 8 DIN 6911	1	0235000000

Ordering data

Type	Qty.	Order No.
IS 3 KG	1	1806650000
IS 4 KG	1	1806660000

Ordering data

Type	Qty.	Order No.
SDQ T15	1	1318390000
SDQ T20	1	1318400000
SDQ T40	1	1318410000

Removal Tool CM3, HD**Removal Tool HD****CM3 Removal Tool**

Contact release tool for freeing CM3 crimp contacts.

HD Removal Tool

Contact release tool for freeing crimp contacts in the Concept CM10 module

Ordering data

Type	Qty.	Order No.
REMOVAL TOOL HD	1	1866730000
Removal Tool CM 3	1	1866710000

**Removal Tool HE****Removal Tool HE**

Contact release tool for the ConCept HE module and for releasing crimp contacts in the ConCept CM4 module

Ordering data

Type	Qty.	Order No.
Removal Tool HE	1	1866750000

**Removal Tool MHP**

Contact release tool for removing ModuPlug MHP100 contacts.

Ordering data

Type	Qty.	Order No.
Removal Tool MHP	1	1866760000

**Replacement sleeve for contact release tool****Ordering data**

Type	Qty.	Order No.
HUELSE REMOVAL TOOL HD	5	1044100000
HÜLSE REMOVAL TOOL CM 3	5	1044080000



CA 4/8 Indent

0,14...4 mm²



The CA 4/8 Indent is an electro-pneumatic-driven automatic stripper and crimper for processing loose-packed, turned male and female contacts.

The contacts are fed automatically via an oscillating conveyor set-up. Conductors and contacts in the 0.14 - 4.0 mm range (AWG 26-14) can be crimped normally with a 4/8 indent crimp shape, in compliance with MIL C-22520/1-01. The settings for stripping and crimp depth are motor-driven. The values can be saved in 50 different programs. The keyboard is used for configuration and programming. Important data, functions and errors are shown on the LCD display.

With the help of the appropriate tools, the automatic crimper may be converted to various contacts and/or conductors.

It was developed for preparing conductors in medium-batch series for stationary use.

The automatic machine can be operated quickly and easily.

- Stripping and crimping in one operation
- Electro-pneumatic drive
- Strips and crimps 0.14...4.0 mm²
- Processes loose twisted pin and socket contacts
- Rapid and simple change-over
- Vibration-feeder takes 500 loose machined contacts
- 4/8-Indent crimp conforms with MIL C-22520/1-01
- Program memory for 50 contact variations
- Stripping and crimping dimensions adjusted by means of electric motor
- The CA 4/8 Indent S features an oscillating conveyor with selective feed. It uses sensors and actuators to ensure that the contacts are correctly positioned for processing.

Technical data

	CA 4/8 Indent	CA 4/8 Indent S
Stripping range	0,14 ... 2,5 mm ²	0,25 ... 4 mm ²
Connection	220 V / 50 Hz / 115 VA	220 V / 50 Hz / 115 VA
Drive	pneumatic	pneumatic
Compressed air connection	5 bar	5 bar
Processing time	approx. 2,5 s	approx. 2,5 s
Size W x D x H	450 x 490 x 420	530 x 500 x 600
Weight	40 kg	54 kg
Options	special blade fixture (profile blade, V-radius blade), special fixing device for stranded wires, shortened insertion length, monitoring of entry, feed equipped with selection unit, control of crimping force, interface	

Note on ordering

The machine is set up using sample contacts to suit the user's requirements. For this we need the name of the manufacturer, the type designation and the cross-sections of the contacts.

Detailed quotation available on request. Additional accessories can be found in our Heavy-Duty Connectors Catalogue.

Cable entries

Cable entries	Introduction	K.2
	Standard cable glands - Plastic	K.4
	Standard cable glands - Brass	K.7
	EMC cable glands	K.11
	Standard cable glands - Stainless steel	K.14
	Standard cable glands	K.16
	Accessories - Flat IP washer	K.17
	Sealing plugs	K.21
	Compensating elements	K.24

Cable entries

Weidmüller offers a variety of add-on components for a multitude of purposes and applications in addition to its extensive Klippon® Protect range.

In addition to brass, plastic and stainless steel cable glands, there are also sealing plugs, pressure-equalising elements, adapters and relevant accessories – such as lock nuts, flat gaskets, flat washers and earthing rings – available.

To match the assembled enclosures, the cable glands meet the requirements of IP protection classes IP54 to IP69K and can be used as required in standard industrial applications, EMC applications or even explosive risk zones, plus they comply with the approvals required for this purpose.

The Ex-certified Klippon® cable glands also enable the connection of braided and shielded reinforcements with and without lead sheathing as well as the connection of steel wire and steel tape cables and conductors. They can withstand temperatures ranging from -60°C to $+180^{\circ}\text{C}$.

Depending on the cable gland variants and application, the cable glands, sealing plugs, adaptors, pressure-equalising elements and accessories are manufactured and certified according to the following standards:

- IEC/EN 62444 (Construction and design)
- IEC/EN 60529 (IP protection class testing)
- IEC/EN 60079-0 (General ATEX standard)
- IEC/EN 60079-1 (Ex d ATEX standard)
- IEC/EN 60079-7 (Ex e ATEX standard)
- IEC/EN 60079-11 (Ex i ATEX standard)
- IEC/EN 60423 (Metric thread)
- DIN 40430 (PG and NPT threads)

The range of cable glands, sealing plugs and pressure-equalising elements is available in metric (M) and high-strength (PG) threads in sizes ranging from M12 to M75 and PG7 to PG48. When choosing cable glands and sealing plugs, please refer to the table with the sealing characteristics of the O-rings, flat gaskets and seal inserts. The O-Ring or flat gasket is always intended for sealing the connecting thread on an enclosure, for example, while the seal insert of each cable gland is intended for actually sealing and crushing the connecting cable.



You should always observe the maximum drill-hole diameter when installing a cable gland, sealing plug, adaptor or pressure compensation element (e.g. onto the gland plate of an enclosure). These must not exceed the following specified maximum values / tolerances so that the protection degree of the whole enclosure can be guaranteed.

Through-hole information

M thread	Through-hole, in mm
M 12	12.2
M 16	16.2
M 20	20.2
M 25	25.2
M 32	32.2
M 40	40.2
M 50	50.2
M 63	63.2
M 75	75.2
PG thread	Through-hole, in mm
PG 7	12.4
PG 9	15.1
PG 11	18.5
PG 13.5	20.4
PG 16	22.5
PG 21	28.3
PG 29	37.4
PG 36	47.2
PG 42	54.2
PG 48	59.5

Overview of sealing materials for O-rings, flat gaskets as well as seal inserts

Abbreviation	Material	Trade name	Temperature range	Chemical resistance	Fire resistant	Shore	Free from halogens	UV resistance
TPE	Thermo-plastic elastomer	Santoprene	-40 °C to +130 °C	Hydrocarbons, oils, acids	UL94, HB	64	Yes	very good
CR	Chloroprene rubber	Neoprene	-40 °C to +130 °C	Mineral oils, greases, fuels	very good	40 - 90	No	very good
NBR	Nitrile rubber	Perbunan, Nitrile	-40 °C to +130 °C	Hydrocarbons, oils, acids, aliphatic solvents, greases, fuels	weak	40 - 90	No	good
EPDM	Ethylene-propylene-diene rubber	Keltan	-50 °C to +130 °C	Weather-, grease-, mineral oil-, chlorine- and ozone resistant, hydrocarbons	weak	20 - 90		very good
FPM	Fluoro-rubber	Viton	-25 °C to +200 °C	ozone, oxygen, mineral oils, synthetic hydraulic fluids, fuels, aromatics, many organic solvents and chemicals	weak	65 - 95		good

Abbreviations - technical data

A, L	Length in mm
L1	Length of thread in mm
D	Diameter in mm
S	Thickness in mm
S1,S2	Depth in mm
SW	Distance across flats in mm
KB	Clamping range in mm
KB ZE	Clamping range strain relief in mm
Thread	External thread
SUHB	Shroud
DR	Tightening torque in Nm
Qty.	Packing unit in pieces

Product designation

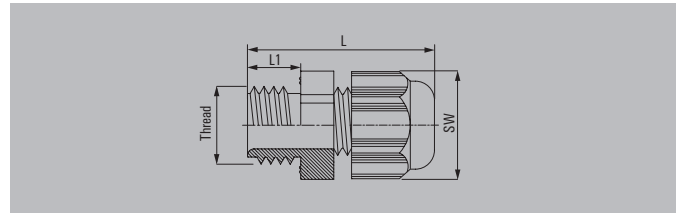
VG	Cable gland
VP	Sealing plugs
KDSU	Klippon® Double Seal Universal
KDSW	Klippon® Double Seal for SWA
KDSX	Klippon® Double Seal for SWB/STA
KSG	Klippon® Standard Gland
KUB	Klippon® Universal Barrier
KSPA	Klippon® Stopping Plug Type A
KSPMH	Klippon® Stopping Plug Mushroom
KSWN	Klippon® Sealing Washer Nylon
KSWF	Klippon® Sealing Washer Red Fibre
KSP	Klippon® Shroud PVC/Silicone
SKMU	Hexagon nut
DAE	Pressure compensation element
BD	Breather drain (compensation element)
SZS	Serrated Star Washers
ZE	Strain relief
EMV	Electromagnetic compatibility
EA	Earthing ring
SKS	Spiral kink protection
GWDR	Threaded sealing ring or IP washer

Standard cable glands - Plastic

Cable glands - Plastic - IP67



Inexpensive cable gland for industrial applications, without approvals.



Technical data

Material / Colour	Polyamide 6 / Light Grey / RAL 7035
Seal insert	NBR
Temperature range	-20 °C...100 °C
Protection degree	IP67
Flammability rating	V-2
Note	Version with moulded sealing lip Length L varies depending on the cable diameter used

Ordering data

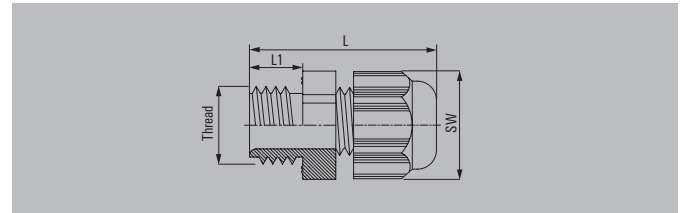
Type	Thread	KB	L/L1	SW	DR	Qty.	Order No.
metric							
VG M12-K67	M 12	3.00-6.50	30.5 / 8	15	2	100	1909660000
VG M16-K67 4-8	M 16	4.00-8.00	34.5 / 8	19	2.5	50	1909670000
VG M16-K67 5-10	M 16	5.00-10.00	40 / 10	22	2.5	50	1909680000
VG M20-K67 6-12	M 20	6.00-12.00	39.5 / 10	24	3.5	50	1909690000
VG M20-K67 10-14	M 20	10.00-14.00	41 / 10	27	3.5	50	1909700000
VG M25-K67	M 25	13.00-18.00	47 / 10	33	3.5	25	1909710000
VG M32-K67	M 32	18.00-25.00	56 / 15	42	5	20	1909720000
VG M40-K67	M 40	22.00-32.00	69.5 / 18	53	5	10	1909730000
VG M50-K67	M 50	30.00-38.00	71 / 18	60	8	10	1909740000
VG M63-K67	M 63	34.00-44.00	71 / 18	65	12	10	1909750000
PG							
VG PG7-K67	PG 7	3.00-6.50	30 / 8	15	1.5	100	1909760000
VG PG9-K67	PG 9	4.00-8.00	34.5 / 8	19	1.5	50	1909770000
VG PG11-K67	PG 11	5.00-10.00	37 / 8	22	2	50	1909780000
VG PG13,5-K67	PG 13.5	6.00-12.00	39 / 10	24	3	50	1909790000
VG PG16-K67	PG 16	10.00-14.00	41 / 10	27	3.5	50	1909800000
VG PG21-K67	PG 21	13.00-18.00	48 / 11	33	8	25	1909810000
VG PG29-K67	PG 29	18.00-25.00	52 / 11	42	9	20	1909820000
VG PG36-K67	PG 36	22.00-32.00	64 / 13	53	11	10	1909830000
VG PG42-K67	PG 42	30.00-38.00	66.5 / 13	60	14	10	1909840000
VG PG48-K67	PG 48	34.00-44.00	67.5 / 14	65	14	10	1909850000

Note Integrated strain relief, halogen-free without sealing ring.

Cable glands - Plastic - IP68



Plastic cable gland with integrated strain relief for industrial applications requiring IP68 protection.



Technical data

Material / Colour	Polyamide 6 / Light Grey / RAL 7035
Seal insert	CR
Temperature range	-30 °C...100 °C
Protection degree	IP67, IP68 - 5 bar (30 min.)
Flammability rating	V-2
Note	Version with moulded sealing lip Length L varies depending on the cable diameter used

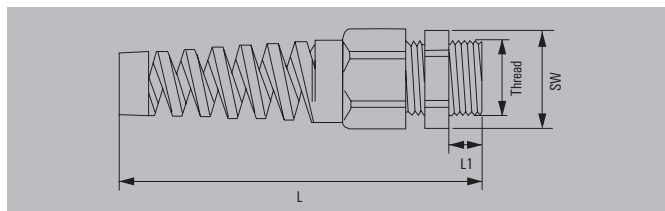
Ordering data

Type metric	Thread	KB	L/L1	SW	DR	Qty.	Order No.
VG M12-1/K68	M 12	3.00-6.50	30.5 / 8	15	2	100	1772280000
VG M16-1/K68	M 16	4.00-8.00	34.5 / 8	19	2.5	50	1909860000
VG M16 - K 68	M 16	5.00-10.00	40 / 10	22	2.5	50	1772290000
VG M20-1/K68	M 20	6.00-12.00	39.5 / 10	24	3.5	50	1772300000
VG M25-1/K68	M 25	11.00-17.00	43 / 8	29	3.5	25	1909870000
VG M25 - K 68	M 25	13.00-18.00	47 / 10	33	3.5	25	1772310000
VG M32-1/K68	M 32	15.00-21.00	52 / 10	36	5	20	1909880000
VG M32 - K 68	M 32	18.00-25.00	56 / 15	42	5	20	1772320000
VG M40-1/K68	M 40	19.00-28.00	57 / 10	46	5	10	1909890000
VG M40 - K 68	M 40	22.00-32.00	69.5 / 18	53	5	10	1772330000
VG M50 - K 68	M 50	30.00-38.00	71 / 18	60	8	10	1772340000
VG M63-1/K68	M 63	34.00-44.00	71 / 18	65	12	10	1772350000
PG							
VG 7-K68	PG 7	3.00-6.50	30 / 8	15	1.5	100	1568970000
VG 9-K68	PG 9	4.00-8.00	34.5 / 8	19	1.5	50	1568980000
VG 11-K68	PG 11	5.00-10.00	37 / 8	22	2	50	1568990000
VG 13,5-K68	PG 13.5	6.00-12.00	39 / 10	24	3	50	1569000000
VG 16-K68	PG 16	10.00-14.00	42 / 10	27	3.5	50	1569010000
VG 21-K68	PG 21	13.00-18.00	48 / 11	33	8	25	1569020000
VG 29-K68	PG 29	18.00-25.00	52 / 11	42	9	20	1569030000
VG 36-K68	PG 36	22.00-32.00	64.5 / 13	53	11	10	1569040000
VG 42-K68	PG 42	30.00-38.00	66.5 / 13	60	14	10	1569050000
VG 48-K68	PG 48	34.00-44.00	67.5 / 14	65	14	10	1718770000
Note	Long-thread version on request, halogen-free without sealing ring						

Cable glands - Plastic - SKS



Plastic cable gland with spiral bending protection specially suited for flexible connections.



Technical data

Material / Colour	Polyamide 6 / Light Grey / RAL 7035
Seal insert	CR
Temperature range	-20 °C...100 °C
Protection degree	IP68 - 5 bar (30 min.)
Flammability rating	V-2
Note	Version with moulded sealing lip Length L varies depending on the cable diameter used

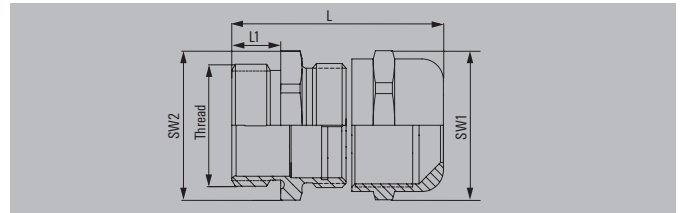
Ordering data

Type	Thread	KB	L/L1	SW	DR	Qty.	Order No.
metric							
VG M12-K68 SKS	M 12	3.00-6.50	63.5 / 8	15	2	100	1776700000
VG M16-K68 SKS	M 16	5.00-10.00	94.5 / 15	22	2.5	50	1776710000
VG M20-K68 SKS 6-12	M 20	6.00-12.00	101.5 / 11	24	3.5	50	1778860000
VG M20-K68 SKS 10-14	M 20	10.00-14.00	116 / 15	27	3.5	25	1776720000
VG M25-K68 SKS	M 25	13.00-18.00	132.5 / 15	33	3.5	25	1776730000
PG							
VG 7-K68 SKS	PG 7	3.00-6.50	63 / 8	15	1.5	50	1720470000
VG 9-K68 SKS	PG 9	4.00-8.00	74 / 8	19	1.5	50	1720480000
VG 11-K68 SKS	PG 11	5.00-10.00	87 / 8	22	2	100	1720490000
VG 13.5-K68 SKS	PG 13.5	6.00-12.00	98 / 9	24	3	50	1720500000
VG 16-K68 SKS	PG 16	10.00-14.00	112 / 10	27	3.5	25	1720510000
VG 21-K68 SKS	PG 21	13.00-18.00	130 / 11	33	8	20	1720520000
Note	VDE for metric variants, halogen free, without sealing ring						

Cable glands - Brass - IP68



Standard brass cable gland for industrial applications that require IP68 or IP69K protection.



Technical data

Material	Brass, nickel-plated
O-ring / Seal insert	NBR / CR
Temperature range	-40 °C...100 °C
Clamp insert	Polyamide
Protection degree with GWDR	IP54, IP66, IP67, IP68 - 5 bar (30 min.), IP69K
Note	Length „L“ varies depending on the cable diameter used; IP69K applies to all metric cable glands; the following thread sizes PG29, PG36, PG42 and PG48 are excluded from IP69K.

