



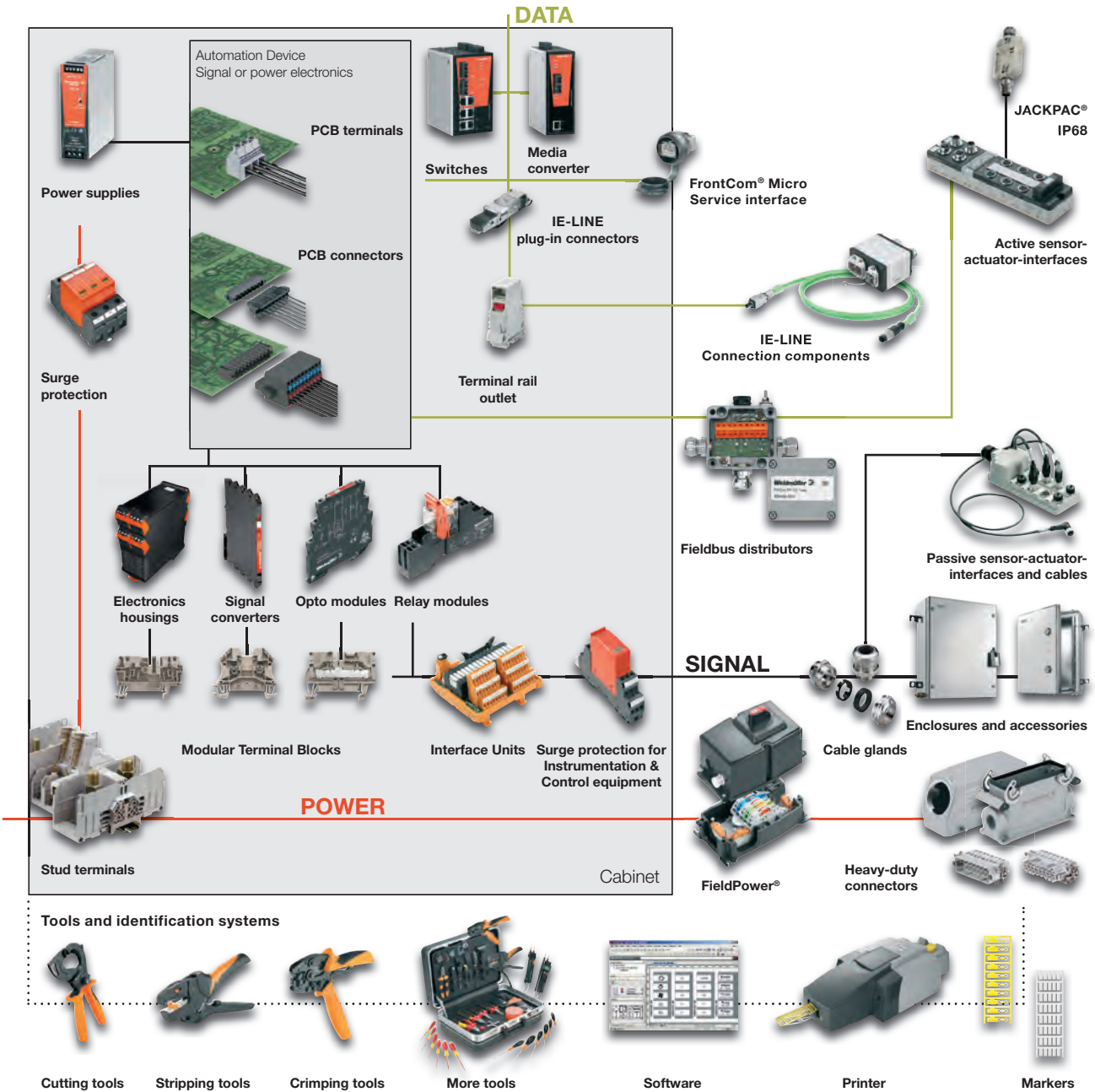
RockStar® – Heavy Duty Connectors

Catalogue

Product Portfolio

Weidmüller is a leading international provider of solutions for electrical connectivity, transmission and conditioning of power, signal and data in industrial environments. The company with headquarters in Detmold/Germany develops, produces and sells products in the field of electrical connectivity and electronics worldwide.

www.power-signal-data.com



All the catalogues at a glance

Catalog	Description	Order No.
Catalog 1	Modular Terminal Blocks	566140000
Catalog 2	PCB Terminals, PCB Connectors and Housings for Electronics	125003000
Catalog 3	RockStar® – Heavy Duty Connectors	566424000
Catalog 4.1	Electronics – Analogue Signal Conditioning	120351000
Catalog 4.2	Electronics – Relays and Optos	128233000
Catalog 4.3	Electronics – Power Supplies	128239000
Catalog 4.4	Electronics – Surge protection	127129000

Catalog	Description	Order No.
Catalog 4.5	Electronics – Interface units and PLC solutions	125208000
Catalog 5	Enclosures and Cable Glands	127452000
Catalog 6	Tools	116152000
Catalog 7	Identification systems	112559000
Catalog 8	Sensor Actuator Interface	123562000
Catalog 9	Industrial Ethernet	127457000
Product information	FieldPower® – decentralised power distribution	122986000

RockStar® – Heavy Duty Connectors

Overview HDC

A

RockStar® inserts

B

RockStar® HighPower

C

RockStar® ConCept modular system

D

RockStar® Housings IP66 / NEMA Type 4X

E

RockStar® Housings IP68

F

RockStar® Heat Trace Connector

G

RockStar® Data Connectors

H

RockStar® Kits

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RockStar® accessories

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Tools

K

Cable entries

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Identification systems

M

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RockStar® – Heavy Duty Connectors

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RockStar® – Heavy Duty Connectors

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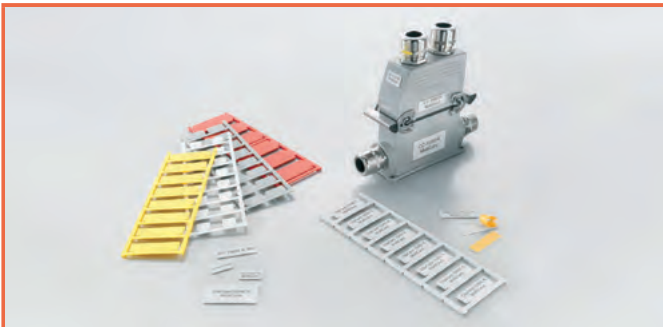
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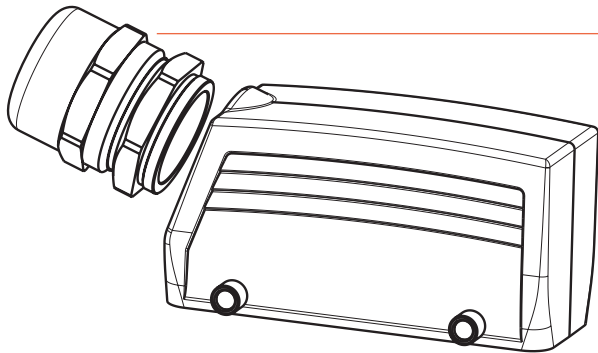
RockStar® individual services Page V.2



Overview HDC

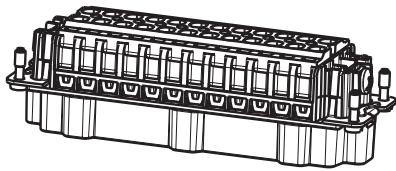
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Construction of heavy-duty connectors – fixed pole