Ordering data

Type	Thread	KB	L/L1	SW1/SW2	DR	Qty.	Order No.
metric							
VG M12 - MS 68	M 12	3.00-6.50	28 / 6	14 / 14	3	50	1772200000
VG M16 - MS 68	M 16	4.00-8.00	30 / 7	17 / 18	4	50	1772210000
VG M16-1/MS68	M 16	5.00-10.00	35.5 / 7	20 / 20	7	50	1909910000
VG M20 - MS 68	M 20	6.00-12.00	34.5 / 8	22 / 22	5.5	50	1772220000
VG M25 - MS 68	M 25	10.00-14.00	35.7 / 8	24 / 27	6	25	1772230000
VG M25-1/MS68	M 25	11.00-17.00	40.5 / 8	27 / 27	8	25	1909920000
VG M32 - MS 68	M 32	13.00-18.00	42 / 9	30 / 34	6	25	1772240000
VG M32-1/MS68	M 32	15.00-21.00	44 / 8	34 / 34	8	10	1909930000
VG M40 - MS 68	M 40	18.00-25.00	47 / 9	40 / 43	12	10	1772250000
VG M40-1/MS68	M 40	19.00-28.00	52.5 / 9	43 / 43	12	5	1909940000
VG M50 - MS 68	M 50	22.00-32.00	57 / 9	50 / 55	18	5	1772260000
VG M50-1/MS68	M 50	27.00-38.00	61 / 9	58 / 58	18	5	1909950000
VG M63 - MS 68	M 63	34.00-44.00	67 / 14	64 / 68	25	5	1772270000
PG (IP69K)							
VG 7-MS68	PG 7	3.00-6.50	28 / 6	14 / 14	3	50	1569060000
VG 9-MS68	PG 9	4.00-8.00	29.5 / 6	17 / 17	4	50	1569070000
VG 11-MS68	PG 11	5.00-10.00	32 / 6	20 / 20	5	50	1569080000
VG 13.5-MS68	PG 13.5	6.00-12.00	31 / 6.5	22 / 22	5.5	50	1569090000
VG 16-MS68	PG 16	10.00-14.00	34.5 / 6.5	24 / 24	7	25	1569100000
VG 21-MS68	PG 21	13.00-18.00	39.7 / 7.2	30 / 30	10	25	1569110000
PG (IP68)							
VG 29-MS68	PG 29	18.00-25.00	46.5 / 8	40 / 40	15	10	1569120000
VG 36-MS68	PG 36	22.00-32.00	57 / 9	50 / 50	20	5	1569130000
VG 42-MS68	PG 42	30.00-38.00	60.5 / 12	58 / 58	27	5	1569140000
VG 48-MS68	PG 48	34.00-44.00	69 / 14	64 / 64	35	5	1718790000

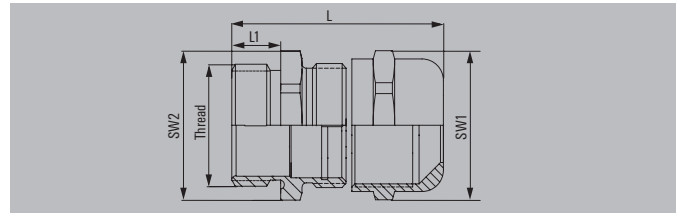
Note Long-thread version on request
VDE for metric version

Standard cable glands - brass

Cable glands - brass - IP68



Cable gland with spherical seal insert that squeezes the cable gently over a large area. This permanently avoids the incisive notch effect that is common with lamella systems.



Technical data

Material	Brass, nickel-plated
O-Ring / Seal insert	NBR / TPE
Temperature range	-40 °C ... 130 °C
Protection degree	IP68
Note	

Ordering data

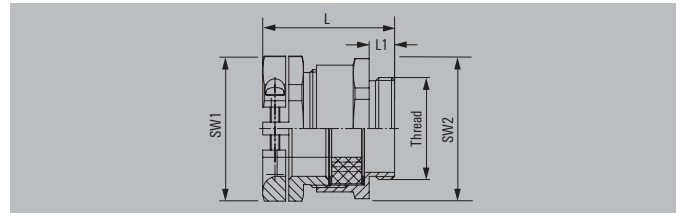
Type	Thread	KB	L/L1	SW	DR	Qty.	Order No.
VGM25-MS68 11-20 BG	M 25	11-20	36.5 / 7.5	30	15	50	1193600000
VGM32-MS68 15-25 BG	M 32	15-25	40 / 8	36	15	25	1193610000
VGM40-MS68 20-32 BG	M 40	20-32	43 / 8	45	20	10	1193620000
VGM40/1-MS68 20-32 BG	M 40	20-32	82 / 8	45	20	10	1205890000

Note When using mounting covers with 3 X M 40 cable input threads, the elongated version must be used for the cable gland in the middle.

Cable glands - Brass - ZE



Brass cable gland with external, centrally positioned strain relief through clamping jaws.
The seal insert used contains several removable or separable inlets.



Technical data

Material	Brass, nickel-plated
Seal insert	NBR
Temperature range	-20 °C...80 °C
Protection degree	IP54
Note	Optional sealing ring Length „L“ varies depending on the cable diameter used.

Ordering data

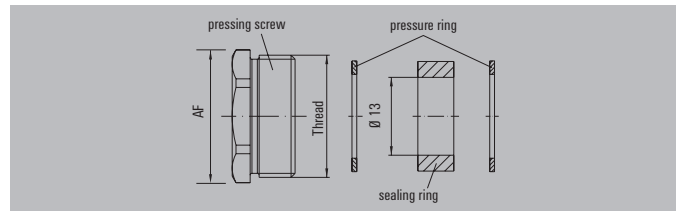
Type	Thread	KB	KB ZE	L/L1	SW1/SW2	TRQ CN min. / max.	TRQ BO min. / max.	Qty.	Order No.
metric									
VGM12-MS54 ZE 5,0-7,0	M 12	5.00-7.00	5.8-8	27 / 5	16 / 14	5.33 / 5.33	8.00 / 8.00	50	1778420000
VGM16-MS54 ZE	M 16	4.00-10.00	6.5-10	28 / 5	19 / 18	6.67 / 6.67	10.00 / 10.00	50	1778440000
VGM20-MS54 ZE	M 20	6.50-12.50	7.5-12	32 / 6	22 / 22	8.00 / 8.00	12.00 / 12.00	50	1778450000
VGM20-MS54 ZE 6,0-13,5	M 20	6.50-12.50	8.5-14	34 / 6	24 / 22	8.00 / 8.00	12.00 / 12.00	50	1778460000
VGM25-MS54 ZE	M 25	9.00-19.00	12-21	38 / 7	34 / 30	8.00 / 8.00	12.00 / 12.00	25	1778480000
VGM32-MS54 ZE	M 32	17.00-27.00	19-30	42 / 8	42 / 40	12.00 / 12.00	18.00 / 18.00	25	1778490000
VGM40-MS54 ZE	M 40	23.00-33.00	25-37	49 / 8	52 / 50	12.00 / 12.00	18.00 / 18.00	10	1778500000
VGM50-MS54 ZE	M 50	29.00-39.00	31-43	52 / 9	62 / 57	13.33 / 13.33	20.00 / 20.00	5	1778520000
VGM63-MS54 ZE	M 63	35.00-45.00	35-48	54 / 10	68 / 66	13.33 / 13.33	20.00 / 20.00	5	1778530000
PG									
VG 7-MS54-ZE	PG 7	5.00-7.00	5.8-8	27 / 5	16 / 14	4.20 / 4.20	6.25 / 6.25	50	1718800000
VG 9-MS54-ZE	PG 9	4.00-10.00	6.5-10	30.5 / 6	19 / 17	4.20 / 4.20	6.25 / 6.25	50	1718810000
VG 11-MS54-ZE	PG 11	6.50-12.50	7.5-12	31.5 / 6	22 / 20	4.20 / 4.20	6.25 / 6.25	50	1718820000
VG 13,5-MS54-ZE	PG 13.5	6.50-12.50	8.5-14	32 / 6.5	24 / 22	4.20 / 4.20	6.25 / 6.25	50	1718830000
VG 16-MS54-ZE	PG 16	6.50-15.00	9.5-17	33 / 6.5	27 / 24	5.00 / 5.00	7.50 / 7.50	50	1718840000
VG 21-MS54-ZE	PG 21	9.00-19.00	12-21	38 / 7	34 / 30	6.70 / 6.70	10.00 / 10.00	50	1718850000
VG 29-MS54-ZE	PG 29	17.00-27.00	19-30	43 / 8	42 / 40	6.70 / 6.70	10.00 / 10.00	25	1718860000
VG 36-MS54-ZE	PG 36	23.00-33.00	25-37	49.5 / 9	50 / 50	6.70 / 6.70	10.00 / 10.00	10	1718870000
VG 42-MS54-ZE	PG 42	29.00-39.00	31-43	53.5 / 10	57 / 57	6.70 / 6.70	10.00 / 10.00	5	1718880000
VG 48-MS54-ZE	PG 48	35.00-45.00	35-48	55 / 10	68 / 64	6.70 / 6.70	10.00 / 10.00	5	1718890000
Note	Further versions on request								

Standard cable glands - Brass

Clamping screws - Brass - IP65



The special cable glands (clamping screws) are designed for use in HDC RockStar® base housings. The seal insert used contains several removable or separable inlets.



Technical data

Clamping screw material	Brass, nickel-plated
Sealing ring material	SBR/NBR
Pressure ring material	Polyamide
Temperature range	-20 °C...60 °C
Protection degree	IP65
Note	

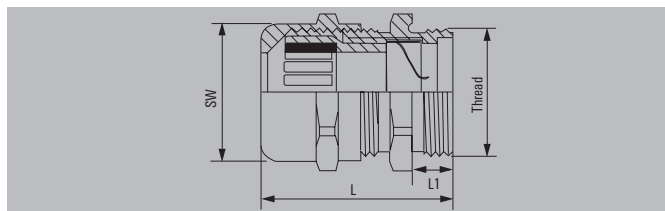
Ordering data

Type	Thread	Inserts in mm	SW	Qty.	Order No.
metric					
VG H M20 MS	M 20	4 / 7 / 10 / 13	20	50	1921720000
VG H M25 MS	M 25	8.5 / 11.5 / 14.5 / 18	25	25	1921740000
VG H M32 MS	M 32	16 / 19 / 22 / 25	32	20	1921760000
VG H M40 MS	M 40	23 / 26 / 29 / 32	40	10	1921770000
PG					
KV 11-M	PG 11	7.5 / 10 / 12.5	10	10	1656390000
KV 13-M	PG 13	7.5 / 10 / 12.5	10	10	1656400000
KV 16-M	PG 16	7.5 / 10 / 12.5 / 15	10	10	1656410000
KV 21-M	PG 21	10 / 13 / 16 / 19	10	10	1656420000
KV 29-M	PG 29	18 / 21 / 24 / 27	10	10	1656430000
Note					

Cable glands - Brass - 1/EMC



Brass cable gland for shielding against interference frequencies with a shielding effectiveness of up to 90 dB. A conical metal cage ensures multiple contacts with the cable shielding. For installation, the cable gland does not have to be broken down into its individual parts - thus allowing a particularly simple installation.



Technical data

Material	Brass, nickel-plated
O-ring / Seal insert	NBR / CR
Temperature range	-40 °C...100 °C
Protection degree	IP68 - 5 bar (30 min.), IP69K
Clamp insert	Polyamide
Note	Length „L“ varies according to cable diameter used

Ordering data

Type	Qty.	Order No.
metric		
VG M12 - MS 1/EMV	50	1909490000
VG M16 - MS 1/EMV	50	1909500000
VG M20 - MS 1/EMV	50	1909510000
VG M25 - MS 1/EMV	25	1909520000
VG M32 - MS 1/EMV	10	1909530000
VG M40 - MS 1/EMV	10	1909540000
VG M50 - MS 1/EMV	5	1909550000
VG M63 - MS 1/EMV	5	1909560000

Note Further versions on request

EMC cable glands

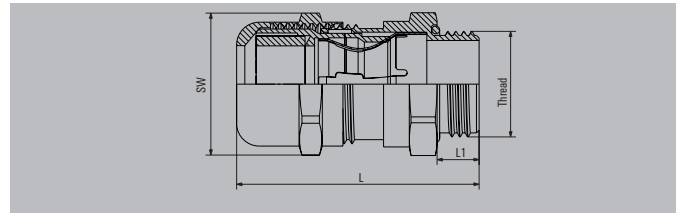
Cable glands - brass - EMV-4



EMC cap nut screw connection with the new and patented contact system for particularly time-saving installation of shielded cables.

The benefits for you:

- very low installation expenditure
- vibration tested
- patented, active contact system



Technical data

Material	Brass, nickel-plated
O-Ring / Seal insert	NBR / CR
Temperature range	-20 °C...100 °C
Protection degree	IP66, IP68 - 5 bar (30 min.), IP69K
Clamp insert	Polyamide
Note	

Ordering data

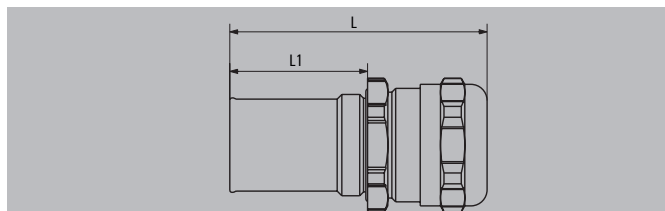
Type	Thread	KB	Shield Ø	L/L1	SW	DR	Qty.	Order No.
VG M12 EMV-4 MS 3-6.5	M 12	3.00-6.50	2.00-5.00	34 / 6	14	3	50	2435070000
VG M16 EMV-4 MS 5-10	M 16	5.00-10.00	3.50-8.00	39 / 6	20	4	50	2435140000
VG M20 EMV-4 MS 6-12	M 20	6.00-12.00	4.50-10.00	38 / 6	22	5.5	50	2435150000
VG M20 EMV-4 MS 8-14	M 20	7.50-14.00	5.50-11.50	48 / 8	24	5.5	50	2435160000
VG M25 EMV-4 MS 10-18	M 25	10.00-18.00	7.00-14.00	51 / 8	30	6	25	2435170000
VG M32 EMV-4 MS 16-25	M 32	16.00-25.00	12.00-20.00	62 / 9	40	6	10	2435180000
VG M40 EMV-4 MS 22-32	M 40	22.00-32.00	18.00-27.00	69.5 / 9	50	12	5	2435190000
VG M50 EMV-4 MS 30-38	M 50	30.00-38.00	26.00-34.00	62 / 9	58	18	5	2435200000
VG M63 EMV-4 MS 34-44	M 63	34.00-44.00	30.00-40.00	73 / 14	68	25	5	2435210000

Note

Cable glands - brass - EMC SET



Cable gland for internal shield connection or potential equalisation; easy-to-use, permanent, secure shield connection.



Technical data

Material	Brass, nickel-plated
O-Ring / Seal insert	NBR / TPE
Temperature range	-40 °C ... 130 °C
Protection degree	IP68

Note

Ordering data

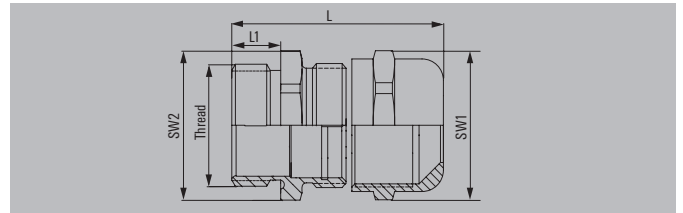
Type	Thread	KB	L/L1	SW	DR	Qty.	Order No.
VGM25-MS68 EMC 11-20SET	M 25	11-20	63.5 / 34	30	15	1	1463720000
VGM32-MS68 EMC 15-25SET	M 32	15-25	66.5 / 34	36	15	1	1463730000

Note

Cable glands - Stainless steel - IP68



Stainless steel cable glands for standard industrial applications that require a high degree of protection (IP68). These cable glands - with their resistance to impact and sea water - are also suitable for use in applications under extreme environmental conditions.



Technical data

Material	Stainless steel 1.4305 (303)
O-Ring / Seal insert	NBR / CR
Temperature range	-40 °C...100 °C
Protection degree	IP69K, IP68 - 5 bar (30 min.)
Note	

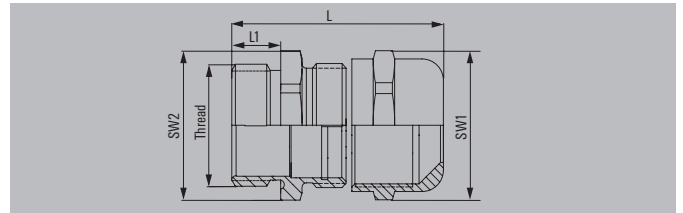
Ordering data

Type	Thread	KB	L/L1	SW1/SW2	DR	Qty.	Order No.
metric							
VGM12-SS 68 KB 3-6.5	M 12	3.00-6.50	28 / 6	14 / 14	5.5	50	1009840000
VGM16-SS 68 KB 4-8	M 16	4.00-8.00	30 / 7	17 / 19	5.5	50	1009850000
VGM20-SS 68 KB 6-12	M 20	6.00-12.00	32 / 8	22 / 22	8	50	1009860000
VGM25-SS 68 KB 10-14	M 25	10.00-14.00	35.5 / 8	24 / 27	11	25	1009870000
VGM32-SS 68 KB 13-18	M 32	13.00-18.00	41.5 / 9	30 / 36	17	20	1009880000
VGM40-SS 68 KB 18-25	M 40	18.00-25.00	49.6 / 9	41 / 46	22	20	1009890000
VGM50-SS 68 KB 22-32	M 50	22.00-32.00	55 / 9	50 / 55	40	12	1009900000
VGM63-SS 68 KB 34-44	M 63	34.00-44.00	67 / 14	65 / 70	50	10	1009910000
PG							
VG 7-SS 68 KB 3-6.5	PG 7	3.00-6.50	28 / 6	14 / 14	3	50	1009740000
VG 9-SS 68 KB 4-8	PG 9	4.00-8.00	29 / 6	17 / 17	4	50	1009750000
VG 11-SS 68 KB 5-10	PG 11	5.00-10.00	31.5 / 6	22 / 22	5	50	1009760000
VG 16-SS 68 KB 10-14	PG 16	10.00-14.00	34 / 6.5	24 / 24	7	25	1009780000
VG 21-SS 68 KB 13-18	PG 21	13.00-18.00	39.7 / 7.2	30 / 30	10	25	1009790000
VG 29-SS 68 KB 18-25	PG 29	18.00-25.00	46.5 / 8	41 / 41	15	20	1009800000
VG 36-SS 68 KB 22-32	PG 36	22.00-32.00	55 / 9	50 / 50	20	15	1009810000
Note		1.4404 (316L) on request					

Cable gland - stainless steel - IP68



Cable gland with spherical seal insert that squeezes the cable gently over a large area. This permanently avoids the incisive notch effect that is common with lamella systems.