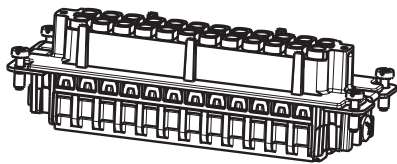


Cable gland

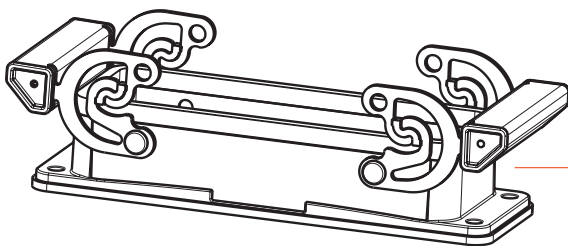
Hood



Male insert

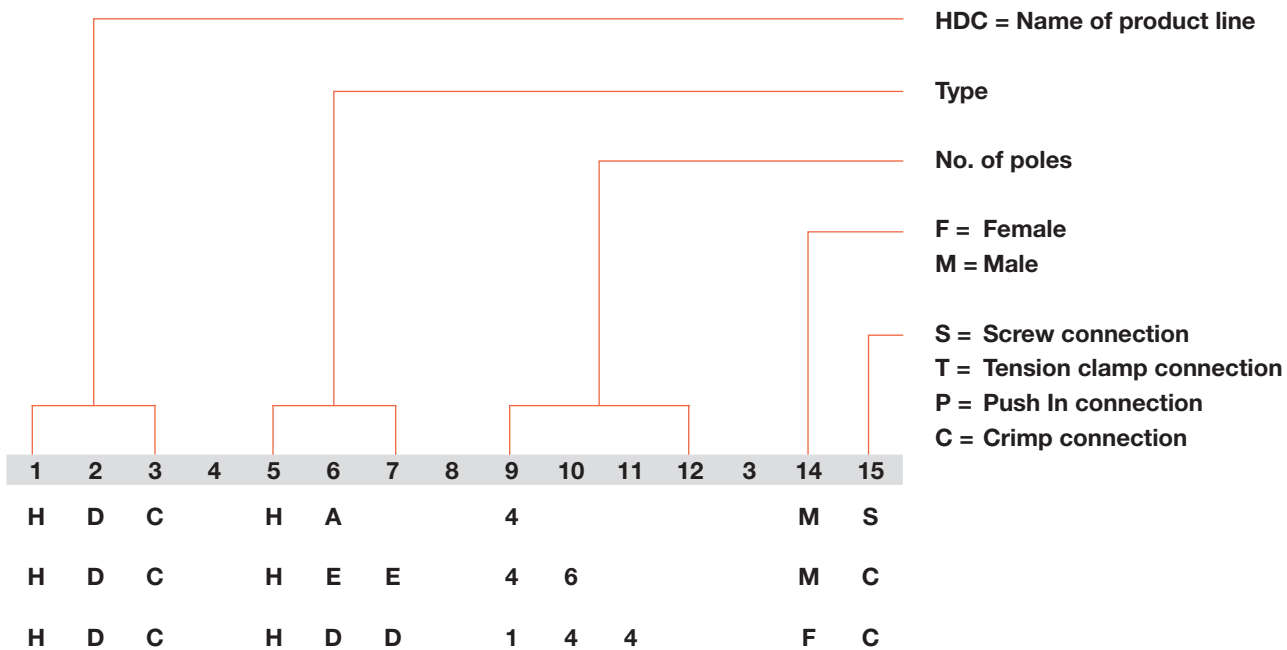


Female insert



Bulkhead housing

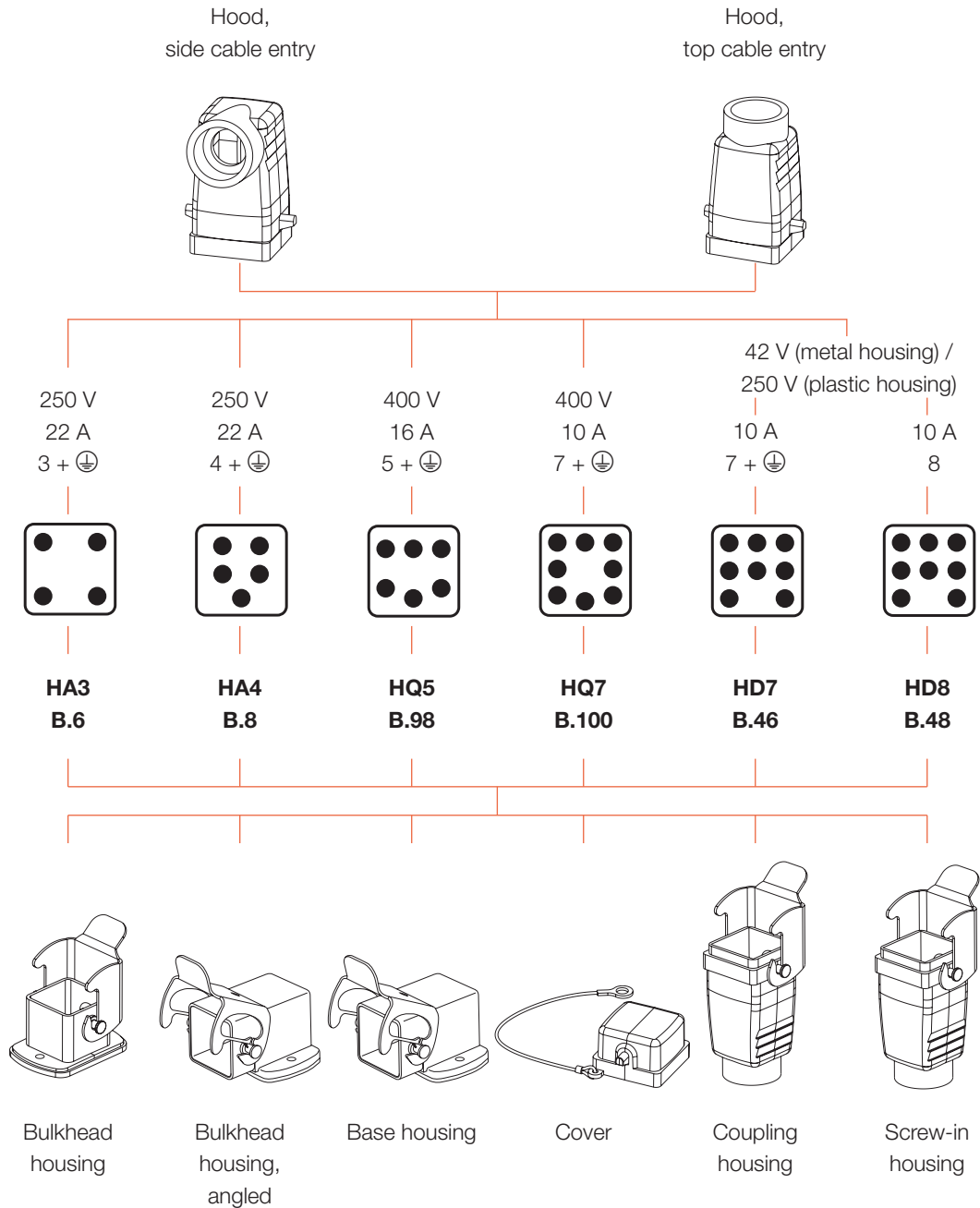
Part codes for inserts



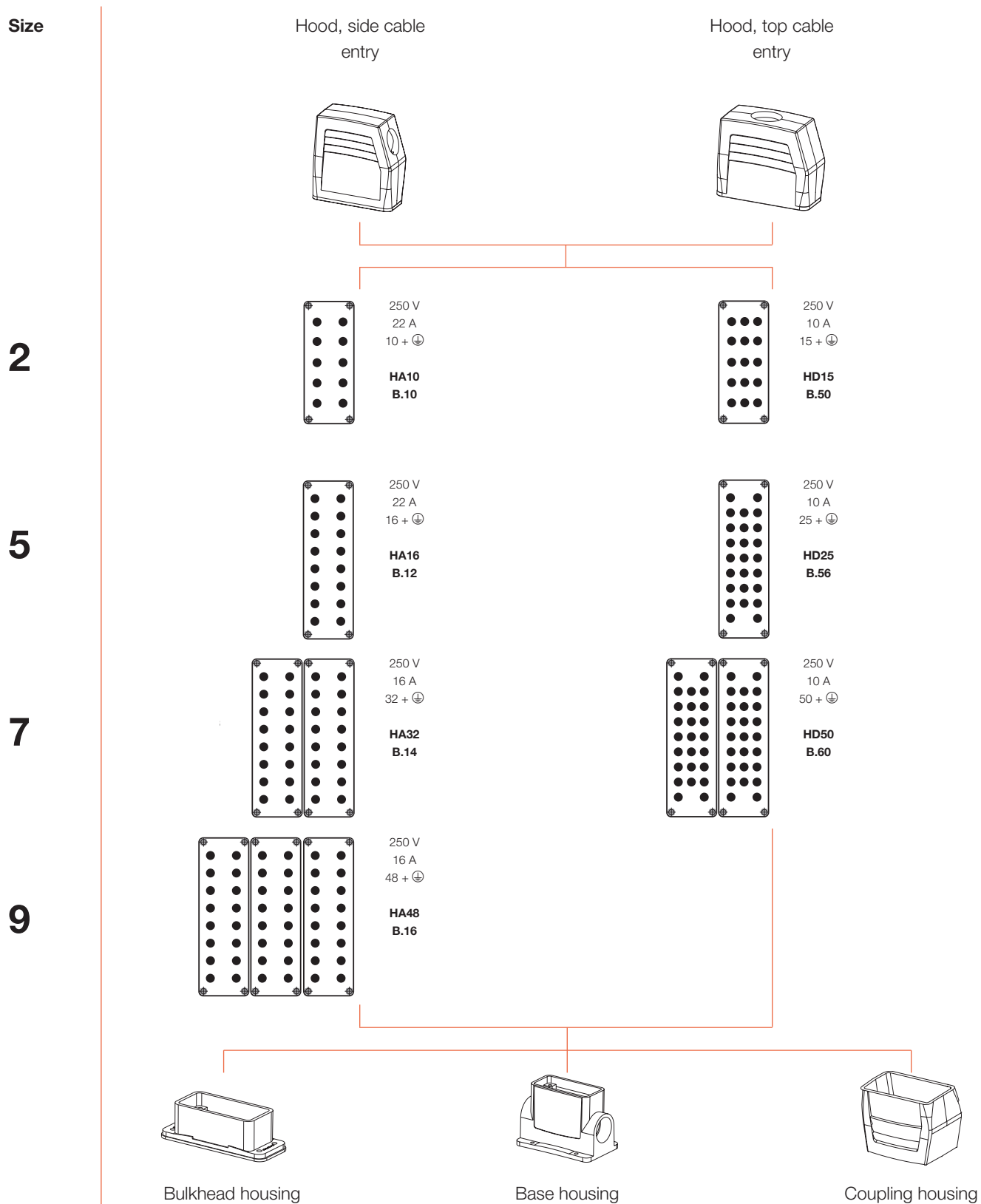
Overview of size 1 – fixed pole

Size

1



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



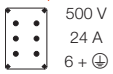
Overview of sizes 3, 4, 6, 8, 10, 12 – fixed pole

Size

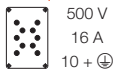
Hood, side cable entry

Hood, top cable entry

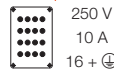
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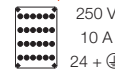
HE6
B.20



HEE10
B.34

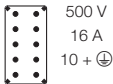


HD16
B.52

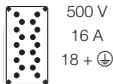


HDD24
B.70

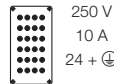
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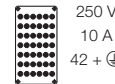
HE10
B.22



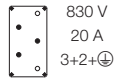
HEE18
B.36



HD24
B.54

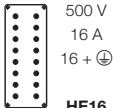


HDD42
B.72

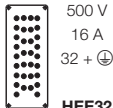


HVE3
B.84

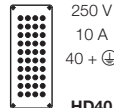
6



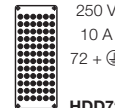
HE16
B.24



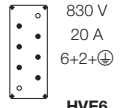
HEE32
B.38



HD40
B.58

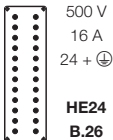


HDD72
B.74

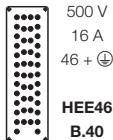


HVE6
B.86

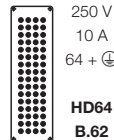
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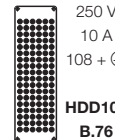
HE24
B.26