Technical data

Material	Stainless steel 1.4305 (303)
O-Ring / Seal insert	Silicone / TPE
Temperature range	-40 °C ... 130 °C
Protection degree	IP68
Note	

Ordering data

Type	Thread	KB	L/L1	SW	DR	Qty.	Order No.
VGM25-SS68 11-20 BG	M 25	11-20	36.5 / 7.5	30	15	50	1193570000
VGM32-SS68 15-25 BG	M 32	15-25	40 / 8	36	15	25	1193580000
VGM40-SS68 20-32 BG	M 40	20-32	43 / 8	45	20	10	1193590000
VGM40/1-SS68 20-32 BG	M 40	20-32	82 / 8	45	20	10	1205920000

Note When using mounting covers with 3 X M 40 cable input threads, the elongated version must be used for the cable gland in the middle.

Standard cable glands

HQ cable glands



Cable gland especially for the HQ series, available in plastic, brass and as brass EMC version

Technical data

Material	Polyamide 6
Seal insert	TPE
Temperature range	-40 °C ... 130 °C
Protection degree	IP68
Note	

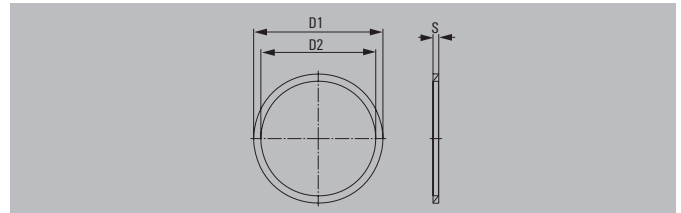
Ordering data

Type	Thread	KB	SW	DR	Qty.	Order No.
Plastic						
VG 16 HQ K68 9-13	PG 16	9-13	27	6	1	1016070000
VG 16 HQ K68 11.5-15.5	PG 16	11.5-15.5	27	6	1	1016080000
brass						
VG 21 HQ MS68 9-13	PG 21	9-13	30	15	1	1016090000
VG 21 HQ MS68 11.5-15.5	PG 21	11.5-15.5	30	15	1	1016100000
VG 21 HQ MS68 14-18	PG 21	14-18	30	15	1	1016110000
EMC						
VG 21 HQ EMV68 11-15.5	PG 21	11-15.5	30	15	1	1016120000
VG 21 HQ EMV68 14-18	PG 21	14-18	30	15	1	1016130000
only for angled HQ base housing (order number 1003110000)						
VG16 HQ K68 9-12SH	PG 16	9-12	30	6	50	1045530000
VG16 HQ K68 11.5-15.5SH	PG 16	11.5-15.5	30	6	50	1045540000
Note						

Flat IP washer - Standard - Polyethylene



Flat IP washer for increasing the degree of protection for cable glands and sealing plugs. The IP washer is also suitable as a replacement for O-rings.



Technical data

Material / Colour	Polyethylene / Transparent
Temperature range	-30 °C...90 °C
Note	

Ordering data

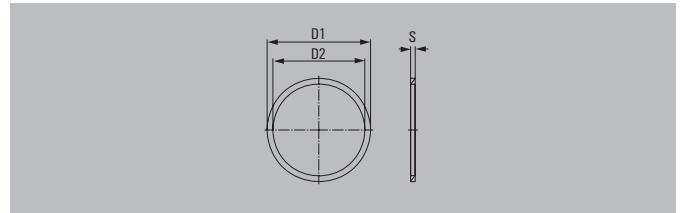
Type	Thread	D1	D2	S	Qty.	Order No.
metric						
GWDR M12-PO	M 12	16.00	12.00	2.00	50	1777920000
GWDR M16-PO	M 16	20.00	16.00	2.00	50	1777930000
GWDR M20-PO	M 20	24.00	20.00	2.00	100	1777940000
GWDR M25-PO	M 25	29.00	25.00	2.00	50	1777950000
GWDR M32-PO	M 32	36.00	32.00	2.00	50	1777960000
GWDR M40-PO	M 40	45.00	40.00	2.00	50	1777970000
GWDR M50-PO	M 50	56.00	50.00	2.00	50	1777980000
GWDR M63-PO	M 63	70.00	63.00	2.00	50	1777990000
PG						
GWDR PG7-PO	PG 7	16.50	12.50	2.00	100	1719440000
GWDR PG9-PO	PG 9	19.00	15.20	2.00	100	1719450000
GWDR PG11-PO	PG 11	22.50	18.60	2.00	100	1719460000
GWDR PG13,5-PO	PG 13.5	25.00	20.40	2.00	100	1719470000
GWDR PG16-PO	PG 16	27.00	22.50	2.00	100	1719480000
GWDR PG21-PO	PG 21	33.50	28.30	3.00	100	1719490000
GWDR PG29-PO	PG 29	43.50	37.00	3.00	50	1719500000
GWDR PG36-PO	PG 36	55.00	47.00	3.00	50	1719510000
GWDR PG42-PO	PG 42	63.00	54.00	3.00	10	1719520000
GWDR PG48-PO	PG 48	69.00	59.30	3.00	5	1719530000

Note Further versions on request

Flat IP washer - Standard - Neoprene



Flat gasket seal to increase the degree of protection for cable glands and sealing plugs - recommended for use in Ex applications. The seal is also suitable as a replacement for O-rings.



Technical data

Material / Colour	Neoprene / deep black / RAL 9005
Temperature range	-30 °C...100 °C
Note	

Ordering data

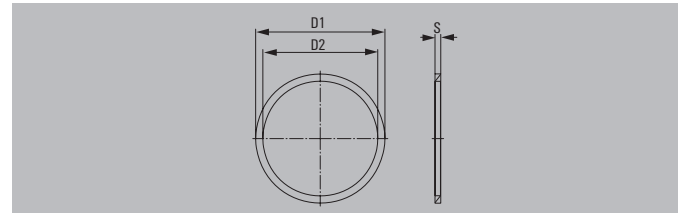
Type	Thread	D1	D2	S	Qty.	Order No.
metric						
GWDR M12-NP	M 12	18.00	12.00	1.20	50	1913320000
GWDR M16-NP	M 16	22.00	16.00	1.20	50	1736230000
GWDR M20-NP	M 20	24.00	20.00	1.20	50	1736240000
GWDR M25-NP	M 25	30.00	25.00	1.50	100	1736250000
GWDR M32-NP	M 32	42.00	32.00	1.50	50	1736260000
GWDR M40-NP	M 40	52.00	40.00	1.50	20	1736270000
GWDR M50-NP	M 50	63.00	50.00	1.50	20	1736280000
GWDR M63-NP	M 63	77.00	63.00	2.00	10	1736290000
PG						
GWDR PG7-NP	PG 7	17.00	11.60	1.20	100	1719540000
GWDR PG9-NP	PG 9	21.00	14.00	1.20	100	1719550000
GWDR PG11-NP	PG 11	24.00	17.00	1.20	100	1719560000
GWDR PG13,5-NP	PG 13.5	27.00	19.50	1.20	100	1719570000
GWDR PG16-NP	PG 16	30.00	22.50	1.20	100	1719580000
GWDR PG21-NP	PG 21	35.00	28.30	1.50	100	1719590000
GWDR PG29-NP	PG 29	45.00	37.00	1.50	50	1719600000
GWDR PG36-NP	PG 36	60.00	47.00	1.50	20	1719610000
GWDR PG42-NP	PG 42	65.00	54.00	1.50	10	1719620000
GWDR PG48-NP	PG 48	71.00	59.30	1.50	5	1719630000

Note	Further versions on request
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Flat IP washer - Standard - Nylon



Flat nylon IP washer, used for sealing large surfaces, for example around cable glands on enclosures.



Technical data

Material / Colour	Nylon 6 / traffic red / RAL 3020
Temperature range	-40 °C...135 °C

Note

Ordering data

Type	Thread	D1	D2	S	Qty.	Order No.
metric						
KSWN M16	M 16	25.00	16.50	2.00	25	1076630000
KSWN M20	M 20	29.40	20.70	2.00	25	0930730002
KSWN M25	M 25	38.10	25.70	2.00	25	1076640000
KSWN M32	M 32	42.50	32.50	2.00	25	1076650000
KSWN M40	M 40	52.00	40.50	2.00	25	0899780000
KSWN M50	M 50	65.00	50.50	2.00	25	0900660000
KSWN M63	M 63	79.40	63.50	2.00	25	1076660000
KSWN M75	M 75	90.50	75.50	2.00	25	1076670000

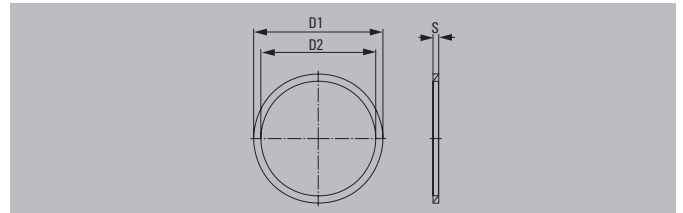
Note

Accessories - Flat IP washer

Flat IP washer - Standard - Vulcanised fibre



Flat nylon IP washer made from vulcanised fibre, used for sealing large surfaces, for example around cable glands on enclosures.



Technical data

Material / Colour	Vulcanized fibre / brown-red / RAL 3011
Temperature range	-40 °C...95 °C
Note	

Ordering data

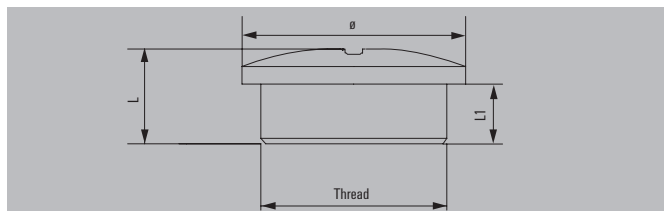
Type	Thread	D1	D2	S	Qty.	Order No.
metric						
KSWF M16	M 16	25.00	16.50	1.50	25	1076680000
KSWF M20	M 20	29.40	20.70	1.50	25	0899750000
KSWF M25	M 25	38.10	25.70	1.50	25	0899770000
KSWF M32	M 32	42.50	32.50	1.50	25	1076690000
KSWF M40	M 40	52.00	40.50	1.50	25	1076710000
KSWF M50	M 50	65.00	50.50	1.50	25	1076720000
KSWF M63	M 63	79.40	63.50	1.50	25	1076730000
KSWF M75	M 75	90.50	75.50	1.50	25	1076740000

Note	
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Sealing plugs - Plastic



Plastic sealing plug with cross-head is used to seal surplus threaded holes and to maintain the IP protection degree.



Technical data

Material / Colour	Polyamid 6 (PA6 - GF30) / Light Grey / RAL 7035
Temperature range	-40 °C...100 °C
Protection degree	IP54
Flammability rating	V-2
Note	Optional sealing ring

Ordering data

Type	Thread	L	L1	Head Ø	Qty.	Order No.
metric						
VP M12 K54	M 12	5.5	6	15.00	100	1776930000
VP M16 K54	M 16	5.5	7	20.00	100	1776920000
VP M20 K54	M 20	6.5	7	24.00	100	1776910000
VP M25 K54	M 25	7	10	30.00	100	1776900000
VP M32 K54	M 32	7	11	37.00	50	1776940000
VP M40 K54	M 40	7	13	46.00	25	1776950000
VP M50 K54	M 50	8.5	14	56.00	10	1776960000
VP M63 K54	M 63	8.5	15	69.50	50	1776970000
PG						
VP 7-K54	PG 7	8	6	15.00	100	1719250000
VP 9-K54	PG 9	9.5	5	19.00	100	0294760000
VP 11-K54	PG 11	10	6.5	22.00	100	0294860000
VP 13,5-K54	PG 13.5	10	5	25.00	100	0294960000
VP 16-K54	PG 16	10	5	27.00	100	0295060000
VP 21-K54	PG 21	12	8	33.00	50	0295160000
VP 29-K54	PG 29	11.5	8	44.00	25	0501160000
VP 36-K54	PG 36	14	10	55.00	10	0501260000
VP 42-K54	PG 42	14	10	62.00	5	0501360000
VP 48-K54	PG 48	16	12	69.00	5	1719260000

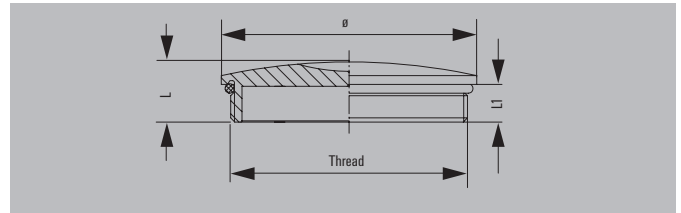
Note	Other versions available on request. The sealing plugs must be tightened „hand-tight“ with the screwdriver.
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Sealing plugs

Sealing plugs - Brass - Nickel-plated



Brass sealing plug with cross-head is used to seal surplus threaded holes and to maintain the IP protection degree.



Technical data

Material	Brass, nickel-plated
O-Ring	NBR
Temperature range	-40 °C...100 °C
Protection degree	IP68

Note

Ordering data

Type metric	Thread	L	L1	Head Ø	Qty.	Order No.
VP M12-MS65	M 12	7.5	5	14.00	100	1777720000
VP M16-MS65	M 16	8	5	18.00	100	1777730000
VP M20-MS65	M 20	9.5	6	22.00	100	1777740000
VP M25-MS65	M 25	11	7	28.00	100	1777750000
VP M32-MS65	M 32	12	8	35.00	50	1777760000
VP M40-MS65	M 40	13	8	44.00	50	1777770000
VP M50-MS65	M 50	15	9	54.00	25	1777780000
VP M63-MS65	M 63	16	10	67.00	10	1777790000
PG						
VP 7-MS65	PG 7	7.5	5	15.00	100	0521600000
VP 9-MS65	PG 9	8	5	18.00	100	0294700000
VP 11-MS65	PG 11	8	5	22.00	100	0294800000
VP 13,5-MS65	PG 13,5	9	6	24.00	100	0294900000
VP 16-MS65	PG 16	9	6	26.00	100	0295000000
VP 21-MS65	PG 21	10	6	32.00	50	0295100000
VP 29-MS65	PG 29	12	8	40.00	50	0501100000
VP 36-MS65	PG 36	15	9	50.00	25	0501200000
VP 42-MS65	PG 42	16	10	57.00	25	0501300000
VP 48-MS65	PG 48	16	10	64.00	10	1719270000

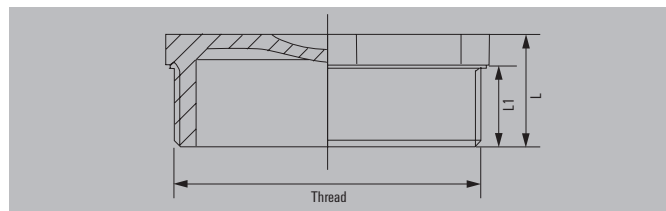
Note

Other versions available on request. The sealing plugs must be tightened „hand-tight“ with the screwdriver.

Sealing plugs - Plastic - Ex e



Sealing plug with cross-head is used to seal surplus threaded holes and to maintain the IP protection degree – especially for Ex-e Ex applications.



Technical data

Material / Colour	Polyamide / deep black / RAL 9005
Temperature range	-20 °C...80 °C
Protection degree	IP66
Protection degree with GWDR	IP68
UL 94 flammability rating	V-2
Marking	Ex e II, Ex tD
Note	Optional sealing ring

Ordering data

Type	Thread	L	L1	SW	Qty.	Order No.
metric						
VP M16-EXE SW	M 16	19	15	19	100	1737070000
VP M20-EXE SW	M 20	19	15	23	100	1737080000
VP M25-EXE SW	M 25	20	15	28	100	1737090000
VP M32-EXE SW	M 32	20.5	15	36	100	1737100000
VP M40-EXE SW	M 40	20.5	15	44	10	1737110000
VP M50-EXE SW	M 50	21	15	54	5	1737120000
VP M63-EXE SW	M 63	23.5	15	67	5	1737130000

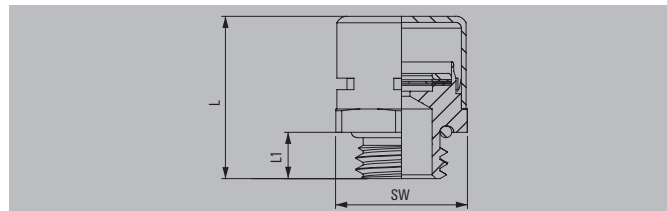
Note Refer to the enclosed installation instructions for the tightening torque.

Compensating elements

Compensation elements - Stainless steel - DAE



The DAE pressure-compensation element provides good ventilation for the enclosure and prevents moisture build-up. At the same time it maintains the high IP69k protection level. The membrane repels water and oil.