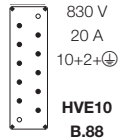
HEE46
B.40



HD64
B.62

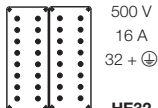


HDD108
B.76

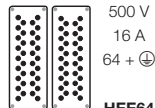


HVE10
B.88

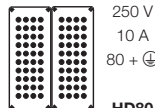
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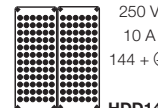
HE32
B.28



HEE64
B.42

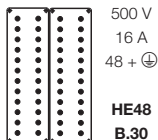


HD80
B.64

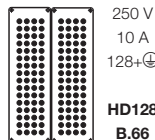


HDD144
B.78

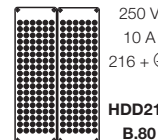
12



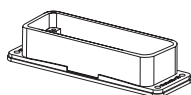
HE48
B.30



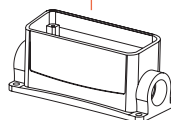
HD128
B.66



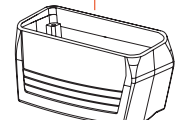
HDD216
B.80



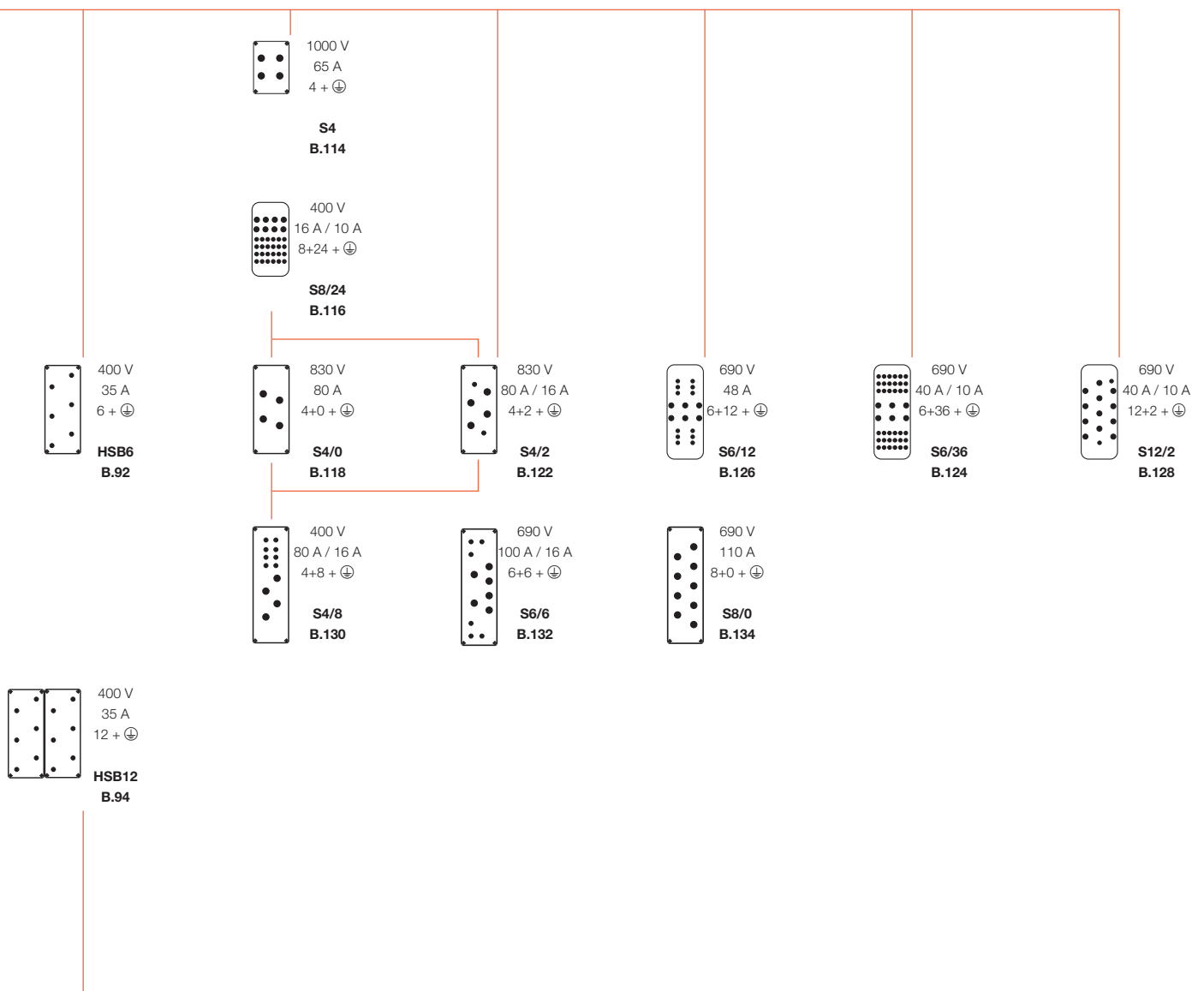
Bulkhead housing



Base housing



Coupling housing

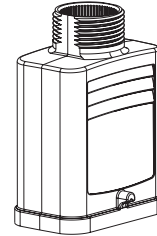
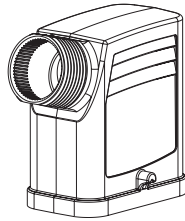


Overview of size HQ – fixed-pole

Size

Hood, side cable entry

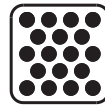
Hood, top cable entry



500 V
16 A
8 + ⊕

250 V
10 A
17 + ⊕

630 V
40 A
4+2 + ⊕

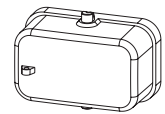
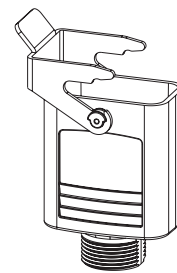
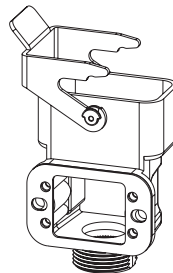
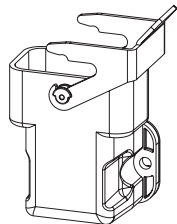
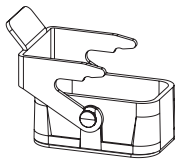


HQ8
B.102

HQ17
B.104

HQ4/2
B.106

HQ



Bulkhead housing

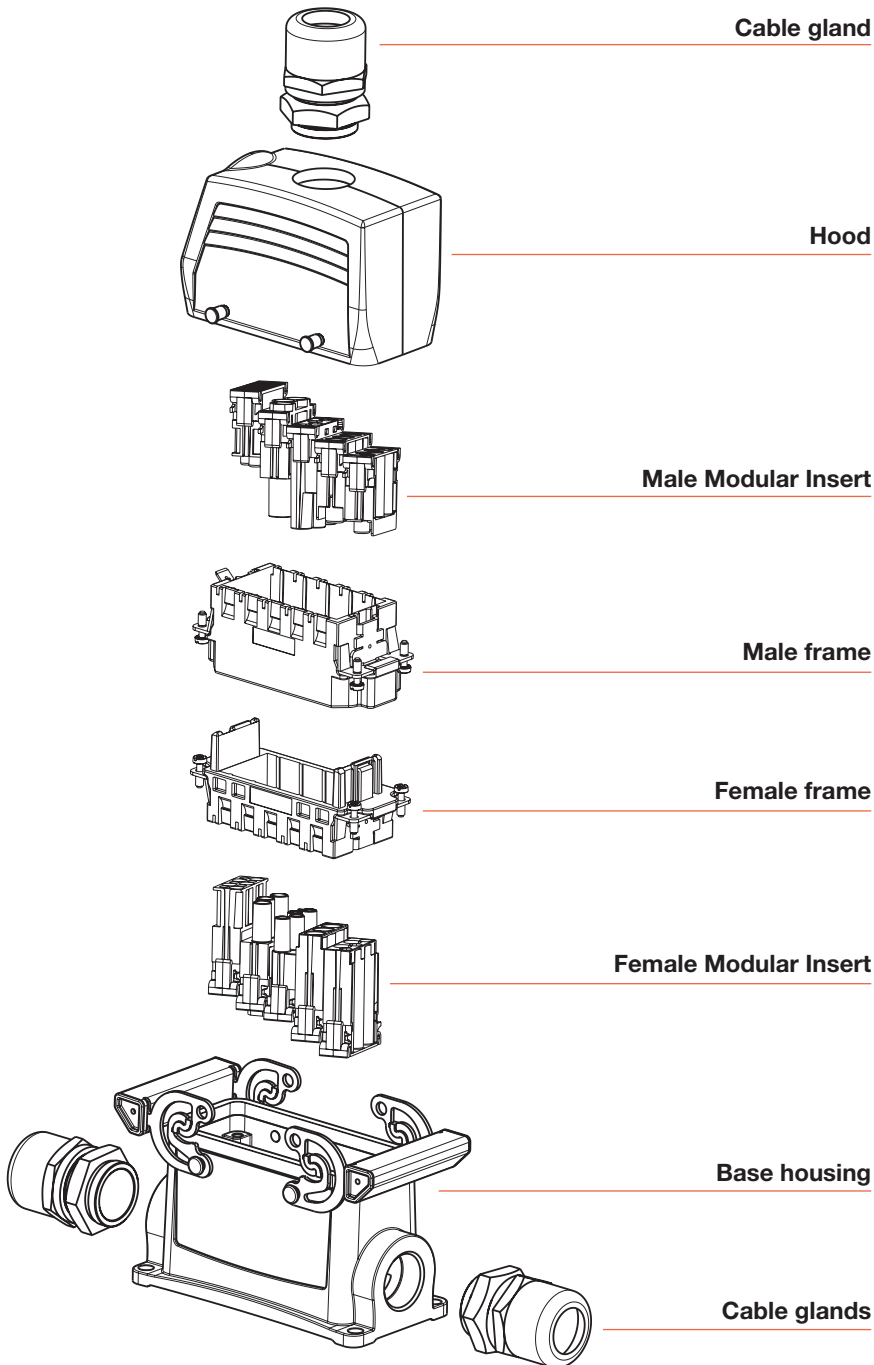
Bulkhead housing,
angled

Base housing

Coupling housing

Cover

Construction of heavy-duty connectors – modular

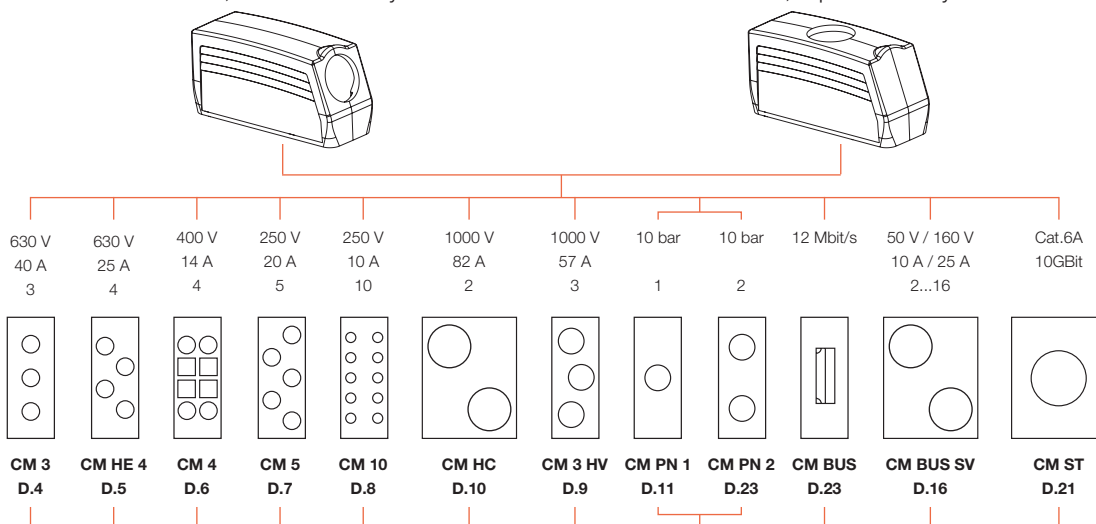


Overview of sizes 3, 4, 6, 8, 10, 12 – modular

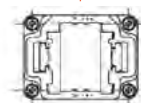
Size

Hood, side cable entry

Hood, top cable entry

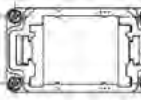


3



CR6/CFM6 for 2 modules
D.24/D.26

4



CR10/CFM10 for 3 modules
D.28/D.30

6



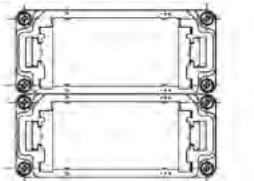
CR16/CFM16 for 5 modules
D.32/D.34

8



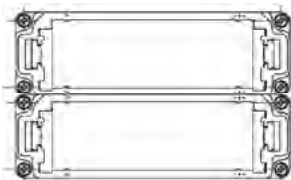
CR24/CFM24 for 7 modules
D.36/D.38

10

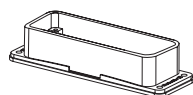


2 x CR16/CFM16 for 10 modules
D.40/D.34

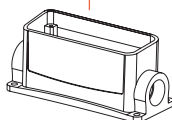
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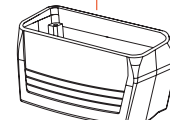
2 x CR24/CFM24 for 14 modules
D.42/D.38



Bulkhead housing



Base housing



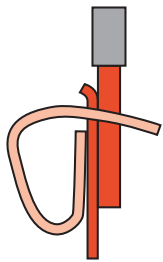
Coupling housing

Connection systems

A

Weidmüller offers RockStar® connectors with five different connection systems:

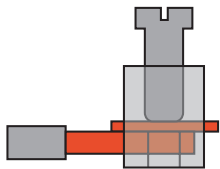
Tension clamp, screw, crimp, axial screw and PUSH IN wire connections



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

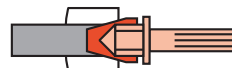
Screw connection systems are easy to handle and are known worldwide; this is an important point to consider for mounting and maintenance tasks which are spread throughout the

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.



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.



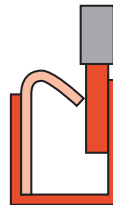
The advantage of the **axial screw connection** is the small space taken up by the contact. The axial screw connection is also extremely easy to

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.

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

Products	Tension clamp connection	PUSH IN connection	Axial screw connection	Screw connection	Screw connection with wire protection mechanism	Crimp connection
HDC HA (3-4 pole)				✓		
HDC HA (10-48 pole)	✓				✓	✓
HDC HE	✓	✓			✓	✓
HDC HEE						✓
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

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.

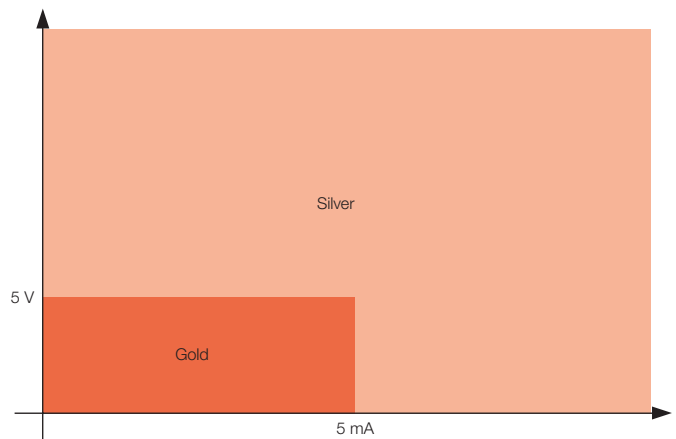
Crimp contacts are available in turned, solid form.

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: Cross-section:	10 A 0.14-2.50 mm ² AWG: 26...14	HD Series HDD Series CM 10
		Surface finish:	gold-plated silver-plated	CM BUS SV
	HE-, HEE contacts	Rated current: Cross-section:	16 A 0.5-4.00 mm ² AWG: 20...12	HA Series HE Series HEE Series
		Surface finish:	gold-plated silver-plated	HQ - Series MixMate Series CM HE 4 CM BUS SV
	CM-5 contacts	Rated current: Cross-section:	20 A 0.75-4.00 mm ² AWG: 20...12	CM 5
		Surface finish:	silver-plated	
	HX contacts	Rated current: Cross-section:	40 A 1.5-6.00 mm ² AWG: 16...10	HQ Series MixMate Series
		Surface finish:	silver-plated	
	CM-3 contacts	Rated current: Cross-section:	57 A 1.5-10.00 mm ² AWG: 16...7	CM 3 CM 3 HV
		Surface finish:	silver-plated	
	HP contacts	Rated current: Cross-section:	250 A / 550 A 25-240 mm ²	HighPower Series
		Surface finish:	silver-plated	

Using wire-end ferrules

A

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⁾	–
		H0.5/16 – H2.5/16	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)	–	–	H0.75/17 (ZH)
Tension clamp	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)}	–	–
Crimp 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	–	
Tightening torque	0.5 Nm	0.5 Nm	0.5 Nm	–	
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	–
–		–	500 V / 6 kV / 3 only with protection degree of at least IP54	–	
–		H1.5/20 ZH	400 V / 6 kV / 3	–	
Ferrules crimped with	–	–	500 V / 6 kV / 3 only with protection degree of at least IP54	–	
	–	PZ4, PZ6, PZ6/5, PZ6 Hex	–	–	
PE contact	Clamping range [mm ²]	0.5 – 4.0	0.5 – 4	0.5 – 4	–
		0.5 – 2.5 flexible		–	–
	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 ³⁾ , PZ6, PZ6/5	PZ4, PZ6, PZ6/5, PZ6 Hex	PZ4, PZ6, PZ6/5, PZ6 Hex	–
			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
M 2.5	Signal contacts		
	S 6/6	0.5 - 0.55	SD 0.6 x 3.5 mm or PZ0
	S 6/12	0.5 - 0.55	SD 0.6 x 3.5 mm or PZ0
M 2.9 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
M 3	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 bis 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 PZ0
	HVE	0.5 - 0.55	SD 0.6 x 3.5 mm or PZ0
	Signal contacts:		
	S 4/2	0.5 - 0.55	SD 0.6 x 3.5 mm or PZ0
	S 4/8	0.5 - 0.55	SD 0.6 x 3.5 mm or PZ0
	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 PZ0
	Guide pin	0.5 - 0.55	SD 0.6 x 3.5 mm or PZ0
	Guide bush	0.5 - 0.55	SD 0.6 x 3.5 mm or PZ0
	Coding pins	0.5 - 0.55	SD 0.6 x 3.5 mm or PZ0
	M 4	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
M 5		PE terminal	
	HSB	2 - 2.5	SD 1 x 5.5 mm or PZ2
	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 PZ 2
	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 PZ 2
	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
	M 6	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
M 7 x 0.75	Power contacts		
	S 4	1.1 - 1.7	SW 2
M 8 x 0.75	Power contacts		
	S 6/6 (+ PE)	6 - 8	SW 4
M10 x 1	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 IP66 / 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 IP66 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
- Fairground rides
- Process engineering

Features:

- Tightness at least IP66 to IEC 60529
- Tightness NEMA Type 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 of rustproof stainless steel

HQ Series Housings, IP66 / NEMA Type 4X



The HQ connector series has a very compact housing with IP66 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

Features:

- Tightness: at least IP66, acc. to IEC 60529
- Tightness: NEMA Type 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 highest degree of sealing



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:

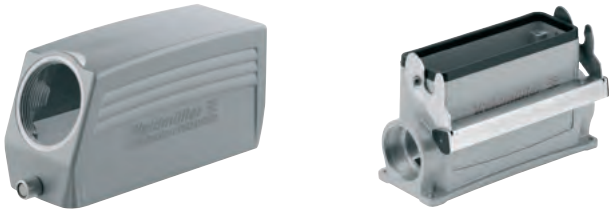
- Cast aluminium alloy
- Multistage surface coating
- Optimised construction for high impact resistance and EMC
- Colour: black RAL 9005
- 5 sizes; size 8 also in XXL