Technical data

Material	Stainless steel 1.4305 (303)
O-Ring	NBR
Temperature range	-40 °C...105 °C
Protection degree	IP66, IP68, IP69K
Air flow	0.4 l/min at 0.1 bar ΔP, up to 5.0 l/min at 1bar ΔP
Wasser inlet point	> 1.5 bar
Note	

Ordering data

Type	Thread	L	L1	SW	Qty.	Order No.
metric						
DAEM12 SS	M 12	21.1	10	17	10	1868550000
Note						

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Service and support	Our expertise for your requirements	V.2
	Benefit from optimum support when using our new products	V.4
	Product selection, application and configuration	V.5

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HDC 10A SDLU 2M25G	1788650000	E.11
HDC 10A SDLU 2PG16G	1664420000	E.11
HDC 10A SLU 1M20G	1901100000	E.11
HDC 10A SLU 1M25G	1901160000	E.11
HDC 10A SLU 1PG16G	1664170000	E.11
HDC 10A SLU 1PG21G	1664210000	E.11
HDC 10A SLU 2M20G	1788640000	B.11

Type	Order No.	Page	Type	Order No.	Page	Type	Order No.	Page	Type	Order No.	Page
HDC 16B ADBO	120920000	E.23	HDC 24B TOBU 1PG29G	1661380000	E.26	HDC 32A TOBU 1PG29G	1665810000	E.24	HDC 48A ALU	1666740000	E.32
HDC 16B ADLU	121010000	E.22	HDC 24B TOLL 1M25G	1787860000	E.28	HDC 32A TSBO 1M25G	1787980000	E.25	HDC 48A SDLU 1PG29G	1666810000	E.32
HDC 16B ADU	120970000	E.22	HDC 24B TOLL 1M32G	1787850000	E.28	HDC 32A TSBO 1M32G	1787970000	E.25	HDC 48A SLU 1PG29G	1666770000	E.32
HDC 16B DC	121592000	L.24	HDC 24B TOLL 1PG21G	1662540000	E.28	HDC 32A TSBO 1PG29G	1666270000	E.25	HDC 48A SLM 2M32G	1788570000	B.17
HDC 16B DMDQ 20B	1665270000	E.20	HDC 24B TOLL 1PG29G	1662550000	E.28	HDC 32A TSBU 1M25G	1787960000	B.15	HDC 48A SLS 2M32G	1788570000	E.32
HDC 16B DMDQ 480	1665620000	E.23	HDC 24B TSBO 1M25G	1787780000	E.30	HDC 32A TSBU 1M25G	1787960000	B.59	HDC 48A TOLL 1M32G	1788560000	B.17
HDC 16B DODQ 20B	1009090000	E.23	HDC 24B TSBO 1M32G	1787770000	E.30	HDC 32A TSBU 1M25G	1787960000	E.24	HDC 48A TOLL 1M32G	1788560000	E.32
HDC 16B DODQ 480	1665260000	E.21	HDC 24B TSBO 1PG21G	1661860000	E.30	HDC 32A TSBU 1M32G	1787950000	B.15	HDC 48A TOLL 1PG29G	1666730000	E.32
HDC 16B KBU 1PG21G	1657270000	E.21	HDC 24B TSBO 1PG29G	1661880000	E.30	HDC 32A TSBU 1M32G	1787950000	B.59	HDC 48A TOLL 1M32G	1788560000	B.17
HDC 16B KLU 1M25G	1788290000	E.22	HDC 24B TSBU 1M25G	1787760000	E.26	HDC 32A TSBU 1M32G	1787950000	E.24	HDC 48A TOLL 1M32G	1788560000	E.32
HDC 16B SBU 1M25G	1899980000	E.21	HDC 24B TSBU 1M32G	1787750000	H.22	HDC 32A TSBU 1PG21G	1665670000	E.24	HDC 48A TOLL 1PG29G	1666710000	E.32
HDC 16B SBU 1PG21G	1656720000	E.21	HDC 24B TSBU 1M40G	1902480000	E.28	HDC 32A TSBU 1PG29G	1665690000	E.24	HDC 48B ADLU	1222900000	H.27
HDC 16B SBU 2M25G	1788240000	E.21	HDC 24B TSBU 1PG21G	1661230000	H.23	HDC 32B ABU	1217800000	H.25	HDC 48B ALU	1295600000	E.36
HDC 16B SBU 2PG21G	1656730000	E.21	HDC 24B TSBU 1PG29G	1661240000	E.26	HDC 32B ADBO	1218800000	E.35	HDC 48B SDLU 1M32G	1904150000	E.36
HDC 16B SDBO 1M25G	1900800000	E.23	HDC 24B TSLU 1M25G	1787800000	E.28	HDC 32B ADLU	1219800000	E.34	HDC 48B SDLU 1PG29G	1799810000	E.36
HDC 16B SDBO 2M25G	1788260000	E.23	HDC 24B TSLU 1M32G	1787790000	E.28	HDC 32B ADU	1219500000	E.34	HDC 48B SDLU 2M32G	1788390000	B.31
HDC 16B SDBO 2PG21G	1657640000	E.23	HDC 24B TSLU 1PG21G	1662390000	E.28	HDC 32B DODO 480	1165790000	E.33	HDC 48B SDLU 2M32G	1788390000	B.85
HDC 16B SDLU 1PG21G	1658330000	E.22	HDC 24B TSLU 1PG29G	1662410000	E.28	HDC 32B KBU 1M40G	1902730000	E.33	HDC 48B SDLU 2M32G	1788390000	B.79
HDC 16B SDLU 2M25G	1788270000	E.22	HDC 24D KLU 1M25G	1787460000	E.16	HDC 32B KBU 1PG29G	1902740000	E.33	HDC 48B SDLU 2M32G	1788390000	E.36
HDC 16B SDLU 2PG21G	1658330000	E.22	HDC 24D KLU 1M32G	1787450000	E.16	HDC 32B KBU 1PG36G	1902750000	E.33	HDC 48B SDLU 2M40G	1983500000	E.36
HDC 16B SLU 1M25G	1900170000	E.22	HDC 24D SBU 1M25G	1903210000	E.15	HDC 32B KLU 1M32G	1788500000	B.29	HDC 48B SDLU 2M50G	1983510000	E.36
HDC 16B SLU 1PG21G	1658110000	E.22	HDC 24D SBU 1M32G	1903220000	E.15	HDC 32B KLU 1M32G	1788500000	B.45	HDC 48B SDLU 2PG29G	1667560000	E.36
HDC 16B SLU 2M25G	1788250000	E.22	HDC 24D SBU 1PG29G	1654470000	E.15	HDC 32B KLU 1M32G	1788500000	B.63	HDC 48B SLU 1M32G	1904190000	E.36
HDC 16B SLU 2PG21G	1658120000	E.22	HDC 24D SBU 2M25G	1787350000	E.15	HDC 32B KLU 1M32G	1788500000	B.77	HDC 48B SLU 1PG29G	1651100000	E.36
HDC 16B TOBO 1M25G	1788220000	E.23	HDC 24D SBU 2M32G	1787360000	E.15	HDC 32B KLU 1M32G	1788500000	B.93	HDC 48B SLU 2M32G	1788370000	B.31
HDC 16B TOBO 1PG21G	1657490000	E.23	HDC 24D SBU 2PG21G	1684450000	E.15	HDC 32B KLU 1M32G	1788500000	E.34	HDC 48B SLU 2M32G	1788370000	B.85
HDC 16B TOBU 1M25G	1788210000	H.18	HDC 24D SDBO 1M25G	1903370000	E.17	HDC 32B SBU 1M32G	1902600000	E.33	HDC 48B SLU 2M32G	1788370000	B.79
HDC 16B TOBU 1PG21G	1656590000	H.19	HDC 24D SDBO 2M25G	1787400000	E.17	HDC 32B SBU 1M32G	1902610000	E.33	HDC 48B SLU 2M32G	1788370000	E.36
HDC 16B TOLL 1M25G	1788230000	E.22	HDC 24D SDLU 1M25G	1903410000	E.16	HDC 32B SBU 2M32G	1788460000	E.33	HDC 48B SLU 2M40G	1788360000	B.31
HDC 16B TOLL 1M32G	1804630000	E.22	HDC 24D SDLU 1M32G	1903510000	E.16	HDC 32B SBU 2PG29G	1666920000	E.33	HDC 48B SLU 2M40G	1788360000	B.85
HDC 16B TOLL 1PG21G	1657960000	E.22	HDC 24D SDLU 2M25G	1787420000	E.16	HDC 32B SBU 2PG36G	1902640000	E.33	HDC 48B SLU 2M40G	1788360000	B.79
HDC 16B TSBO 1M25G	1788190000	E.23	HDC 24D SDLU 2M32G	1787410000	E.16	HDC 32B SDLU 1M32G	1902650000	E.34	HDC 48B SLU 2M40G	1788360000	E.36
HDC 16B TSBO 1PG21G	1657380000	E.23	HDC 24D SLU 1M32G	1903560000	E.16	HDC 32B SDLU 2M32G	1788490000	B.29	HDC 48B TOLL 1M32G	1788350000	B.31
HDC 16B TSBU 1M25G	1788180000	H.18	HDC 24D SLDU 2M32G	1787370000	E.16	HDC 32B SLDU 2M32G	1788490000	B.45	HDC 48B TOLL 1M32G	1788350000	B.85
HDC 16B TSBU 1M40G	1809620000	E.20	HDC 24D SZO 2PG21G	1968350000	E.18	HDC 32B SLDU 2M32G	1788490000	B.63	HDC 48B TOLL 1M32G	1788350000	B.79
HDC 16B TSBU 1PG21G	1656480000	H.28	HDC 24D TOBO 1PG29G	1654920000	E.17	HDC 32B SLDU 2M32G	1788490000	B.77	HDC 48B TOLL 1M40G	1788350000	E.36
HDC 16B TSLU 1M25G	1788200000	E.22	HDC 24D TOBU 1M25G	1787300000	E.14	HDC 32B SLDU 2M32G	1788490000	B.93	HDC 48B TOLL 1M50G	1788340000	E.36
HDC 16B TSLU 1M32G	1804640000	E.22	HDC 24D TOBU 1M32G	1787290000	E.14	HDC 32B SLU 1M32G	1788490000	E.34	HDC 48B TOLL 1M50G	1788330000	B.31
HDC 16B TSLU 1PG21G	1657850000	E.22	HDC 24D TOBU 1PG29G	1654320000	E.14	HDC 32B SLU 1M32G	1902670000	E.34	HDC 48B TOLL 1M50G	1788330000	B.85
HDC 16D KLU 1PG21G	1653230000	E.13	HDC 24D TOLL 1M25G	1787340000	E.16	HDC 32B SLU 2M32G	1788470000	B.29	HDC 48B TOLL 1M50G	1788330000	B.79
HDC 16D SDLU 1M25G	1900820000	E.13	HDC 24D TOLL 1M32G	1787330000	E.16	HDC 32B SLU 2M32G	1788470000	B.45	HDC 48B TOLL 1M50G	1788330000	E.36
HDC 16D SDLU 2M25G	1787540000	E.13	HDC 24D TOLL 1PG21G	1655360000	E.16	HDC 32B SLU 2M32G	1788470000	B.63	HDC 48B TOLL 1PG29G	1650980000	E.36
HDC 16D SDLU 1M25G	1900880000	E.13	HDC 24D TOLL 1PG29G	1655380000	E.16	HDC 32B SLU 2M32G	1788470000	B.77	HDC 48B TOLL 1PG36G	1651000000	E.36
HDC 16D SLU 1M32G	1900900000	E.13	HDC 24D TSBO 1M25G	1787260000	E.17	HDC 32B SLU 2M32G	1788470000	B.93	HDC 48B TSLU 1M32G	1788320000	B.31
HDC 16D SLU 2M25G	1787520000	E.13	HDC 24D TSBO 1M32G	1787250000	E.17	HDC 32B SLM 1M32G	1788470000	E.34	HDC 48B TSLU 1M32G	1788320000	B.85
HDC 16D SLU 2M32G	1787510000	E.13	HDC 24D TSBO 1PG16G	1654810000	E.17	HDC 32B SLM 2M32G	1788470000	E.33	HDC 48B TSLU 1M32G	1788320000	B.79
HDC 16D SLU 2PG21G	1652940000	E.13	HDC 24D TSBO 1PG21G	1654790000	E.17	HDC 32B TOBU 1M32G	1666870000	E.33	HDC 48B TSLU 1M32G	1788320000	E.36
HDC 16D TOLL 1M25G	1787500000	E.12	HDC 24D TSBU 1M25G	1787240000	E.14	HDC 32B TOBU 1PG29G	1666870000	E.33	HDC 48B TSLU 1M40G	1788310000	H.26
HDC 16D TOLL 1M32G	1787490000	E.12	HDC 24D TSBU 1M32G	1787230000	E.14	HDC 32B TOLL 1M32G	1219300000	E.34	HDC 48B TSLU 1M50G	1788300000	B.31
HDC 16D TOLL 1PG21G	1652680000	E.12	HDC 24D TSBU 1PG21G	1654150000	E.14	HDC 32B TSBO 1M32G	1788410000	E.35	HDC 48B TSLU 1M50G	1788300000	B.85
HDC 16D TOLL 1PG29G	1652700000	E.12	HDC 24D TSBU 1PG29G	1654170000	E.14	HDC 32B TSBO 1M32G	1788400000	H.24	HDC 48B TSLU 1M50G	1788300000	B.79
HDC 16D TSLU 1M25G	1787480000	E.13	HDC 24D TSLU 1M25G	1787280000	E.16	HDC 32B TSBU 1PG29G	1666840000	H.25	HDC 48B TSLU 1M50G	1788300000	E.36
HDC 16D TSLU 1M32G	1787470000	E.12	HDC 24D TSLU 1M32G	1787270000	E.16	HDC 32B TSLU 1M32G	1788420000	B.29	HDC 48B TSLU 1PG29G	1650850000	E.36
HDC 16D TSLU 1PG21G	1652560000	E.12	HDC 24D TSLU 1PG21G	1655250000	E.16	HDC 32B TSLU 2M32G	1788420000	B.45	HDC 48B TSLU 1PG29G	1650850000	H.27
HDC 16D TSLU 1PG29G	1652580000	E.12	HDC 24D TSLU 1PG29G	1655270000	E.16	HDC 32B TSLU 2M32G	1788420000	B.63	HDC 48B TSLU 1PG36G	1650860000	E.36
HDC 24B ABO	1967910000	E.30	HDC 24D TSZO 1M25G	1903810000	E.18	HDC 32B TSLU 2M32G	1788420000	B.77	HDC 48B TSLU 1PG42G	1670470000	E.36
HDC 24B ABU	1212400000	H.23	HDC 24D TSZO 1PG21G	1968360000	E.18	HDC 32B TSLU 1M32G	1788420000	B.93	HDC 64D KBU 1M32G	1786960000	E.27
HDC 24B ADBO	1213300000	E.30	HDC 25A TOLL 1M20G	1788710000	B.13	HDC 32B TSLU 1M32G	1788420000	E.34	HDC 64D KBU 1PG29G	1661810000	E.27
HDC 24B ADLU	1214300000	E.29	HDC 25A TOLL 1M20G	1788710000	B.55	HDC 32B TSLU 1PG29G	1667120000	E.34	HDC 64D SBU 1M25G	1904340000	E.27
HDC 24B ALU	1213900000	E.29	HDC 25A TOLL 1M20G	1788710000	E.19	HDC 400 KBU 1M25G	1787200000	E.21	HDC 64D SBU 1M32G	1904350000	E.27
HDC 24B AZO	1611350000	E.31	HDC 25A TOLL 1M25G	1788700000	B.13	HDC 400 KBU 1M32G	1787190000	E.21	HDC 64D SBU 2M25G	1788890000	E.27
HDC 24B DC	1215930000	L.24	HDC 25A TOLL 1M25G	1788700000	B.55	HDC 400 KBU 1PG21G	1657310000	E.21	HDC 64D SBU 2M32G	1788880000	E.27
HDC 24B DMDQ 20B	1665640000	E.26	HDC 25A TOLL 1M25G	1788700000	E.19	HDC 400 KBU 1PG29G	1967670000	E.21	HDC 64D SBU 2PG21G	1661590000	E.27
HDC 24B DMDQ 480	1665650000	E.30	HDC 25A TOLL 1PG21G	1664870000	E.19	HDC 400 KLU 1M25G	1787220000	E.22	HDC 64D SBU 2PG29G	1661630000	E.27
HDC 24B DODQ 20B	1009100000	E.20	HDC 25A TSLU 1M20G	1788680000	B.13	HDC 400 SBU 1M25G	1902970000	E.21	HDC 64D SDBO 1M32G	1904400000	E.30
HDC 24B DODQ 480	1665630000	E.30	HDC 25A TSLU 1M20G	1788680000	B.55	HDC 400 SBU 1M32G	1902990000	E.21	HDC 64D SDBO 1PG29G	1662280000	E.30
HDC 24B HP250 MPL2 TYP1	1103690000	D.7	HDC 25A TSLU 1M20G	1788680000	E.19	HDC 400 SBU 1PG29G	1656830000	E.21	HDC 64D SDBO 2M32G	1786920000	E.30
HDC 24B HP250 MPL2 TYP2	1103740000	D.7	HDC 25A TSLU 1M25G	1788690000	B.13	HDC 400 SBU 2M25G	1787120000	E.21	HDC 64D SDLU 1M32G	1904430000	E.29
HDC 24B HP250 MPL3 TYP1	1079840000	D.7	HDC 25A TSLU 1M25G	1788690000	B.55	HDC 400 SBU 2M32G	1787110000	E.21	HDC 64D SDLU 1M25G	1904440000	E.29
HDC 24B HP250 MPL3 TYP2	1103750000	D.7	HDC 25A TSLU 1M25G	1788690000	E.19	HDC 400 SBU 2PG21G	1656810000	E.21	HDC 64D SDLU 2M25G	1786950000	E.29
HDC 24B HP250 MPL4 TYP1	1160430000	D.7	HDC 25A TSLU 1PG16G	1664730000	E.19	HDC 400 SBU 2PG29G	1656840000	E.21	HDC 64D SDLU 2M32G	1786940000	E.29
HDC 24B HP250 MPL4 TYP2	1160440000	D.7	HDC 25A TSLU 1PG21G	1664750000	E.19	HDC 400 SDLU 1M25G	1903070000	E.22	HDC 64D SDLU 2PG29G	1663040000	E.29
HDC 24B HP250 MPL4PE T1	1212890000	D.7	HDC 32A ABO	1665860000							

Type	Order No.	Page	Type	Order No.	Page	Type	Order No.	Page	Type	Order No.	Page
HDC 640 TSBU 1PG21G	1661300000	E.26	HDC HA 16 MT 33-48	1896850000	B.16	HDC HE 24 MT	1745850000	B.30	HDC HOP DOD 280	1003140000	B.107
HDC 640 TSBU 1PG29G	1661320000	E.26	HDC HA 3 FS	1498200000	H.5	HDC HE 24 MT 25-48	1745870000	B.30	HDC HOP DOD 280	1003140000	E.8
HDC 640 TSLU 1M32G	1786810000	E.28	HDC HA 3 MS	1498100000	H.5	HDC HE 6 FC	1201000000	B.20	HDC HOP DOD 280	1003140000	E.9
HDC 640 TSLU 1M40G	1804610000	E.28	HDC HA 4 FS	1498400000	H.7	HDC HE 6 FP	1873520000	H.11	HDC HOP DOD 280 CS	1251670000	E.8
HDC 640 TSLU 1M50G	1111150000	E.28	HDC HA 4 MS	1498300000	H.7	HDC HE 6 FS	1200200000	H.9	HDC HOP DOD 280 CS	1251670000	E.9
HDC 640 TSLU 1PG21G	1662470000	E.28	HDC HB 24 TEK AS M4	1827470000	F.9	HDC HE 6 FT	1457600000	B.20	HDC HOP KOLU 1PG16	1003120000	B.103
HDC 640 TSLU 1PG29G	1662490000	E.28	HDC HB 24 TEK TOS1xM50G	1827170000	F.9	HDC HE 6 MC	1200400000	B.20	HDC HOP KOLU 1PG16	1003120000	B.107
HDC 640 TSSU 1M40G	1904690000	E.31	HDC HB 24 TEK TSS1xM40G	1000920001	F.9	HDC HE 6 MP	1873530000	H.11	HDC HOP KOLU 1PG16	1003120000	E.8
HDC 640 TSSU 1PG21G	1663370000	E.31	HDC HB 24 TEK TSS1xM50G	1827160000	F.9	HDC HE 6 MS	1200000000	H.9	HDC HOP SLU 1PG16	1003110000	B.103
HDC 640 TSSU 1PG29G	1663390000	E.31	HDC HD 15 FC	1650660000	B.52	HDC HE 6 MT	1745820000	B.20	HDC HOP SLU 1PG16	1003110000	B.107
HDC ADAPTER W. SCREW	1017010000	L.21	HDC HD 15 MC	1650650000	B.52	HDC HE CP	1003240000	L.13	HDC HOP TOLU 1PG16	1003110000	E.8
HDC C HX BM1.5AG	1002950000	L.5	HDC HD 25 FC	1650820000	B.54	HDC HEE 10 FC	1826840000	B.34	HDC HOP TOLU 1PG16	1003070000	B.103
HDC C HX BM2.5AG	1002960000	L.5	HDC HD 25 MC	1650830000	B.54	HDC HEE 10 MC	1826830000	B.34	HDC HOP TOLU 1PG16	1003070000	B.107
HDC C HX BM4.OAG	1002970000	L.5	HDC HD 25 FC Z	1023050000	B.58	HDC HEE 18 FC	1826820000	B.36	HDC HOP TOLU 1PG16	1003070000	E.8
HDC C HX BM6.OAG	1002980000	L.5	HDC HD 25 MC	1650810000	B.54	HDC HEE 18 MC	1826810000	B.36	HDC HOP TSLU 1PG16	1003090000	B.103
HDC C HX SM1.5AG	1002991000	L.5	HDC HD 25 MC	1650810000	B.54	HDC HEE 32 FC	1826800000	B.38	HDC HOP TSLU 1PG16	1003090000	B.107
HDC C HX SM2.5AG	1002992000	L.5	HDC HD 25 MC Z	1023040000	B.58	HDC HEE 32 FC	1826800000	B.44	HDC HOP TSLU 1PG16	1003090000	E.8
HDC C HX SM4.OAG	1002993000	L.5	HDC HD 40 FC	1601730000	B.56	HDC HEE 32 FC 33-64	1018960000	B.44	HDC HSB 6 FS	1498900000	H.28
HDC C HX SM6.OAG	1002940000	L.5	HDC HD 40 FC	1601730000	B.62	HDC HEE 32 MC	1826790000	B.38	HDC HSB 6 FS 7 - 12	1499000000	B.92
HDC C MHX BM10.OAG	2494560000	C.10	HDC HD 40 MC	1601710000	B.56	HDC HEE 32 MC	1826790000	B.44	HDC HSB 6 MS	1498700000	H.28
HDC C MHX SM10.OAG	2494550000	C.10	HDC HD 40 MC	1601710000	B.62	HDC HEE 32 MC 33-64	1018950000	B.44	HDC HSB 6 MS 7 - 12	1498800000	B.92
HDC CM GUIDING PIN	1202660000	L.11	HDC HD 64 FC	1601740000	B.60	HDC HEE 46 FC	1826780000	B.42	HDC HVE 10+2 FS	1651360000	B.86
HDC CM GUIDING SOCKET	1202670000	L.11	HDC HD 64 FC	1601740000	B.64	HDC HEE 46 MC	1826770000	B.42	HDC HVE 10+2 FT CxH	1967260000	B.86
HDC DG 04A IP68	1987460000	L.23	HDC HD 64 MC	1601720000	B.60	HDC HEEE 40 FC	1528380000	B.40	HDC HVE 10+2 MS	1651350000	B.86
HDC DG 06B	1044610000	L.23	HDC HD 64 MC	1601720000	B.64	HDC HEEE 40 MC	1528370000	B.40	HDC HVE 10+2 MT CxH	1967210000	B.86
HDC DG 06B IP68	1987490000	L.23	HDC HD 7 FC	1650580000	B.48	HDC HP 250 F 25	1079720000	L.16	HDC HVE 3+2 FS	1651320000	B.82
HDC DG 07A	1044580000	L.23	HDC HD 7 MC	1650570000	B.48	HDC HP 250 F 35	1079730000	L.16	HDC HVE 3+2 FT CxH	1967220000	B.82
HDC DG 10A	1044590000	L.23	HDC HD 8 FC	1650800000	B.50	HDC HP 250 F 50	1079740000	L.16	HDC HVE 3+2 MS	1651310000	B.82
HDC DG 10B	1044620000	L.23	HDC HD 8 MC	1650590000	B.50	HDC HP 250 F 50 PE	1220840000	L.16	HDC HVE 3+2 MT CxH	1967230000	B.82
HDC DG 10B IP68	1987510000	L.23	HDC HDD 108 FC	1651220000	B.74	HDC HP 250 F 70	1079750000	L.16	HDC HVE 6+2 FS	1651340000	B.84
HDC DG 16A	1044600000	L.23	HDC HDD 108 FC	1651220000	B.78	HDC HP 250 F 95	1079770000	L.16	HDC HVE 6+2 FT CxH	1967240000	B.84
HDC DG 16B	1044630000	L.23	HDC HDD 108 FC 109-216	1651300000	B.78	HDC HP 250 F CM3	1415420000	D.8	HDC HVE 6+2 MS	1651330000	B.84
HDC DG 16B IP68	1987530000	L.23	HDC HDD 108 MC	1651210000	B.74	HDC HP 250 M 25	1079690000	L.16	HDC HVE 6+2 MT CxH	1967250000	B.84
HDC DG 24B	1044650000	L.23	HDC HDD 108 MC	1651210000	B.78	HDC HP 250 M 35	1079680000	L.16	HDC IP65 06B FRAME M4	1081550000	E.13
HDC DG 32A	1044640000	L.23	HDC HDD 108 MC 109-216	1651280000	B.78	HDC HP 250 M 50	1119080000	L.16	HDC IP65 10B FRAME M4	1081560000	E.17
HDC DG 49A 32B	1044660000	L.23	HDC HDD 24 FC	1651160000	B.68	HDC HP 250 M 50 PE	1220850000	L.16	HDC IP65 16B FRAME M4	1081570000	E.23
HDC DG 49B	1044670000	L.23	HDC HDD 24 MC	1651150000	B.68	HDC HP 250 M 70	1119090000	L.16	HDC IP65 24B FRAME M4	1081580000	E.31
HDC FBS TOOL 13-50	8000015137	D.7	HDC HDD 42 FC	1651180000	B.70	HDC HP 250 M 95	1119100000	L.16	HDC IP68 24B MD 2M25	1120010000	D.7
HDC FBS TOOL 13-50	8000015137	D.13	HDC HDD 42 MC	1651170000	B.70	HDC HP 250 M CM3	1415410000	D.8	HDC IP68 24B MD 2M25	1120010000	D.13
HDC FIXING SC SIZE1 M3x6	1168850000	L.18	HDC HDD 72 FC	1651200000	B.72	HDC HP 250 SHOCKPROTEC	1120130000	D.7	HDC IP68 24B MD 2M32	1120000000	D.7
HDC FIXING SCREW M3x10	1029510000	L.18	HDC HDD 72 FC	1651200000	B.76	HDC HP 250 SSF B0 SET	2008220000	D.7	HDC IP68 24B MD 2M32	1120000000	D.13
HDC FLDG 04A	1044480000	L.23	HDC HDD 72 FC 73-144	1651260000	B.76	HDC HP 250 SSM B0 SET	2008210000	D.7	HDC IP68 24B MD 3M40	1119970000	D.13
HDC FLDG 04A AW IP68	1987470000	L.23	HDC HDD 72 MC	1651190000	B.72	HDC HP 550 F 120	1079820000	L.17	HDC IP68 24B MD 3M40	1119970000	D.13
HDC FLDG 04A IP68	1987450000	L.23	HDC HDD 72 MC	1651190000	B.76	HDC HP 550 F 150	1079830000	L.17	HDC IP68 04A ADS	1083130000	F.4
HDC FLDG 06B	1044500000	L.23	HDC HDD 72 MC 73-144	1651240000	B.76	HDC HP 550 F 185	1079840000	L.17	HDC IP68 04A ADS 1PG13	1083120000	F.4
HDC FLDG 06B IP68	1987480000	L.23	HDC HE 10 FC	1204400000	B.22	HDC HP 550 F 240	1120600000	L.17	HDC IP68 04A AS	1081470000	F.4
HDC FLDG 10A	1044490000	L.23	HDC HE 10 FP	1873540000	H.15	HDC HP 550 F 25	1220570000	L.17	HDC IP68 04A AWS	1081490000	F.4
HDC FLDG 10B	1044510000	L.23	HDC HE 10 FS	1204100000	B.22	HDC HP 550 F 50	1177100000	L.17	HDC IP68 04A AWS 1M20	1081480000	F.4
HDC FLDG 10B IP68	1987500000	L.23	HDC HE 10 FS	1204100000	B.12	HDC HP 550 F 70	1268820000	L.17	HDC IP68 04A AWS 1M25	2430170000	F.4
HDC FLDG 16A	1044520000	L.23	HDC HE 10 FS	1204100000	H.12	HDC HP 550 F 95	1079810000	L.17	HDC IP68 04A COVER	1083110000	F.4
HDC FLDG 16B	1044530000	L.23	HDC HE 10 FS	1204100000	H.13	HDC HP 550 F 95	1079810000	L.17	HDC IP68 04A TOS 1M20	1082390000	F.4
HDC FLDG 16B IP68	1987520000	L.23	HDC HE 10 FS	1204100000	H.13	HDC HP 550 M 120	1119110000	L.17	HDC IP68 04A TOS 1M25G	1513390000	F.4
HDC FLDG 24B	1044550000	L.23	HDC HE 10 FT	1745770000	B.22	HDC HP 550 M 150	1119120000	L.17	HDC IP68 04A TOS 1M25G	1513390000	F.4
HDC FLDG 24B IP68	1987540000	L.23	HDC HE 10 MC	1204300000	B.22	HDC HP 550 M 185	1120580000	L.17	HDC IP68 04A TOS 1PG13	1082410000	F.4
HDC FLDG 24B XXL IP68	1987550000	L.23	HDC HE 10 MP	1873550000	H.15	HDC HP 550 M 240	1120590000	L.17	HDC IP68 06B AS	1081510000	F.5
HDC FLDG 32A	1044540000	L.23	HDC HE 10 MS	1203900000	B.22	HDC HP 550 M 25	1220580000	L.17	HDC IP68 06B COVER	1083060000	F.5
HDC FLDG 32B	1044560000	L.23	HDC HE 10 MS	1203900000	H.12	HDC HP 550 M 50	1157800000	L.17	HDC IP68 06B FRAME M6	1110890000	F.5
HDC FLDG 48B	1044570000	L.23	HDC HE 10 MS	1203900000	H.12	HDC HP 550 M 70	1268810000	L.17	HDC IP68 06B SS 2M20	1081250000	F.5
HDC GRIP PANEL 3 ADAPT	1444680000	L.19	HDC HE 10 MS	1203900000	H.13	HDC HP 550 M 95	1079790000	L.17	HDC IP68 06B SS 2M25	1081180000	F.5
HDC GRIP PANEL 4 ADAPT	1444710000	L.19	HDC HE 10 MS	1203900000	H.13	HDC HP 550 M 95	1079790000	L.17	HDC IP68 06B SS 1M20	1081190000	F.5
HDC GRIP PANEL 6 ADAPT	1444720000	L.19	HDC HE 10 MS	1203900000	H.13	HDC HP 550 SHOCKPROTEC	1120140000	D.13	HDC IP68 06B SS 1M25	1081190000	F.5
HDC GRIP PANEL 8 ADAPT	1444730000	L.19	HDC HE 10 MT	1745830000	B.22	HDC HP 550 SRF SET	1987950000	D.13	HDC IP68 06B SS 1M32	1081210000	F.5
HDC HA 10 FC	1873860000	B.10	HDC HE 10 MT	1745830000	B.22	HDC HP 550 SSM SET	1987920000	D.13	HDC IP68 06B SS 1PG29	1081230000	F.5
HDC HA 10 FS	1650820000	B.10	HDC HE 16 FC	1208000000	B.24	HDC HP CODING SYSTEM	1160780000	L.12	HDC IP68 06B SS 2M25	1081240000	F.5
HDC HA 10 FT	1896780000	B.10	HDC HE 16 FC	1208000000	B.28	HDC HQ 7 CPF	1003220000	L.13	HDC IP68 06B SS 2M32	1081220000	F.5
HDC HA 10 MC	1873870000	B.10	HDC HE 16 FC 17-32	1216700000	B.28	HDC HQ 7 CPM	1003230000	L.13	HDC IP68 06B SS 2PG29	1081260000	F.5
HDC HA 10 MS	1650610000	B.10	HDC HE 16 FP	1875660000	H.19	HDC HQ 12 FC	1993820000	B.100	HDC IP68 06B SS 2M32	1081220000	F.5
HDC HA 10 MT	1896790000	B.10	HDC HE 16 FP 17-32	1875740000	B.28	HDC HQ 12 MC	1993810000	B.100	HDC IP68 06B TOS 1M20	1082420000	F.5
HDC HA 16 FC	1873880000	B.16	HDC HE 16 FS	1207700000	H.25	HDC HQ 17 MC	1003200000	B.104	HDC IP68 06B TOS 1M25	1082430000	F.5
HDC HA 16 FC 17 - 32	1876040000	B.14	HDC HE 16 FS 17-32	1216100000	H.25	HDC HQ 17 MT	1003210000	B.104	HDC IP68 06B TOS 1M32 CS	1288190000	F.5
HDC HA 16 FC 17 - 32	1876040000	B.16	HDC HE 16 FT	1745780000	B.28	HDC HQ 17 MT	1003210000	B.106	HDC IP68 06B TOS 1M40	1082450000	F.5
HDC HA 16 FC 33 - 48	1875540000	B.16	HDC HE 16 FT 17-32	1745800000	B.28	HDC HQ 4/2 FC	1003170000	B.106	HDC IP68 06B TOS 1M40	1082450000	F.5
HDC HA 16 FS	1650780000	B.12	HDC HE 16 MC	1207900000	B.24	HDC HQ 4/2 MC	1003170000	B.106	HDC IP68 06B TOS 1PG16	1082460000	F.5
HDC HA 16 FS	1650780000	B.14	HDC HE 16 MC	1207900000	B.24	HDC HQ 5 FC	1912460000	B.96	HDC IP68 06B TOS 1PG16	1082470000	F.5
HDC HA 16 FS	1650780000	B.16	HDC HE 16 MC	1207900000	B.24	HDC HQ 5 MC	1912440000	B.96	HDC IP68 06B TOS 1PG29	1082480000	F.5
HDC HA 16 FS 17-32	1650900000	B.14	HDC HE 16 MC	1207900000	B.28	HDC HQ 7 FC	1003180000	B.98	HDC IP68 06B TSS 1M20	1082510000	F.5
HDC HA 16 FS 17-32	1650900000	B.16	HDC HE 16 MC 17-32	1216500000	B.28	HDC HQ 7 MC	1003190000	B.98	HDC IP68 06B TSS 1M25	1082530000	F.5
HDC HA 16 FS 33-48	1651020000	B.16	HDC HE 16 MP	1873570000	H.19	HDC HQ 8 FC	1919980000	B.102	HDC IP68 06B TSS 1M32	1082550000	F.5
HDC HA 16 FT	1896800000	B.12	HDC HE 16 MP 17-32	1875800000	B.28	HDC HQ 8 MC	1919970000	B.102	HDC IP68 06B TSS 1PG16	1082560000	F.5
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1027650000	HDC KIT HE-P 06.10 M	H.10
1027660000	HDC KIT HE-P 06.10	H.11
1027670000	HDC KIT HE-P 10.110 M	H.14
1027680000	HDC KIT HE-P 10.110	H.15
1027690000	HDC KIT HE-P 16.120 M	H.18
1028030000	HDC SCREW ADAPTER W/O T	L.21
1029440000	HDC PE HD / HDD/CF SCREW M4x6	L.18
1029470000	HDC PE HSB/S SCREW M5x8	L.18
1029510000	HDC FIXING SCREW M3x10	L.18
1029520000	HDC PE S6/6 SCREW M4x8	L.18

1040000000

1041760000	HDC 16A TSLU 1M20G	E.19
1044080000	HULSE REMOVAL TOOL CM 3	J.17
1044100000	HULSE REMOVAL TOOL HD	J.17
1044480000	HDC FLDG 04A	L.23
1044490000	HDC FLDG 10A	L.23
1044500000	HDC FLDG 06B	L.23
1044510000	HDC FLDG 10B	L.23
1044520000	HDC FLDG 16A	L.23
1044530000	HDC FLDG 16B	L.23

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1044540000	HDC FLDG 32A	L.23
1044550000	HDC FLDG 24B	L.23
1044560000	HDC FLDG 32B	L.23
1044570000	HDC FLDG 48B	L.23
1044580000	HDC DG 07A	L.23
1044590000	HDC DG 10A	L.23
1044600000	HDC DG 16A	L.23
1044610000	HDC DG 06B	L.23
1044620000	HDC DG 10B	L.23
1044630000	HDC DG 16B	L.23
1044640000	HDC DG 32A	L.23
1044650000	HDC DG 24B	L.23
1044660000	HDC DG 48A 32B	L.23
1044670000	HDC DG 48B	L.23
1045530000	VG16 HQ K68 9-12SH	K.16
1045540000	VG16 HQ K68 11.5-15.5SH	K.16
1045560000	HDC 64D TOBU 1M40G	E.26

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1052430000	HDC 10B ABO	E.17
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1060000000

1061700000	HDC KIT HE-P 24.131 M	H.22
1061710000	HDC KIT HE-P 06.11	H.11
1061720000	HDC KIT HE-P 06.11 M	H.10
1061730000	HDC KIT HE-P 10.111	H.15
1061740000	HDC KIT HE-P 10.111 M	H.14
1061750000	HDC KIT HE-P 16.121	H.19
1061770000	HDC KIT HE-P 16.121 M	H.18
1061780000	HDC KIT HE-P 24.130 M	H.23
1061790000	HDC KIT HE-P 24.130 M	H.22
1061800000	HDC KIT HE-P 24.131	H.23