Interlock system

- Screw cap with internal/external hex drive

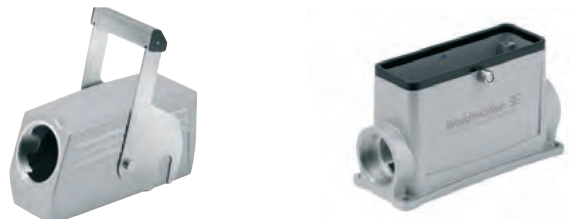
Locking systems

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



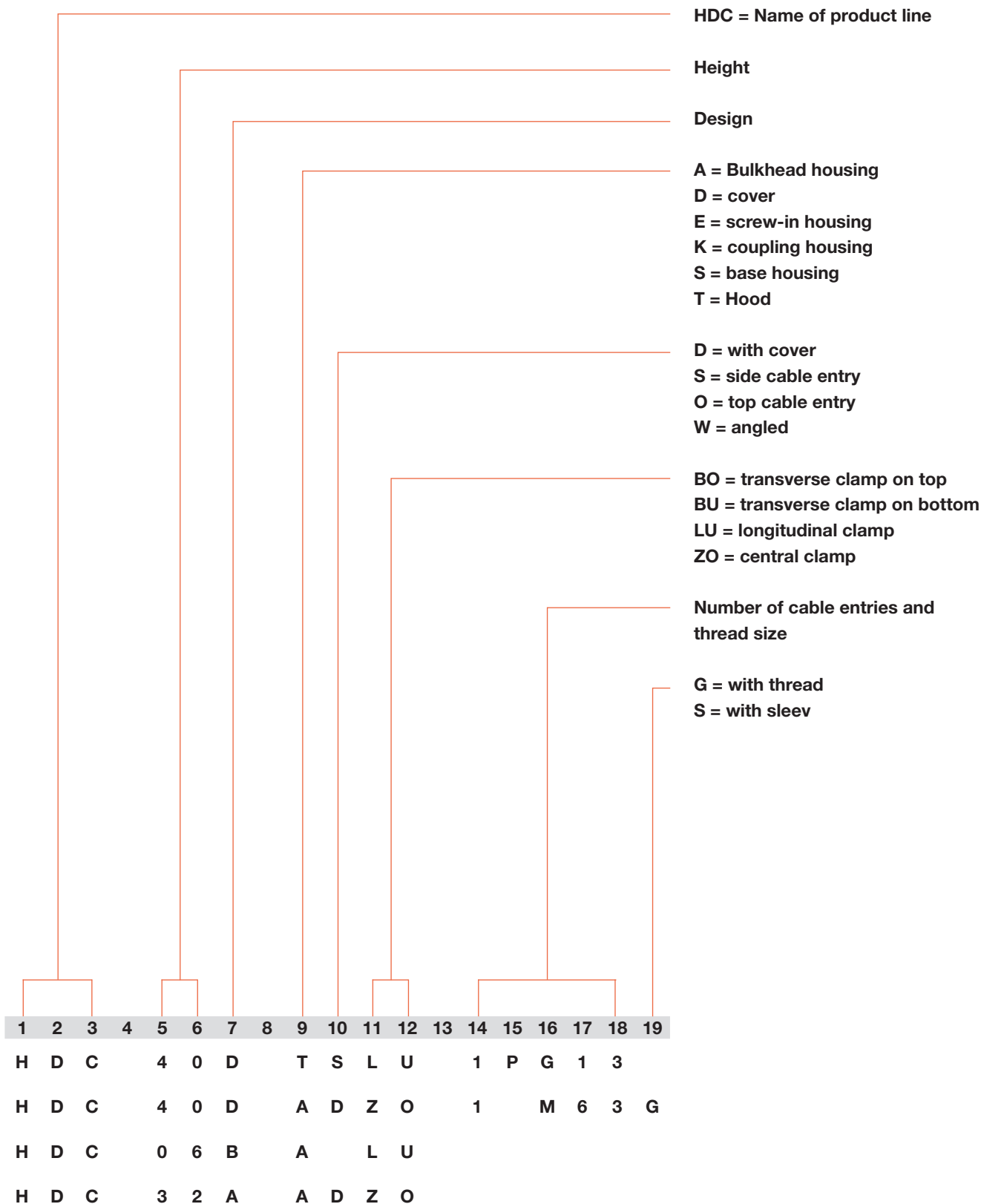
- Uses internal/external hex drive
- Most effective seal
- The two interlock points are arranged diagonally
- Easily accessible when space is tight
- Screws made from rust-free stainless steel

Two transverse locking clamps on housing top



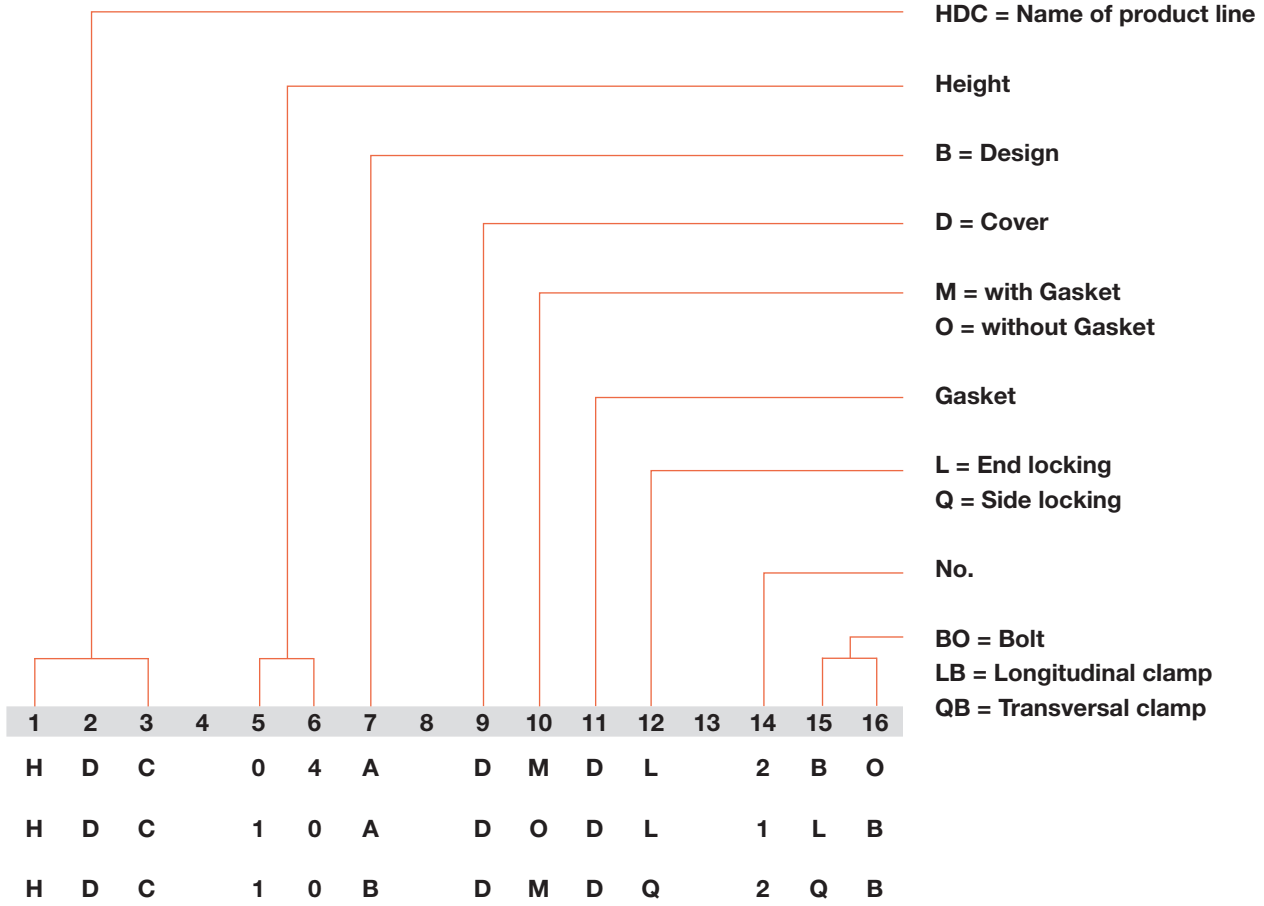
- Manual operation – no tools required
- 4 locking points – good sealing effect
- Easily accessible when the cable inlet is in the plugging direction
- Good for aligning side by side
- Interlock system made from rust-free stainless steel