1070000000

1076630000	KSWN M16	K.19
1076640000	KSWN M25	K.19
1076650000	KSWN M32	K.19
1076660000	KSWN M63	K.19
1076670000	KSWN M75	K.19
1076680000	KSWF M16	K.20
1076690000	KSWF M32	K.20
1076710000	KSWF M40	K.20
1076720000	KSWF M50	K.20
1076730000	KSWF M63	K.20
1076740000	KSWF M75	K.20
1077300000	IE-PS-V05M-A-RJ45-FH	G.2
1079640000	HDC 24B HP250 MPL3 TYP1	D.7
1079680000	HDC HP 250 M 35	L.6
1079690000	HDC HP 250 M 25	L.6
1079720000	HDC HP 250 F 25	L.6
1079730000	HDC HP 250 F 35	L.6
1079740000	HDC HP 250 F 50	L.6
1079750000	HDC HP 250 F 70	L.6
1079770000	HDC HP 250 F 95	L.6
1079780000	HDC HP 550 M 120	L.7
1079790000	HDC HP 550 M 95	L.7
1079810000	HDC HP 550 F 95	L.7
1079820000	HDC HP 550 F 120	L.7
1079830000	HDC HP 550 F 150	L.7
1079840000	HDC HP 550 F 185	L.7
1079910000	HDC IP68 24B MD 3M25	D.13
1079920000	HDC IP68 HP 24B AS S	D.12
1079930000	HDC IP68 HP 24B TO	D.12

1080000000

1081180000	HDC IP68 06B SS 1M20	F.5
1081190000	HDC IP68 06B SS 1M25	F.5
1081210000	HDC IP68 06B SS 1M32	F.5
1081220000	HDC IP68 06B SS 2M32	F.5
1081230000	HDC IP68 06B SS 1PG29	F.5
1081240000	HDC IP68 06B SS 2M25	F.5
1081250000	HDC IP68 06B SS 2M20	F

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1119100000	HDC HP 250 M 95	I.6
1119110000	HDC HP 550 M 150	I.7
1119950000	HDC IP68 24B MD	D.7
1119950000	HDC IP68 24B MD	D.13
1119970000	HDC IP68 24B MD 3M40	D.7
1119970000	HDC IP68 24B MD 3M40	D.13
1119980000	HDC IP68 24B MD 3M32	D.7
1119980000	HDC IP68 24B MD 3M32	D.13
1119990000	HDC IP68 24B MD 2M40	D.7
1119990000	HDC IP68 24B MD 2M40	D.13

1120000000

1120000000	HDC IP68 24B MD 2M32	D.7
1120000000	HDC IP68 24B MD 2M32	D.13
1120010000	HDC IP68 24B MD 2M25	D.7
1120010000	HDC IP68 24B MD 2M25	D.13
1120040000	HDC IP68 HP 24B A	D.6
1120040000	HDC IP68 HP 24B A	D.12
1120130000	HDC HP 250 SHOCKPROTEC	D.7
1120140000	HDC HP 550 SHOCKPROTEC	D.13
1120580000	HDC HP 550 M 185	I.7
1120590000	HDC HP 550 M 240	I.7
1120600000	HDC HP 550 F 240	I.7

1130000000

1132010000	IE-PIRJ45-FH-A	G.4
1132020000	IE-PIRJ45-FH-B	G.4
1132030000	IE-PIRJ45-FH-P	G.4

1150000000

1157800000	HDC HP 550 M 50	I.7
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1160000000

1160430000	HDC 24B HP250 MPL4 TYP1	D.7
1160440000	HDC 24B HP250 MPL4 TYP2	D.7
1160450000	HDC IP68 24B MD 4M25 T1	D.7
1160780000	HDC HP CODING SYSTEM	I.12
1165790000	HDC 32B DDDQ 480	E.33
1168850000	HDC FIXING SC SIZE1 M3x6	I.18

1170000000

1177100000	HDC HP 550 F 50	I.7
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1190000000

1193570000	VGM25-SS68 11-20 BG	K.15
1193580000	VGM32-SS68 15-25 BG	K.15
1193590000	VGM40-SS68 20-32 BG	K.15
1193600000	VGM25-MS68 11-20 BG	K.8
1193610000	VGM32-MS68 15-25 BG	K.8
1193620000	VGM40-MS68 20-32 BG	K.8

1200000000

1200000000	HDC HE 6 MS	H.9
1200200000	HDC HE 6 FS	H.9
1200400000	HDC HE 6 MC	B.20
1200500000	HDC-C-HE-SM0.5AG	I.4
1200600000	HDC-C-HE-SM0.75-1.00AG	I.4
1200700000	HDC-C-HE-SM1.5AG	I.4
1200800000	HDC-C-HE-SM2.5AG	I.4
1200900000	HDC-C-HE-SM4.0AG	I.4
1201000000	HDC HE 6 FC	B.20
1201100000	HDC-C-HE-BM0.5AG	I.4
1201200000	HDC-C-HE-BM0.75-1.00AG	I.4
1201300000	HDC-C-HE-BM1.5AG	I.4
1201400000	HDC-C-HE-BM2.5AG	I.4
1201500000	HDC-C-HE-BM4.0AG	I.4
1202100000	HDC 06B ALU	H.11
1202500000	HDC 06B ADLU	B.21
1202500000	HDC 06B ADLU	B.35
1202500000	HDC 06B ADLU	B.69
1202500000	HDC 06B ADLU	B.113
1202500000	HDC 06B ADLU	E.13
1202660000	HDC CM GUIDING PIN	I.11
1202670000	HDC CM GUIDING SOCKET	I.11
1203600000	SPB-M 3	I.10
1203900000	HDC HE 10 MS	B.22
1203900000	HDC HE 10 MS	H.12
1203900000	HDC HE 10 MS	H.12
1203900000	HDC HE 10 MS	H.13
1203900000	HDC HE 10 MS	H.13
1204100000	HDC HE 10 FS	B.22
1204100000	HDC HE 10 FS	H.12
1204100000	HDC HE 10 FS	H.12
1204100000	HDC HE 10 FS	H.13
1204100000	HDC HE 10 FS	H.13
1204300000	HDC HE 10 MC	B.22
1204400000	HDC HE 10 FC	B.22
1205000000	HDC 10B ABU	H.15
1205600000	HDC 10B ADBO	E.17
1205800000	VGM40/1-MS68 20-32 BG	K.8
1205920000	VGM40/1-SS68 20-32 BG	K.15
1206090000	HDC 04A TOLU 1M16G	E.6

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1206500000	HDC 10B ADLU	E.16
1207500000	HDC HE 16 MS	H.25
1207700000	HDC HE 16 FS	H.25
1207900000	HDC HE 16 MC	B.24
1207900000	HDC HE 16 MC	B.28
1208000000	HDC HE 16 FC	B.24
1208000000	HDC HE 16 FC	B.28
1208600000	HDC 16B ABU	H.28
1209200000	HDC 16B ADBO	E.23
1209700000	HDC 16B ALU	E.22

1210000000

1210100000	HDC 16B ADLU	E.22
1211100000	HDC HE 24 MS	H.27
1211300000	HDC HE 24 FS	H.27
1211500000	HDC HE 24 MC	B.26
1211500000	HDC HE 24 MC	B.30
1211600000	HDC HE 24 FC	B.26
1211600000	HDC HE 24 FC	B.30
1212400000	HDC 24B ABU	H.23
1212890000	HDC 24B HP250 MPL4PE T1	D.7
1212910000	HDC 24B HP250 MPL4PE T2	D.7
1213300000	HDC 24B ADBO	E.30
1213900000	HDC 24B ALU	E.29
1214300000	HDC 24B ADLU	E.29
1214500000	HDC 24B SDLU 2PG21G	E.29
1215700000	HDC HE 16 MS 17-32	H.25
1215900000	HDC 06B DC	I.24
1215910000	HDC 10B DC	I.24
1215920000	HDC 16B DC	I.24
1215930000	HDC 24B DC	I.24
1216100000	HDC HE 16 FS 17-32	H.25
1216500000	HDC HE 16 MC 17-32	B.28
1216700000	HDC HE 16 FC 17-32	B.28
1217800000	HDC 32B ABU	H.25
1218800000	HDC 32B ADBO	E.35
1219300000	HDC 32B TOLU 1PG29G	E.34
1219500000	HDC 32B ALU	E.34
1219800000	HDC 32B ADLU	E.34

1220000000

1220570000	HDC HP 550 F 25	I.7
1220580000	HDC HP 550 M 25	I.7
1220800000	HDC HE 24 MS 25-48	H.27
1220840000	HDC HP 250 F 50 PE	I.6
1220850000	HDC HP 250 M 50 PE	I.6
1220860000	HDC IP68 24B MD 4M25 T2	D.7
1221200000	HDC HE 24 FS 25-48	H.27
1222900000	HDC 48B ADLU	H.27
1226400000	HDC HE 24 MC 25-48	B.30
1226600000	HDC HE 24 FC 25-48	B.30

1250000000

1251660000	HDC HQP DMD 280 CS	E.8
1251660000	HDC HQP DMD 280 CS	E.9
1251670000	HDC HQP DOD 280 CS	E.8
1251670000	HDC HQP DOD 280 CS	E.9
1251680000	HDC HQM ALU BC	E.9

1260000000

1268810000	HDC HP 550 M 70	I.7
1268820000	HDC HP 550 F 70	I.7

1270000000

1270320000	CTX CM 3.6 ZERT	J.3
1271250000	IE-PS-V05M-RJ45-FH-B	G.2

1280000000

1282820000	HDC IP68 24B HP FRAME	D.6
1282820000	HDC IP68 24B HP FRAME	D.12
1288190000	HDC IP68 06B TOS 1M32 CS	F.5
1289130000	HDC IP68 24B TOS 2M40 TSS 1M32	F.8

1290000000

1295600000	HDC 48B ALU	E.36
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1310000000

1318130000	WK IK SL/PH1	J.11
1318140000	WK IK SL/PH2	J.11
1318390000	SDQ T15	J.16
1318400000	SDQ T20	J.16
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1350000000

1354950000	HDC HQP ALU CS	E.8
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1415420000	HDC HP 250 F CM3	D.8

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1428840000	HDC MHD 12 MC	C.16
1428850000	HDC MHD 12 FC	C.16
1428860000	HDC MHD 36 MC	C.15
1428870000	HDC MHD 36 FC	C.15
1428880000	HDC MHE 8 MC	C.13
1428890000	HDC MHE 8 FC	C.13
1428910000	HDC MHE 20 MC	C.12
1428920000	HDC MF 6B AB	C.6
1428930000	HDC MHE 20 FC	C.12
1428940000	HDC MF 6B BA	C.6
1428950000	HDC MHX 4P MC	C.9
1428960000	HDC MF 10B AC	C.6
1428970000	HDC MHX 4P FC	C.9
1428980000	HDC MF 10B CA	C.6
1428990000	HDC MBUS 2 MC	C.17
1429010000	HDC MF 16B AD	C.7
1429020000	HDC MBUS 2 FC	C.17
1429030000	HDC MF 16B DA	C.7
1429040000	HDC MDU	C.18
1429050000	HDC MF 24B AF	C.7
1429060000	HDC MHP 100 MC	C.8
1429070000	HDC MF 24B FA	C.7
1429080000	HDC MHP 100 FC	C.8
1429340000	HDC MHX 3 MC	C.10
1429350000	HDC MHX 3 FC	C.10
1429360000	HDC MHE 6 MC	C.14
1429370000	HDC MHE 6 FC	C.14

1430000000

1435410000	HDC MSL6	I.16
1435420000	HDC MSL10	I.16
1435430000	HDC MSL16	I.16
1435440000	HDC MSL24	I.16
1435700000	HDC MHP100 M 10	C.8
1435700000	HDC MHP100 M 25	C.8
1435700000	HDC MHP100 M 35	C.8
1435700000	HDC MHP100 F 10	C.8
1435700000	HDC MHP100 F 16	C.8
1435820000	HDC MHP100 F 25	C.8
1435830000	HDC MHP100 F 35	C.8

1440000000

1444680000	HDC GRIP PANEL 3 ADAPT	I.19
1444710000	HDC GRIP PANEL 4 ADAPT	I.19
1444720000	HDC GRIP PANEL 6 ADAPT	I.19
1444730000	HDC GRIP PANEL 8 ADAPT	I.19

1460000000

1463720000	VGM25-MS68 EMC 11-20SET	K.13
1463730000	VGM32-MS68 EMC 15-25SET	K.13

1470000000

1471300000	DSTV COST4	I.11
1471500000	DSTV COBU5	I.11

1480000000

1480290000	HDC MF FIXING	C.6
1480290000	HDC MF FIXING	C.6
1480290000	HDC MF FIXING	C.7
1480290000	HDC MF FIXING	C.7
1480380000	HDC MHP REMOVAL TOOL	J.17
1480940000	HDC MF CA16 PE	I.16

1490000000

1497600000	HDC 04A ALU	H.7
1497700000	HDC 04A AWLU	H.7
1498100000	HDC HA 3 MS	H.5
1498200000	HDC HA 3 FS	H.5
1498300000	HDC HA 4 MC	H.7
1498400000	HDC HA 4 FS	H.7
1498700000	HDC HSB 6 MS	H.28
1498800000	HDC HSB 6 MS 7 - 12	B.92
1498900000	HDC HSB 6 FS	H.28
1499000000	HDC HSB 6 FS 7 - 12	B.92

1500000000

1500830000	EPG 45	J.7
1500930000	ES MTR110 HEX 6	J.7
1500940000	ES MTR110 HEX 10/70	J.7
1500950000	ES MTR110 HEX 16/35	J.7
1500970000	ES MTR110 HEX 25/50	J.7
1500980000	ES MTR110 HEX 95	J.7
1500990000	ES MTR110 HEX 120	J.7
1501390000	APG 55	J.7

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1501540000	ES APG/HPG55 HEX 10/70	J.7
1501550000	ES APG/HPG55 HEX 16/35	J.7
1501570000	ES APG/HPG55 HEX 25/50	J.7
1501580000	ES APG/HPG55 HEX 95	J.7
1501590000	ES APG/HPG55 HEX 120	J.7
1501600000	ES APG/HPG55 HEX 150	J.7
1501620000	ES APG/HPG55 HEX 185	J.7
1502390000	APG 80	J.7
1502600000	ES APG/HPG80 HEX 6	J.7
1502620000	ES APG/HPG80 HEX 10	J.7
1502630000	ES APG/HPG80 HEX 16	J.7
1502640000	ES APG/HPG80 HEX 25	J.7
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1650880000	HDC HA 16 MS 17-32	B.16
1650900000	HDC HA 16 FS 17-32	B.14
1650900000	HDC HA 16 FS 17-32	B.16
1650980000	HDC 48B TOLLU 1PG29G	E.36
1650990000	HDC HA 16 MS 33-48	B.16
1651000000	HDC 48B TOLLU 1PG36G	E.36
1651020000	HDC HA 16 FS 33-48	B.16
1651100000	HDC 48B SLU 1PG29G	E.36
1651150000	HDC HDD 24 MC	B.68
1651160000	HDC HDD 24 FC	B.68
1651170000	HDC HDD 42 MC	B.70
1651180000	HDC HDD 42 FC	B.70
1651190000	HDC HDD 72 MC	B.72
1651190000	HDC HDD 72 MC	B.76
1651200000	HDC HDD 72 FC	B.72
1651200000	HDC HDD 72 FC	B.76
1651210000	HDC HDD 108 MC	B.74
1651210000	HDC HDD 108 MC	B.78
1651220000	HDC HDD 108 FC	B.74
1651220000	HDC HDD 108 FC	B.78
1651240000	HDC HDD 72 MC 73-144	B.76
1651260000	HDC HDD 72 FC 73-144	B.76
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1651300000	HDC HDD 108 FC 109-216	B.78
1651310000	HDC HVE 3+2 MS	B.82
1651320000	HDC HVE 3+2 FS	B.82
1651330000	HDC HVE 6+2 MS	B.84
1651340000	HDC HVE 6+2 FS	B.84
1651350000	HDC HVE 10+2 MS	B.86
1651360000	HDC HVE 10+2 FS	B.86
1651420000	HDC C-HE-SM0.5AU	L.4
1651430000	HDC C-HE-SM0.75-1.00AU	L.4
1651440000	HDC C-HE-SM1.5AU	L.4
1651450000	HDC C-HE-SM2.5AU	L.4
1651460000	HDC C-HE-SM4.0AU	L.4
1651470000	HDC C-HE-BM0.5AU	L.4
1651480000	HDC C-HE-BM0.75-1.00AU	L.4
1651490000	HDC C-HE-BM1.5AU	L.4
1651500000	HDC C-HE-BM2.5AU	L.4
1651510000	HDC C-HE-BM4.0AU	L.4
1651520000	HDC C-HD-SM0.140-0.37AG	L.4
1651530000	HDC C-HD-SM0.5AG	L.4
1651550000	HDC C-HD-SM1.5AG	L.4
1651560000	HDC C-HD-SM2.5AG	L.4
1651570000	HDC C-HD-SM0.140-0.37AG	L.4
1651580000	HDC C-HD-SM0.5AG	L.4
1651600000	HDC C-HD-SM1.5AG	L.4
1651610000	HDC C-HD-SM2.5AG	L.4
1651620000	HDC C-HD-SM0.140-0.37AU	L.4
1651630000	HDC C-HD-SM0.5AU	L.4
1651640000	HDC C-HD-SM0.75-1.00AU	L.4
1651650000	HDC C-HD-SM1.5AU	L.4
1651660000	HDC C-HD-SM2.5AU	L.4
1651670000	HDC C-HD-SM0.140-0.37AU	L.4
1651680000	HDC C-HD-SM0.5AU	L.4
1651690000	HDC C-HD-SM0.75-1.00AU	L.4
1651700000	HDC C-HD-SM1.5AU	L.4
1651710000	HDC C-HD-SM2.5AU	L.4
1652380000	HDC 07A TOLLU 1PG11G	H.7
1652400000	HDC 07A TWLW 1PG11G	E.4
1652410000	HDC 07A ALU	H.7
1652420000	HDC 07A AWLW	H.7
1652440000	HDC 07A SLU 1PG11S	E.5
1652460000	HDC 07A KOLU 1PG11G	E.5
1652470000	HDC 04A TOLLU 1PG11G	H.7
1652480000	HDC 04A TWLW 1PG11G	E.6
1652490000	HDC 04A SLU 1PG11G	E.7
1652500000	HDC 04A KOLU 1PG11G	E.7
1652520000	HDC 06B TSLU 1PG16G	H.11
1652560000	HDC 16D TSLU 1PG21G	E.12
1652580000	HDC 16D TSLU 1PG29G	E.12
1652640000	HDC 06B TOLLU 1PG16G	H.11
1652680000	HDC 16D TOLLU 1PG21G	E.12
1652700000	HDC 16D TOLLU 1PG29G	E.12
1652750000	HDC 06B SLU 1PG16G	E.13
1652760000	HDC 06B SLU 2PG16G	E.13
1652840000	HDC 16D SLU 2PG21G	E.13
1652980000	HDC 06B SDLU 1PG16G	E.13
1652990000	HDC 06B SDLU 2PG16G	E.13
1653200000	HDC 06B KLU 1PG16G	E.13
1653230000	HDC 16D KLU 1PG21G	E.13
1654070000	HDC 10B TSBU 1PG16G	H.15
1654090000	HDC 10B TSBU 1PG21G	E.14
1654150000	HDC 24D TSBU 1PG21G	E.14
1654170000	HDC 24D TSBU 1PG29G	E.14
1654220000	HDC 10B TOBU 1PG16G	H.15
1654240000	HDC 10B TOBU 1PG21G	E.14
1654320000	HDC 24D TOBU 1PG29G	E.14
1654370000	HDC 10B SBU 1PG16G	E.15
1654380000	HDC 10B SBU 2PG16G	E.15
1654450000	HDC 24D SBU 2PG21G	E.15
1654470000	HDC 24D SBU 1PG29G	E.15
1654580000	HDC 10B KBU 1PG16G	E.15
1654750000	HDC 10B TSBO 1PG16G	E.17
1654790000	HDC 24D TSBO 1PG21G	E.17
1654810000	HDC 24D TSBO 1PG16G	E.17

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1654920000	HDC 24D TOBO 1PG29G	E.17
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1655250000	HDC 24D TSLU 1PG21G	E.16
1655270000	HDC 24D TSLU 1PG29G	E.16
1655320000	HDC 10B TOLLU 1PG16G	E.16
1655360000	HDC 24D TOLLU 1PG21G	E.16
1655380000	HDC 24D TOLLU 1PG29G	E.16
1655470000	HDC 10B SLU 2PG16G	E.16
1655680000	HDC 10B SDLU 2PG16G	E.16
1655890000	HDC 10B KLU 1PG16G	E.16
1656390000	KV 11-M	K.10
1656400000	KV 13-M	K.10
1656410000	KV 16-M	K.10
1656420000	KV 21-M	K.10
1656430000	KV 29-M	K.10
1656480000	HDC 16B TSBU 1PG21G	H.28
1656520000	HDC 40D TSBU 1PG21G	E.20
1656540000	HDC 40D TSBU 1PG29G	H.20
1656590000	HDC 16B TOBU 1PG21G	E.19
1656630000	HDC 40D TOBU 1PG21G	E.20
1656650000	HDC 40D TOBU 1PG29G	E.20
1656720000	HDC 16B SBU 1PG21G	E.21
1656730000	HDC 16B SBU 2PG21G	E.21
1656810000	HDC 40D SBU 2PG21G	E.21
1656830000	HDC 40D SBU 1PG29G	E.21
1656840000	HDC 40D SBU 2PG29G	E.21
1657270000	HDC 16B KBU 1PG21G	E.21
1657310000	HDC 40D KBU 1PG21G	E.21
1657380000	HDC 16B TSBO 1PG21G	E.23
1657420000	HDC 40D TSBO 1PG21G	E.23
1657490000	HDC 16B TOBU 1PG21G	E.23
1657550000	HDC 40D TOBU 1PG29G	E.23
1657640000	HDC 16B SDBO 2PG16G	E.23
1657850000	HDC 16B TSLU 1PG21G	E.22
1657890000	HDC 40D TSLU 1PG21G	E.22
1657910000	HDC 40D TSLU 1PG29G	E.22
1657960000	HDC 16B TOLLU 1PG21G	E.22
1658020000	HDC 40D TOLLU 1PG29G	E.22
1658110000	HDC 16B SLU 1PG21G	E.22
1658120000	HDC 16B SLU 2PG21G	E.22
1658320000	HDC 16B SDLU 1PG21G	E.22
1658330000	HDC 16B SDLU 2PG21G	E.22
1658410000	HDC 40D SDLU 1PG29G	E.22

166000000

1661230000	HDC 24B TSBU 1PG21G	H.23
1661240000	HDC 24B TSBU 1PG29G	E.26
1661300000	HDC 64D TSBU 1PG21G	E.26
1661320000	HDC 64D TSBU 1PG29G	E.26
1661370000	HDC 24B TOBU 1PG21G	H.23
1661380000	HDC 24B TOBU 1PG29G	E.26
1661440000	HDC 64D TOBU 1PG21G	E.26
1661460000	HDC 64D TOBU 1PG29G	E.26
1661510000	HDC 24B SBU 1PG21G	E.27
1661520000	HDC 24B SBU 2PG21G	E.27
1661590000	HDC 64D SBU 2PG21G	E.27
1661630000	HDC 64D SBU 2PG29G	E.27
1661720000	HDC 24B KBU 1PG21G	E.27
1661730000	HDC 24B KBU 1PG29G	E.27
1661810000	HDC 64D KBU 1PG29G	E.27
1661860000	HDC 24B TSBO 1PG21G	E.30
1661980000	HDC 24B TSBO 1PG29G	E.30
1661940000	HDC 64D TSBO 1PG21G	E.30
1661960000	HDC 64D TSBO 1PG29G	E.30
1662020000	HDC 24B TOBO 1PG29G	E.30
1662080000	HDC 64D TOBO 1PG21G	E.30
1662100000	HDC 64D TOBO 1PG29G	E.30
1662180000	HDC 24B SDBO 2PG21G	E.30
1662280000	HDC 64D SDBO 1PG29G	E.30
1662390000	HDC 24B TSLU 1PG21G	E.28
1662410000	HDC 24B TSLU 1PG29G	E.28
1662470000	HDC 64D TSLU 1PG21G	E.28
1662490000	HDC 64D TSLU 1PG29G	E.28
1662540000	HDC 24B TOLLU 1PG21G	E.28
1662550000	HDC 24B TOLLU 1PG29G	E.28
1662610000	HDC 64D TOLLU 1PG21G	E.28
1662630000	HDC 64D TOLLU 1PG29G	E.28
1662720000	HDC 24B SLU 2PG21G	E.29
1663040000	HDC 64D SDLU 2PG29G	E.29
1663370000	HDC 64D TS2D 1PG21G	E.31
1663390000	HDC 64D TS2D 1PG29G	E.31
1663810000	HDC 10A TSLU 1PG16G	E.10
1663850000	HDC 15A TSLU 1PG16G	E.10
1663870000	HDC 15A TSLU 1PG21G	E.10
1663930000	HDC 10A TOLLU 1PG16G	E.10
1663990000	HDC 15A TOLLU 1PG21G	E.11
1664040000	HDC 10A ALU	E.10
1664060000	HDC 10A ADLW	E.11
1664170000	HDC 10A SLU 1PG16G	E.11
1664190000	HDC 10A SLU 2PG16G	E.11
1664210000	HDC 10A SLU 1PG21G	E.11
1664330000	ABD-2GR	I.22
1664350000	ABD-3GR	I.22
1664360000	ABD-4GR	I.22
1664370000	ABD-5GR	I.22
1664390000	ABD-6GR	I.22

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1664410000	HDC 10A SDLU 1PG16G	E.11
1664420000	HDC 10A SDLU 2PG16G	E.11
1664560000	HDC 10A KLU 1PG16G	E.11
1664630000	HDC 15A KLU 1PG21G	E.11
1664690000	HDC 16A TSLU 1PG16G	E.19
1664730000	HDC 25A TSLU 1PG16G	E.19
1664750000	HDC 25A TSLU 1PG21G	E.19
1664810000	HDC 16A TOLLU 1PG16G	E.19
1664870000	HDC 25A TOLLU 1PG21G	E.19
1664920000	HDC 16A ALU	E.19
1664940000	HDC 16A ADLW	E.19
1664960000	ABD-8-OR	I.22
1664970000	ABD-8-GR	I.22
1664980000	ADP-8/3-OR	I.22
1664990000	ADP-8/3-GR	I.22
1665000000	ADP-8/4-OR	I.22
1665010000	ADP-8/4-GR	I.22
1665020000	ADP-8/6-OR	I.22
1665030000	ADP-8/6-GR	I.22
1665070000	HDC 16A SLU 2PG16G	E.19
1665090000	HDC 16A SLU 1PG21G	E.19
1665200000	HDC 06B DODL 2B0	E.13
1665210000	HDC 06B DMDL 1B1	E.12
1665230000	HDC 10B DODD 4B0	E.15
1665240000	HDC 10B DMDQ 2B0	E.14
1665250000	HDC 10B DMDQ 4B0	E.17
1665260000	HDC 16B DODD 4B0	E.21
1665270000	HDC 16B DMDQ 2B0	E.20
1665300000	HDC 16A SDLU 2PG16G	E.19
1665450000	HDC 16A KLU 1PG16G	E.19
1665620000	HDC 16B DMDQ 4B0	E.23
1665630000	HDC 24B DODD 4B0	E.27
1665640000	HDC 24B DMDQ 2B0	E.26
1665650000	HDC 24B DMDQ 4B0	E.30
1665670000	HDC 32A TSBU 1PG21G	E.24
1665690000	HDC 32A TSBU 1PG29G	E.24
1665740000	HDC 04A DODL 2B0	E.7
1665750000	HDC 04A DMDL 2B0	E.7
1665760000	HDC 07A DODL 2B0	E.5
1665770000	HDC 07A DMDL 2B0	E.5
1665790000	HDC 32A TOBU 1PG21G	E.24
1665810000	HDC 32A TOBU 1PG29G	E.24
1665860000	HDC 32A ABU	E.24
1665880000	HDC 10A DMDL 2B0	E.11
1665890000	HDC 10A DODL 1B1	E.10
1665900000	HDC 16A DODL 1B1	E.19
1665910000	HDC 16A DMDL 2B0	E.19
1665920000	HDC 32A DODQ 4B0	E.24
1665930000	HDC 32A DMDQ 2B0	E.24
1665940000	ADS/6-1/9	I.22
1665950000	ADS/6-2/9	I.22
1665980000	HDC 32A SBU 2PG21G	E.24
1666010000	HDC 32A SBU 1PG29G	E.24
1666200000	ADS/6-1/15	I.22
1666210000	ADS/6-2/15	I.22
1666220000	ADS/10-1/25	I.22
1666230000	ADS/10-2/25	I.22
1666270000	HDC 32A TSBO 1PG29G	E.25
1666320000	ADS/16-1/25	I.22
1666330000	ADS/16-2/25	I.22
1666340000	ADS/16-3/27	I.22
1666350000	ADS/16-2/37	I.22
1666440000	HDC 32A ABDO	E.25
1666460000	ADS/16-1/50	I.22
1666550000	HDC 32A SDBO 1PG21G	E.25
1666590000	HDC 32A SDBO 1PG29G	E.25
1666710000	HDC 48A TSLU 1PG29G	E.32
1666730000	HDC 48A TOLLU 1PG29G	E.32
1666740000	HDC 48A ALU	E.32
1666750000	HDC 48A ADLW	E.32
1666770000	HDC 48A SLU 1PG29G	E.32
1666810000	HDC 48A SDLU 1PG29G	E.32
1666840000	HDC 32B TSBU 1PG29G	H.25
1666870000	HDC 32B TOBU 1PG29G	E.33
1666920000	HDC	

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1745860000	HDC HE 16 MT 17-32	B.28
1745870000	HDC HE 24 MT 25-48	B.30
1746170000	HDC 10A TOLL 2PG11G	E.10

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1772200000	VG M12 - MS 68	K.7
1772210000	VG M16 - MS 68	K.7
1772220000	VG M20 - MS 68	K.7
1772230000	VG M25 - MS 68	K.7
1772240000	VG M32 - MS 68	K.7
1772250000	VG M40 - MS 68	H.26
1772250000	VG M40 - MS 68	K.7
1772260000	VG M50 - MS 68	K.7
1772270000	VG M63 - MS 68	K.7
1772280000	VG M12-1/K68	K.5
1772290000	VG M16 - K 68	K.5
1772300000	VG M20-1/K68	K.5
1772310000	VG M25 - K 68	K.5
1772320000	VG M32 - K 68	K.5
1772330000	VG M40 - K 68	K.5
1772340000	VG M50 - K 68	K.5
1772350000	VG M63-1/K68	K.5
1773630000	HDC C-HD-S-LWL11.OPDF	I.8
1773640000	HDC C-HD-B-LWL11.OPDF	I.8
1776700000	VG M12-K68 SKS	K.6
1776710000	VG M16-K68 SKS	K.6
1776720000	VG M20-K68 SKS 10-14	K.6
1776730000	VG M25-K68 SKS	K.6
1776900000	VP M25 K54	K.21
1776910000	VP M20 K54	K.21
1776920000	VP M16 K54	K.21
1776930000	VP M12 K54	K.21
1776940000	VP M32 K54	K.21
1776950000	VP M40 K54	K.21
1776960000	VP M50 K54	K.21
1776970000	VP M63 K54	K.21
1777270000	VP M12-MS65	K.22
1777300000	VP M16-MS65	K.22
1777340000	VP M20-MS65	K.22
1777350000	VP M25-MS65	K.22
1777760000	VP M32-MS65	K.22
1777770000	VP M40-MS65	K.22
1777780000	VP M50-MS65	K.22
1777790000	VP M63-MS65	K.22
1777920000	GWDR M12-PO	K.17
1777930000	GWDR M16-PO	K.17
1777940000	GWDR M20-PO	K.17
1777950000	GWDR M25-PO	K.17
1777960000	GWDR M32-PO	K.17
1777970000	GWDR M40-PO	K.17
1777980000	GWDR M50-PO	K.17
1777990000	GWDR M63-PO	K.17
1784240000	VGM12-MS54 ZE 5,0-7,0	K.9
1784440000	VGM16-MS54 ZE	K.9
1784540000	VGM20-MS54 ZE	K.9
1784640000	VGM20-MS54 ZE 6,0-13,5	K.9
1784840000	VGM25-MS54 ZE	K.9
1784940000	VGM32-MS54 ZE	K.9
1785050000	VGM40-MS54 ZE	K.9
1785200000	VGM50-MS54 ZE	K.9
1785300000	VGM63-MS54 ZE	K.9
1788660000	VG M20-K68 SKS 6-12	K.6

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1783250000	HDC 10A KLU 2PG09G	E.11
1786770000	HDC 64D TSBU 1M32G	E.26
1786780000	HDC 64D TSBU 1M25G	E.26
1786790000	HDC 64D TSB0 1M32G	E.30
1786800000	HDC 64D TSB0 1M25G	E.30
1786810000	HDC 64D TSLU 1M32G	E.28
1786830000	HDC 64D TOBU 1M32G	E.26
1786860000	HDC 64D TOLL 1M32G	E.28
1786870000	HDC 64D TOLL 1M25G	E.28
1786880000	HDC 64D SBU 2M32G	E.27
1786890000	HDC 64D SBU 2M25G	E.27
1786900000	HDC 64D SBU 2M32G	E.29
1786910000	HDC 64D SBU 2M25G	E.29
1786920000	HDC 64D SBU 2M32G	E.29
1786930000	HDC 64D SBU 2M25G	E.29
1786940000	HDC 64D SBU 2M32G	E.29
1786950000	HDC 64D SBU 2M25G	E.29
1786960000	HDC 64D SBU 2M32G	E.29
1786970000	HDC 64D SBU 2M25G	E.29
1786980000	HDC 64D SBU 2M32G	E.29
1786990000	HDC 64D SBU 2M25G	E.29
1787000000	HDC 40D TSBU 1M32G	E.20
1787010000	HDC 40D TSBU 1M25G	E.20
1787020000	HDC 40D TSB0 1M32G	E.23
1787030000	HDC 40D TSB0 1M25G	E.23
1787040000	HDC 40D TSLU 1M32G	E.22
1787050000	HDC 40D TSLU 1M25G	E.22
1787060000	HDC 40D TOBU 1M32G	E.20
1787070000	HDC 40D TOBU 1M25G	E.20
1787100000	HDC 40D TOLL 1M32G	E.22
1787110000	HDC 40D TOLL 1M25G	E.21
1787120000	HDC 40D SBU 2M32G	E.21
1787130000	HDC 40D SBU 2M25G	E.21
1787140000	HDC 40D SBU 2M32G	E.22
1787150000	HDC 40D SBU 2M25G	E.22
1787160000	HDC 40D KBU 1M32G	E.21
1787170000	HDC 40D KBU 1M25G	E.21
1787180000	HDC 40D KBU 1M32G	E.21
1787190000	HDC 40D KBU 1M25G	E.21
1787200000	HDC 40D KBU 1M25G	E.21
1787220000	HDC 40D KLU 1M25G	E.22