Part codes for housings IP66

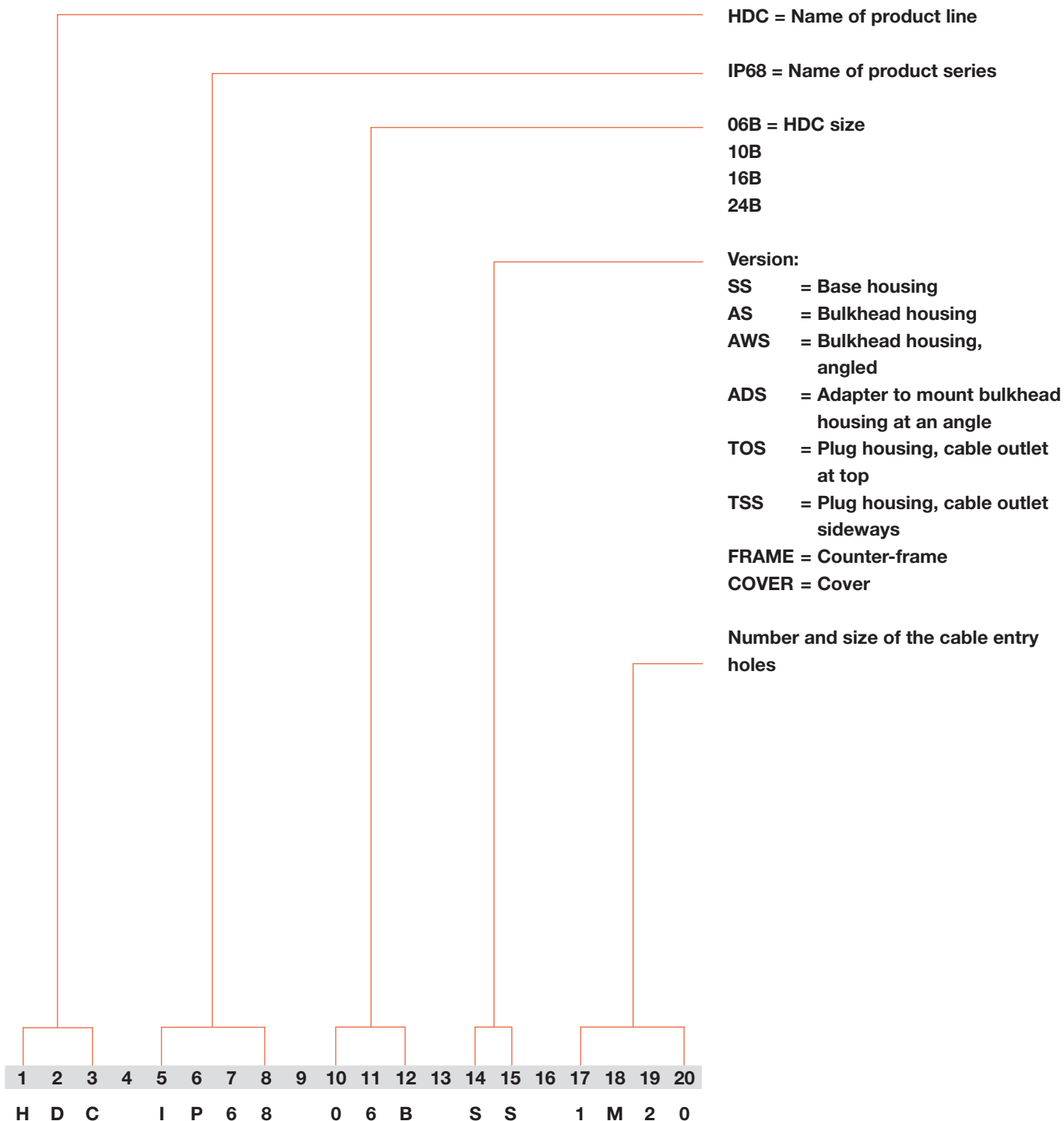


Part codes for covers

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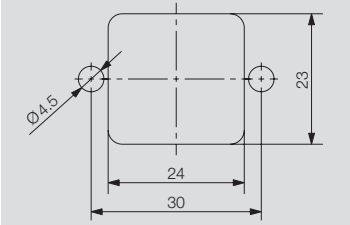
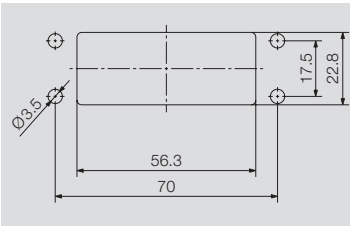
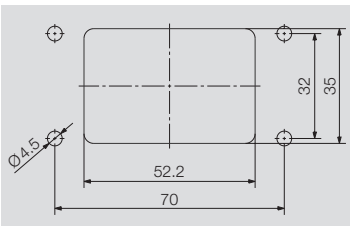
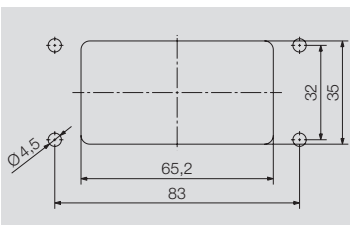
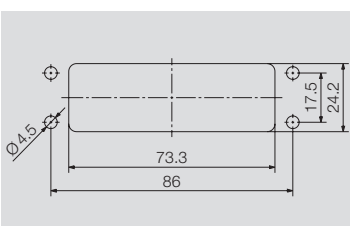
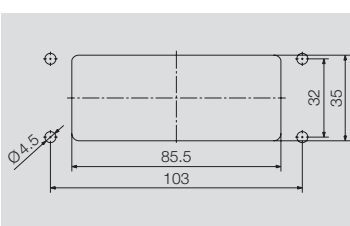


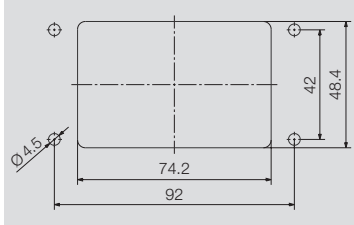
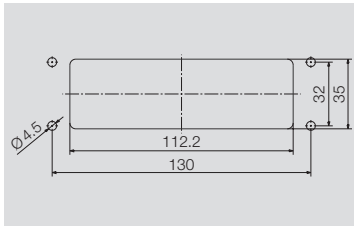
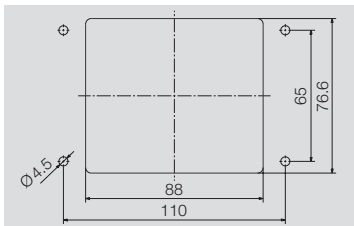
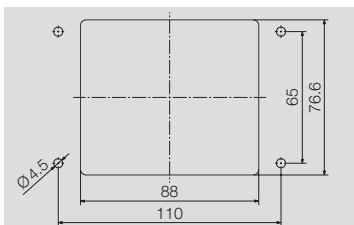
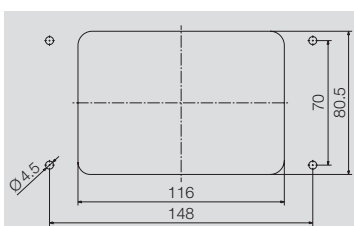
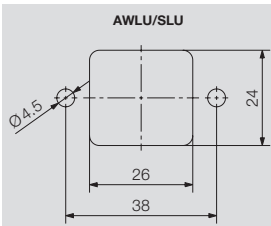
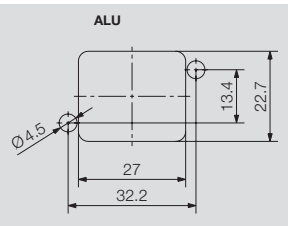
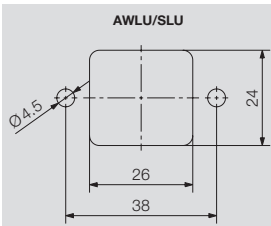
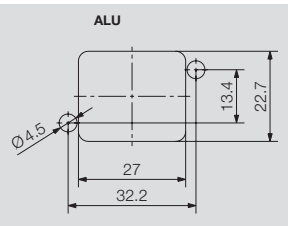
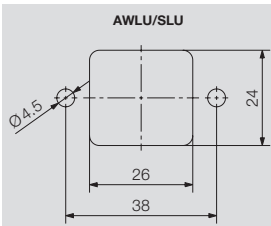
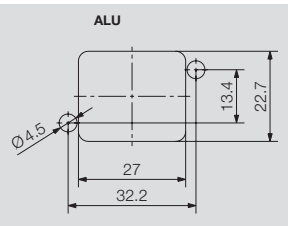
Part codes for housings IP68



Panel cut-out Housings IP66

A

Size	Designation	
BG1	04A/07A	
BG2	10A	
BG3	06B	
BG4	10B	
BG5	16A	
BG6	16B	

Size	Designation							
BG7	32A							
BG8	24B							
BG9	48A							
BG10	32B							
BG12	48B							
HQ		<table border="0"> <tr> <td></td> <td style="text-align: center;">AWLU/SLU</td> <td style="text-align: center;">ALU</td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table>		AWLU/SLU	ALU			
	AWLU/SLU	ALU						
								

Panel cut-out Housings IP68

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

Housings IP68 XXL

Size	Designation	
BG8	HB24	

Electrical data

A

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.

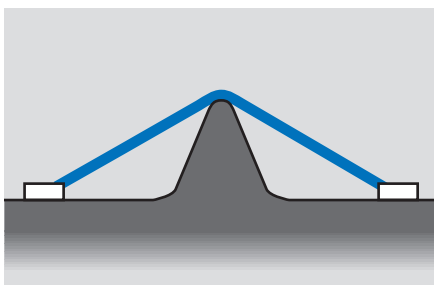
The design data resulting from these provisions is – if applicable – specified in this catalogue for each product.

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:

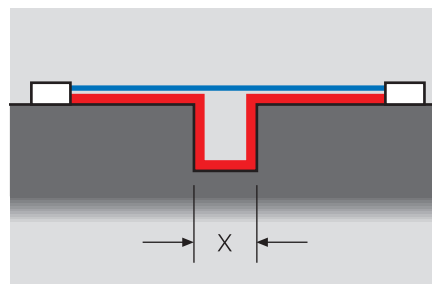
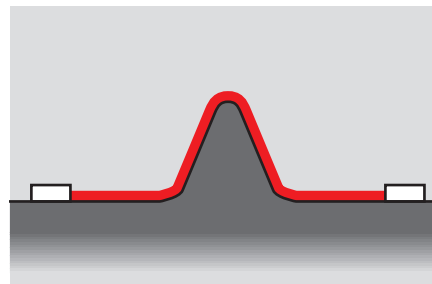
- Anticipated surge
rated impulse withstand voltage
- Used
surge protection precaution
- Measures to prevent pollution
pollution severity



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 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 insulation	
	all Systems [V]	3-phase 4-conductor systems with earthed neutral cond. [V]	3-phase 4-conductor systems un-earthed 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	320	500
500			
575	630	400	630
600	630	–	630
660			
690	630	400	630
720			
830	800	500	800
960	1000	630	1000
1000	1000	–	1000

Electrical data

A

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

Rated voltage

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

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

Rated voltage of the power supply (mains) *)	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	1000	500
1000**)	1000	–

3-phase 3- or 4-wire AC systems

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

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

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

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

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

Insulating material

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

Insulating material

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

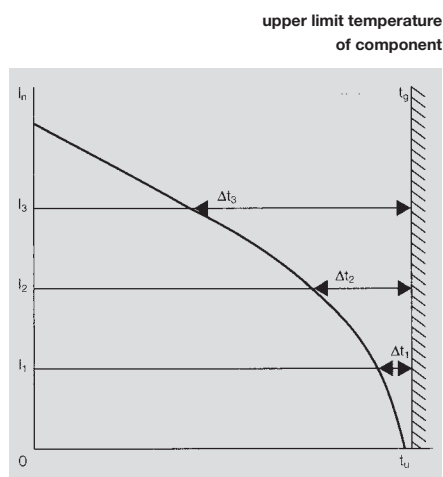
The comparative tracking index must be determined according to DIN IEC 112/VDE 0303 part 1 on the basis of specially prepared samples with test solution A

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

The **upper limit temperature** of a component is the rated value determined by the materials used. The total of the ambient temperature plus the temperature rise caused by the current load (power loss at contact resistance) may not exceed the upper limit temperature of the component, otherwise it will be damaged or even completely ruined. The current-carrying capacity is hence not a constant value, but rather 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 60512-3. To do this, the resulting component temperatures t_{b1} , t_{b2} ... and the ambient temperatures t_{u1} , t_{u2} are measured for three different currents I_1 , I_2 , I_3 The values are entered on a graph with a system of linear coordinates to illustrate the relationships between the currents, the ambient temperatures and the temperature rise in the component.

Base curve

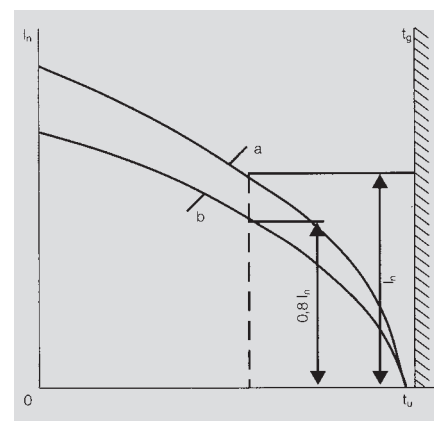


t_g = upper limit temperature of component
 t_u = ambient temperature
 I_n = current

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% results in the **“derating curve”** in which

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)

the maximum permissible contact resistances and the measuring uncertainties in the temperature measurements are taken into account in such a way that they are suitable for practical applications, as experience has shown. If the derating curve exceeds the currents in the low ambient temperature zone, which is given by the current-carrying capacity of the conductor cross-sections to be connected, then the derating curve should be limited to the smaller current in this zone.

EMC

A

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).

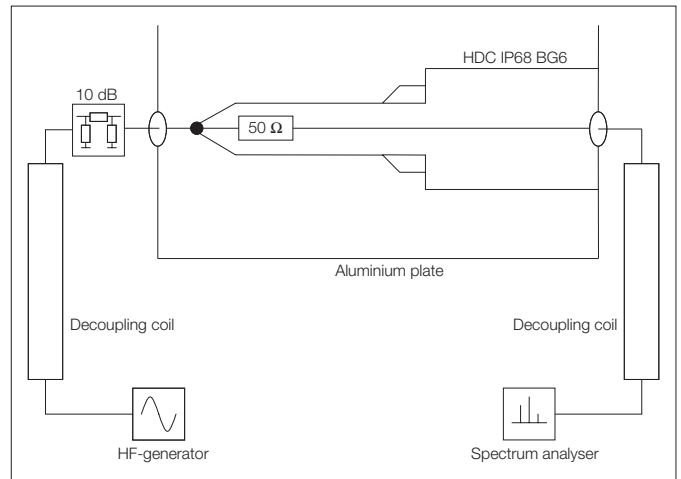
The basics

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

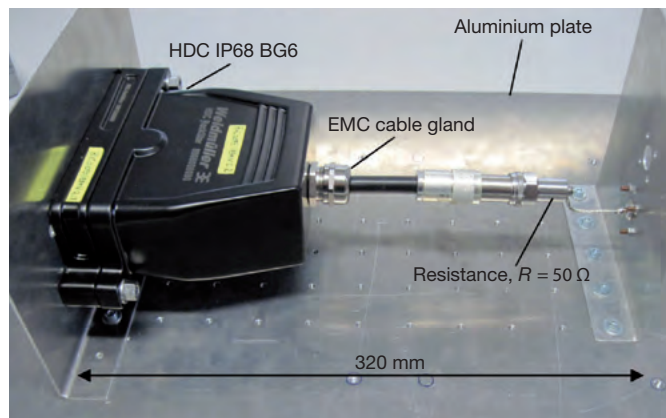


According to VG 95373-41, a frequency range up to 30 MHz is specified for the measurement process. However the range can be extended to about 100 MHz for information purposes. The insertion loss a_s of the test object is determined by the relationship between the voltage on the interior wire and the supplied voltage. The VG95373-41 also refers to the insertion loss as the shield attenuation factor. The relationship between insertion loss a_s and coupling resistance Z_k is characterised as follows:

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

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

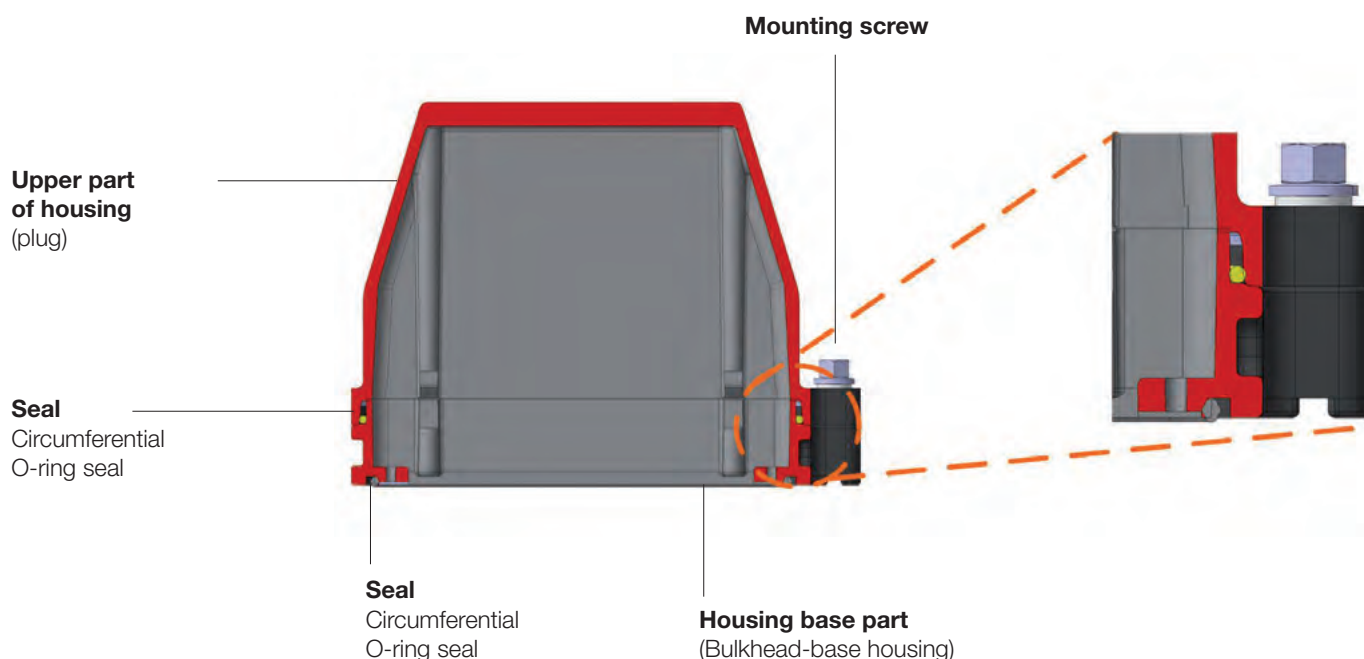
In order to test plug-in connectors, a reference shield cable is used that is separated in the middle. The cable can be connected with a corresponding connector pair and measured as described above. In order to evaluate the shield (the resistance between the cable shield and the reference earth), the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

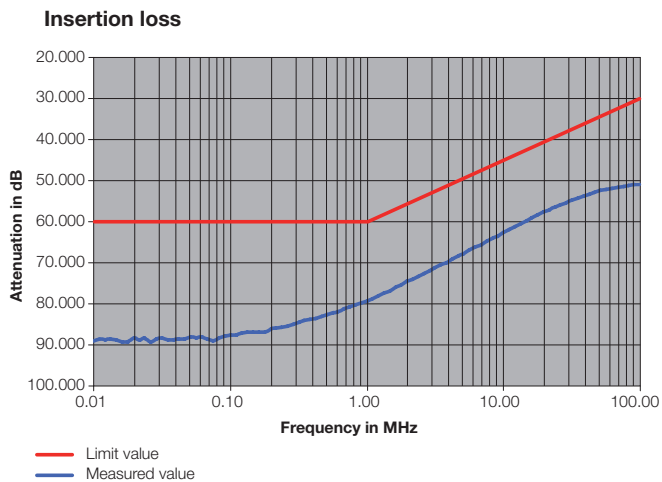
The bulkhead or base housing, combined with the plug housing, produces a labyrinth structure which ensures high EMC shield attenuation. In addition to providing the required EMC protection, this housing series features IP68/IP69K protection and excellent resistance to impacts and vibration. This combination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



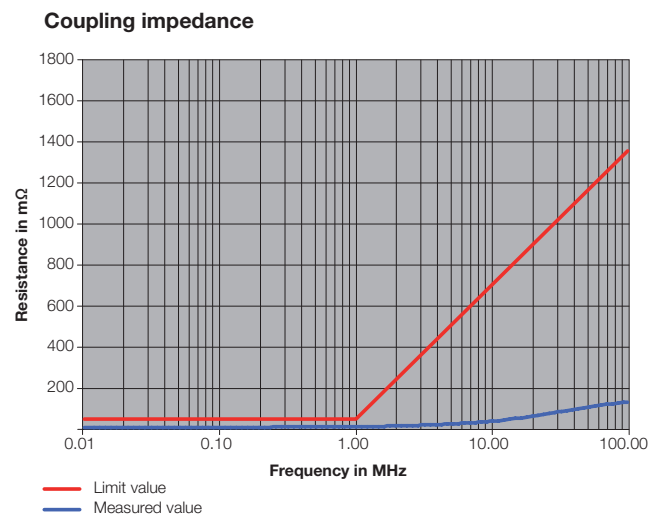
Technical data

A

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.