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1787230000	HDC 24D TSBU 1M32G	E.14
1787240000	HDC 24D TSBU 1M25G	E.14
1787250000	HDC 24D TSB0 1M32G	E.17
1787260000	HDC 24D TSB0 1M25G	E.17
1787270000	HDC 24D TSLU 1M32G	E.16
1787280000	HDC 24D TSLU 1M25G	E.16
1787290000	HDC 24D TOBU 1M32G	E.14
1787300000	HDC 24D TOBU 1M25G	E.14
1787310000	HDC 24D TOLL 1M32G	E.16
1787320000	HDC 24D TOLL 1M25G	E.16
1787330000	HDC 24D TOLL 1M32G	E.16
1787340000	HDC 24D TOLL 1M25G	E.16
1787350000	HDC 24D SBU 2M25G	E.15
1787360000	HDC 24D SBU 2M32G	E.15
1787370000	HDC 24D SBU 2M25G	E.16
1787400000	HDC 24D SDB0 2M25G	E.17
1787410000	HDC 24D SDB0 2M32G	E.16
1787420000	HDC 24D SDBU 2M25G	E.16
1787430000	HDC 24D SDBU 2M32G	E.16
1787440000	HDC 24D KLU 1M32G	E.16
1787450000	HDC 24D KLU 1M25G	E.16
1787460000	HDC 24D KLU 1M32G	E.16
1787470000	HDC 16D TSLU 1M32G	E.12
1787480000	HDC 16D TSLU 1M25G	E.12
1787490000	HDC 16D TOLL 1M32G	E.12
1787500000	HDC 16D TOLL 1M25G	E.12
1787510000	HDC 16D SBU 2M32G	E.13
1787520000	HDC 16D SBU 2M25G	E.13
1787530000	HDC 16D SBU 2M25G	E.13
1787540000	HDC 16D SBU 2M25G	E.13
1787550000	HDC 10B TSBU 1M32G	H.14
1787560000	HDC 10B TSBU 1M20G	E.14
1787570000	HDC 10B TSBU 1M25G	E.17
1787580000	HDC 10B TSLU 1M25G	E.16
1787590000	HDC 10B TOBU 1M25G	H.14
1787600000	HDC 10B TOBU 1M20G	E.14
1787610000	HDC 10B TOBU 1M25G	E.17
1787620000	HDC 10B TOLL 1M32G	E.16
1787630000	HDC 10B SBU 2M25G	E.15
1787640000	HDC 10B SBU 2M20G	E.15
1787650000	HDC 10B SBU 2M25G	E.16
1787660000	HDC 10B SBU 2M20G	E.16
1787670000	HDC 10B SDB0 2M25G	E.17
1787680000	HDC 10B SDB0 2M20G	E.17
1787690000	HDC 10B SDBU 2M20G	E.16
1787700000	HDC 10B KBU 1M20G	E.15
1787710000	HDC 10B KLU 1M25G	E.16
1787720000	HDC 10B KLU 1M20G	E.16
1787730000	HDC 24B TSBU 1M32G	H.22
1787740000	HDC 24B TSBU 1M25G	E.26
1787750000	HDC 24B TSB0 1M32G	E.30
1787760000	HDC 24B TSB0 1M25G	E.30
1787770000	HDC 24B TSLU 1M32G	E.28
1787780000	HDC 24B TSLU 1M25G	E.28
1787790000	HDC 24B TOBU 1M32G	H.22
1787800000	HDC 24B TOBU 1M25G	E.26
1787810000	HDC 24B TOLL 1M32G	E.30
1787820000	HDC 24B TOLL 1M25G	E.30
1787830000	HDC 24B TOLL 1M32G	E.28
1787840000	HDC 24B TOLL 1M25G	E.28
1787850000	HDC 24B TOLL 1M32G	E.28
1787860000	HDC 24B TOLL 1M25G	E.28
1787870000	HDC 24B SBU 2M25G	E.27
1787880000	HDC 24B SBU 2M25G	E.29
1787890000	HDC 24B SBU 2M25G	E.29
1787900000	HDC 24B KBU 1M25G	E.27
1787910000	HDC 32A TSBU 1M32G	B.15
1787920000	HDC 32A TSBU 1M25G	B.15
1787930000	HDC 32A TSBU 1M32G	B.15
1787940000	HDC 32A TSBU 1M25G	B.15
1787950000	HDC 32A TSBU 1M32G	E.24
1787960000	HDC 32A TSBU 1M25G	B.15
1787970000	HDC 32A TSBU 1M32G	E.29
1787980000	HDC 32A TSBU 1M25G	B.15
1787990000	HDC 32A TSBU 1M32G	E.25
1788000000	HDC 32A TOBU 1M32G	B.15
1788010000	HDC 32A TOBU 1M32G	E.29
1788020000	HDC 32A TOBU 1M25G	B.15
1788030000	HDC 32A TOBU 1M25G	B.15
1788040000	HDC 32A TOBU 1M32G	E.25
1788050000	HDC 32A TOBU 1M25G	B.15
1788060000	HDC 32A SDB0 2M32G	E.25
1788070000	HDC 32A SDB0 2M25G	E.25
1788080000	HDC 32A SBU 1M32G	B.15
1788090000	HDC 32A SBU 1M25G	B.15
1788100000	HDC 32A SBU 1M32G	E.24
1788110000	HDC 32A SBU 1M25G	E.24
1788120000	HDC 06B TSLU 1M25G	B.21
1788130000	HDC 06B TSLU 1M25G	B.21
1788140000	HDC 06B TSLU 1M25G	B.19
1788150000	HDC 06B TSLU 1M25G	B.19
1788160000	HDC 06B TSLU 1M25G	B.19
1788170000	HDC 06B TSLU 1M25G	B.19
1788180000	HDC 06B TSLU 1M25G	B.19
1788190000	HDC 06B TSLU 1M25G	B.19
1788200000	HDC 06B TSLU 1M25G	B.19
1788210000	HDC 06B TSLU 1M25G	B.19
1788220000	HDC 06B TSLU 1M25G	B.19
1788230000	HDC 06B TSLU 1M25G	B.19
1788240000	HDC 06B TSLU 1M25G	B.19
1788250000	HDC 06B TSLU 1M25G	B.19
1788260000	HDC 06B TSLU 1M25G	B.19
1788270000	HDC 06B TSLU 1M25G	B.19
1788280000	HDC 06B TSLU 1M25G	B.19
1788290000	HDC 06B TSLU 1M25G	B.19
1788300000	HDC 48B TSLU 1M50G	B.31
1788310000	HDC 48B TSLU 1M50G	B.31
1788320000	HDC 48B TSLU 1M50G	B.31
1788330000	HDC 48B TSLU 1M50G	B.31
1788340000	HDC 48B TSLU 1M50G	B.31
1788350000	HDC 48B TSLU 1M50G	B.31
1788360000	HDC 48B TSLU 1M50G	B.31
1788370000	HDC 48B TSLU 1M50G	B.31
1788380000	HDC 48B TSLU 1M50G	B.31
1788390000	HDC 48B TSLU 1M50G	B.31
1788400000	HDC 48B TSLU 1M50G	B.31
1788410000	HDC 48B TSLU 1M50G	B.31
1788420000	HDC 48B TSLU 1M50G	B.31
1788430000	HDC 48B TSLU 1M50G	B.31
1788440000	HDC 48B TSLU 1M50G	B.31
1788450000	HDC 48B TSLU 1M50G	B.31
1788460000	HDC 48B TSLU 1M50G	B.31
1788470000	HDC 48B TSLU 1M50G	B.31
1788480000	HDC 48B TSLU 1M50G	B.31
1788490000	HDC 48B TSLU 1M50G	B.31
1788500000	HDC 48B TSLU 1M50G	B.31
1788510000	HDC 48B TSLU 1M50G	B.31
1788520000	HDC 48B TSLU 1M50G	B.31
1788530000	HDC 48B TSLU 1M50G	B.31
1788540000	HDC 48B TSLU 1M50G	B.31
1788550000	HDC 48B TSLU 1M50G	B.31
1788560000	HDC 48B TSLU 1M50G	B.31
1788570000	HDC 48B TSLU 1M50G	B.31
1788580000	HDC 48B TSLU 1M50G	B.31
1788590000	HDC 48B TSLU 1M50G	B.31
1788600000	HDC 48B TSLU 1M50G	B.31
1788610000	HDC 48B TSLU 1M50G	B.31
1788620000	HDC 48B TSLU 1M50G	B.31
1788630000	HDC 48B TSLU 1M50G	B.31
1788640000	HDC 48B TSLU 1M50G	B.31
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1788840000	HDC 48B TSLU 1M50G	B.31
1788850000	HDC 48B TSLU 1M50G	B.31

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1804650000	HDC 40D TSLU 1M40G	E.22
1804660000	HDC 40D SLU 2M32G	E.22
1806650000	IS 3 KG	J.16
1806660000	IS 4 KG	J.16
1809620000	HDC 16B TSBV 1M40G	E.20
1809630000	HDC 64D TSBV 1M40G	E.26

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1826770000	HDC HEE 46 MC	B.42
1826780000	HDC HEE 46 FC	B.42
1826790000	HDC HEE 32 MC	B.38
1826800000	HDC HEE 32 FC	B.38
1826800000	HDC HEE 32 FC	B.34
1826810000	HDC HEE 18 MC	B.36
1826820000	HDC HEE 18 FC	B.36
1826830000	HDC HEE 10 MC	B.34
1826840000	HDC HEE 10 FC	B.34
1827160000	HDC HB 24 TEK TSS1xM50G	F.9
1827170000	HDC HB 24 TEK TOS1xM50G	F.9
1827470000	HDC HB 24 TEK AS M4	F.9

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1855680000	HDC HB10 AWVL FD	L.23
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1860000000

1866710000	Removal Tool CM 3	I.5
1866710000	Removal Tool CM 3	J.17
1866730000	REMOVAL TOOL HD	I.4
1866730000	REMOVAL TOOL HD	I.9
1866730000	REMOVAL TOOL HD	J.17
1866750000	Removal Tool HE	I.4
1866750000	Removal Tool HE	J.17
1867360000	HDC SHIELD LEVER 8 SC	L.14
1867370000	HDC SHIELD LEVER 4 SC	L.14
1867380000	HDC SHIELD LEVER 6 SC	L.14
1867390000	HDC SHIELD LEVER 3 SC	L.14
1868550000	DAE M12 SS	K.24

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1873520000	HDC HE 6 FP	H.11
1873530000	HDC HE 6 MP	H.11
1873540000	HDC HE 10 FP	H.15
1873550000	HDC HE 10 MP	H.15
1873560000	HDC HE 16 FP	H.19
1873570000	HDC HE 16 MP	H.19
1873580000	HDC HE 24 FP	H.23
1873590000	HDC HE 24 MP	H.23
1873860000	HDC HA 10 FC	B.10
1873870000	HDC HA 10 MC	B.10
1873880000	HDC HA 16 FC	B.16
1873890000	HDC HA 16 MC	B.16
1875540000	HDC HA 16 FC 33 - 48	B.16
1875620000	HDC HA 16 MC 17 - 32	B.14
1875620000	HDC HA 16 MC 17 - 32	B.16
1875630000	HDC HA 16 MC 33 - 48	B.16
1875740000	HDC HE 16 FP 17-32	B.28
1875800000	HDC HE 16 MP 17-32	B.28
1875850000	HDC HE 24 FP 25-48	B.30
1875890000	HDC HE 24 MP 25-48	B.30
1876040000	HDC HA 16 FC 17 - 32	B.14
1876040000	HDC HA 16 FC 17 - 32	B.16

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1896780000	HDC HA 10 FT	B.10
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1896800000	HDC HA 16 FT	B.12
1896800000	HDC HA 16 FT	B.14
1896800000	HDC HA 16 FT	B.16
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1896810000	HDC HA 16 FT 17-32	B.16
1896820000	HDC HA 16 FT 33-48	B.16
1896830000	HDC HA 16 MT	B.12
1896830000	HDC HA 16 MT	B.14
1896830000	HDC HA 16 MT	B.16
1896840000	HDC HA 16 MT 17-32	B.14
1896840000	HDC HA 16 MT 17-32	B.16
1896850000	HDC HA 16 MT 33-48	B.16
1899800000	HDC 16B SBU 1M25G	E.21

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1900170000	HDC 16B SLU 1M25G	E.23
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1900320000	HDC 04A ELU 1M20G	B.97
1900320000	HDC 04A ELU 1M20G	B.99
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1900360000	HDC 06B SDBO 1M20G	E.13
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1900460000	HDC 06B SLU 1M20G	E.13

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1900990000	HDC 07A ELU 1PG13G	B.51
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1901160000	HDC 10A SLU 1M25G	E.11
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1901700000	HDC 10B AZU	E.18
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1902600000	HDC 32B SBU 1M32G	E.33
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1905000000	VG M16 - MS 1/EMV	K.11
1905100000	VG M20 - MS 1/EMV	K.11
1905200000	VG M25 - MS 1/EMV	K.11
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1905500000	VG M50 - MS 1/EMV	K.11
1905600000	VG M63 - MS 1/EMV	K.11
1905660000	VG M12/K67	K.4
1905670000	VG M16/K67 4-8	K.4
1905680000	VG M16/K67 5-10	K.4
1905690000	VG M20/K67 6-12	K.4
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1909710000	VG M25/K67	K.4
1909720000	VG M32/K67	K.4
1909730000	VG M40/K67	K.4
1909740000	VG M50/K67	K.4
1909750000	VG M63/K67	K.4
1909760000	VG P67/K67	K.4
1909770000	VG P69/K67	K.4
1909780000	VG P611/K67	K.4
1909790000	VG P613.5/K67	K.4
1909800000	VG P616/K67	K.4
1909810000	VG P621/K67	K.4
1909820000	VG P629/K67	K.4
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1909840000	VG P642/K67	K.4
1909850000	VG P648/K67	K.4
1909860000	VG M16-1/K68	K.5
1909870000	VG M25-1/K68	K.5
1909880000	VG M32-1/K68	K.5
1909890000	VG M40-1/K68	K.5
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1909920000	VG M25-1/MS68	K.7
1909930000	VG M32-1/MS68	K.7
1909940000	VG M40-1/MS68	K.7
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1912210000	HDC SHIELD CLAMP 6.0	I.18
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1912230000	HDC SHIELD CLAMP 8.0	I.18
1912240000	HDC SHIELD CLAMP 9.0	I.18
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1912440000	HDC HQ 5 MC	B.96
1912460000	HDC HQ 5 FC	B.96
1913320000	GWDR M12-NC	K.18
1919970000	HDC HQ 8 MC	B.102
1919980000	HDC HQ 8 FC	B.102

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1921720000	VG H M20 MS	K.10
1921740000	VG H M25 MS	K.10
1921760000	VG H M32 MS	K.10
1921770000	VG H M40 MS	K.10

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1962540000	IE-PH-V05M	G.2
1962720000	IE-PH-RJ45-TH	G.5
1962730000	IE-PH-RJ45-FH	G.4
1962840000	IE-BH-RJ45-C	G.7
1962850000	IE-BH-RJ45-FJA	G.6
1963110000	IE-PS-V05M-RJ45-TH	G.2
1963200000	IE-PS-V05M-RJ45-FH	G.2
1963460000	IE-BS-V05M-RJ45-FJA	G.3
1963510000	IE-BS-V05M-RJ45-C	G.3
1963530000	IE-BH-V05M	G.3
1963690000	HDC 04A DDDL 1LB	E.6
1963700000	IE-BS-V05M-RJ45-FJ-P	G.3
1963830000	IE-BH-RJ45-FJ-P	G.6
1963840000	IE-BH-RJ45-FJ-B	G.6
1966810000	IE-KO-HAT	J.2
1967210000	HDC HVE 10+2 MT C/H	B.86
1967220000	HDC HVE 3+2 FT C/H	B.82
1967230000	HDC HVE 3+2 MT C/H	B.82
1967240000	HDC HVE 6+2 FT C/H	B.84
1967250000	HDC HVE 6+2 MT C/H	B.84
1967260000	HDC HVE 10+2 FT C/H	B.86
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1967910000	HDC 24B ABO	E.30
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1968920000	IE-PP-V05M	G.2
1968930000	IE-PP-V05M	G.3

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1983470000	HDC 64D TOLL 1M40G	E.28
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1983510000	HDC 48B SDBO 2M50G	E.36
1987450000	HDC FLDG 04A IP68	I.23
1987460000	HDC DG 04A IP68	I.23
1987470000	HDC FLDG 04A AW IP68	I.23
1987480000	HDC FLDG 06B IP68	I.23
1987490000	HDC DG 06B IP68	I.23
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1987520000	HDC FLDG 16B IP68	I.23
1987530000	HDC DG 16B IP68	I.23
1987540000	HDC FLDG 24B IP68	I.23
1987550000	HDC FLDG 24B XXL IP68	I.23
1987920000	HDC HP 550 SSM SET	D.13
1987950000	HDC HP 550 SFF SET	D.13
1989290000	HDC MBUS 2 MCLIP	C.17
1989300000	HDC MBUS 2 PCLIP	C.17

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1993540000	IE-PH-AD-V05M-RJ45	G.2
1993810000	HDC HQ 12 MC	B.100
1993820000	HDC HQ 12 FC	B.100
1994540000	ES EPG 45 HEX 150	J.7

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2003820100	HDC XX6A01 MOXXXXX-0100	C.21
2003850100	HDC XX6A01 FDXXXXX-0100	C.21
2003890100	HDC XX6E01 MOXXXXX-0100	C.20
2003920100	HDC XX6E01 FDXXXXX-0100	C.20
2008210000	HDC HP 250 SSM BO SET	D.7
2008220000	HDC HP 250 SFF BO SET	D.7

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2088980000	HDC 07A ALU BLK	E.5
2089000000	HDC 07A TOLL 1M20G BLK	E.4

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2430170000	HDC IP68 04A AWS 1M25	F.4
2435070000	VG M12 EMV-4 MS 3-6.5	K.12

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9020900000	EINSATZ MTR 160 10HEX	J.5
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9020920000	EINSATZ MTR 160 25HEX	J.5
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9020990000	EINSATZ MTR 160 185HEX	J.5
9021000000	EINSATZ MTR 160 240HEX	J.5
9021390000	MTR 300	J.4
9021420000	TRAGEKASTEN MTR 300	J.4
9021430000	EINSATZP.HEX10QMM	J.5
9021440000	EINSATZP.HEX16QMM	J.5
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9021460000	EINSATZP.HEX35QMM	J.5
9021470000	EINSATZP.HEX50QMM	J.5
9021480000	EINSATZP.HEX70QMM	J.5
9022290000	EINSATZP.HEX95QMM	J.5
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9022310000	EINSATZP.HEX150QMM	J.5
9022320000	EINSATZP.HEX185QMM	J.5
9022330000	EINSATZP.HEX240QMM	J.5
9022340000	EINSATZP.HEX300QMM	J.5

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9037160000	SDS 0.4X2.0X60	J.12
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9202510000	WK 1/4 C6,3 E6,3	J.10
9202800000	TT 8 RS MP 8	G.5
9204820000	KOK-62X36	J.2
9204830000	KOK-65X36	J.2
9204850000	KOK-86X36	J.2
9205000000	KOHS 9.5+19	J.2
9205010000	KOHS 19	J.2
9205020000	KOPD 10.0	J.2
9205320000	IE-CT-SC-GOF	J.8
9205330000	IE-CT-LC-GDF	J.8
9205340000	IE-CT-SC-PDF	J.8
9205350000	IE-CT-SC-GOF-P	J.8
9205430000	CTIN CM 1.6/2.5	I.4
9205430000	CTIN CM 1.6/2.5	I.4
9205430000	CTIN CM 1.6/2.5	I.5
9205430000	CTIN CM 1.6/2.5	I.5
9205430000	CTIN CM 1.6/2.5	J.3
9205440000	CTIN CM 3.6	I.5
9205440000	CTIN CM 3.6	J.3
9205560000	SD Set S2.0-5.5	J.13

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9457300000	ABD-1-Stahlblech	I.22
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9910000000

9918370000	DMS MANUELL 0,5-1,7	J.10
9918380000	DMS MANUELL 2,0-8,0	J.10
9918390000	DMSI MANUELL 0,5-1,7	J.11
9918400000	DMSI MANUELL 2,0-8,0	J.11
9918410000	WK SI 0,4x2,5	J.11
9918420000	WK SI 0,5x3,0	J.11
9918430000	WK SI 0,6x3,5	J.11
9918440000	WK SI 0,8x4,0	J.11
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9918590000	WK K PH2	J.10
9918600000	WK K PZ0	J.10
9918610000	WK K PZ1	J.10
9918620000	WK K PZ2	J.10

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