HDC IP68 16B TSS 1M50



IP class 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 6**
 | |
 | 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	
Type 1	Housing primarily for use in inside rooms. Protects from penetration of solid bodies.	Type 12	Housing for use in inside rooms. Protects from dust deposits and non-corrosive dripping liquids.
Type 2	Housing primarily for use in inside rooms. Protects from penetration of solid bodies and water.	Type 13	Housing for use in inside rooms. Protects from dust deposits, water spray, oil and non-corrosive coolants.
Type 3	Housing primarily for outdoor use. Protection against penetration by rainfall and dust as well as damage due to ice formation.		
Type 3R	Housing primarily for outdoor use. Protection against rain and snow as damage due to ice-formation.		
Type 3S	Housing primarily for outdoor use. Protection against rain, snow and foreign bodies. External mechanisms can be operated despite ice accumulation.		
Type 4	Housing for inside and outside rooms. Protects from rain, foreign bodies, water spray and water jets as well as damage through ice formation on the outside of the housing.		
Type 4X	Housing for inside and outside rooms. Protects from corrosion, rain, foreign bodies, water spray and water jets as well as damage through ice formation on the outside of the housing.		
Type 6	Housing for inside and outside rooms. Protects from water jets as well as penetration of water when submerged; protects from damage through ice formation on the outside of the housing.		

Chemical resistance

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

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

Chemical resistance of standard housing seal (material NBR)

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

- + resistant
- partially resistant
- o not resistant

Safety information / standards

A

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

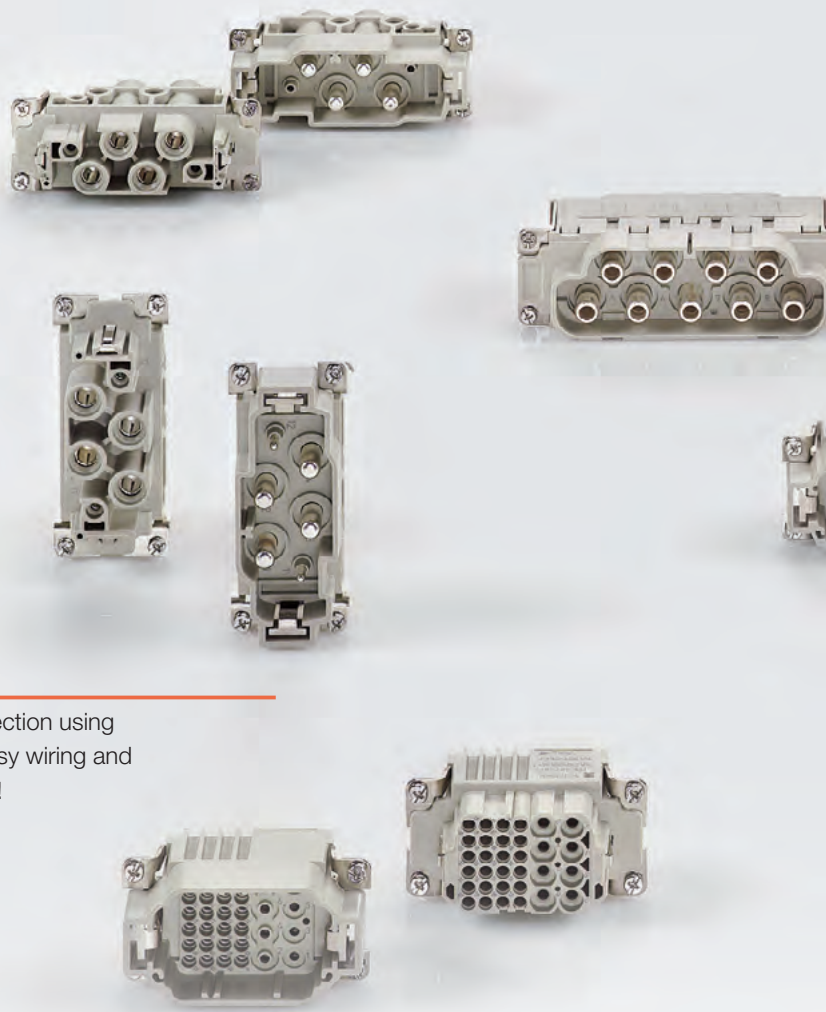
RockStar® inserts	Introduction	B.2
	HA series – the slim connectors	B.4
	250 V	
	22 A	
	3 – 48 poles	
	HE series – the universal connectors	B.18
	500 V	
	24 A	
	6 – 48 poles	
	HEE series – high contact density	B.32
	500 V	
	16 A	
	10 – 46 poles	
	HD series – the flexible connectors	B.44
	250 V	
	10 A	
	7 – 128 poles	
	HDD series – the compact connectors	B.68
	250 V	
	10 A	
	24 – 216 poles	
	HVE series – exciting voltage	B.82
	830 V	
	23 A	
	3 + 2; 6 + 2; 10 + 2 poles	
	HSB series – the heavy-duty connectors	B.90
	400 V	
	35 A	
	6 – 12 poles	
	HQ series – the powerful little connectors	B.96
	400 V / 690 V	
	16 A, 10/40 A	
	4/2, 5, 7, 8, 17 poles	
	MixMate series – the high-capacity connectors	B.108
	1000 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.

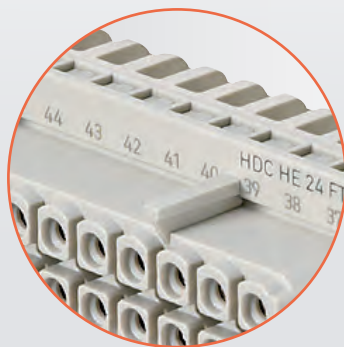
RockStar® inserts are fixed-pole inserts which consist of an insulating body and contact elements. The application-based design of a contact insert is determined by the electrical characteristics, mechanical specifications and the material used to make the insert.

All 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 / 1000 V.



Simple

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



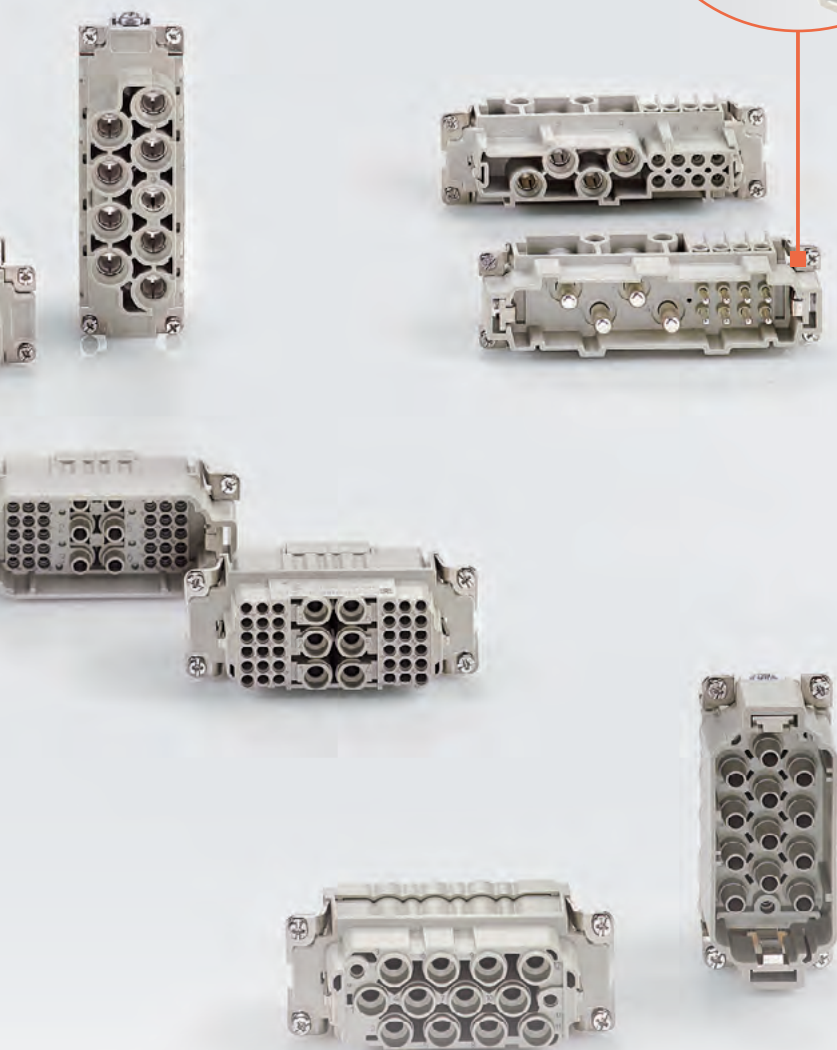
Consistency

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



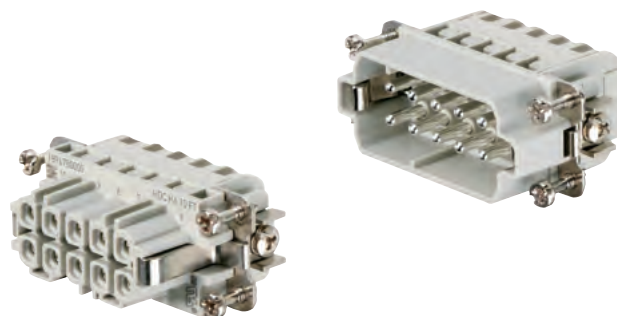
Suitable

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
Rated voltage to UL/CSA	600 V
Rated current	22 A (≥ 32 poles 16 A)
Rated impulse withstand voltage	4 kV
Pollution severity	3 (320 V / 4 kV / 2)
Insulation resistance	≥ 10 ¹⁰ Ω
Material	Glass-fibre reinforced PC (in UL list and approved for railway applications)
Temperature range	-40 °C ... +125 °C
Flammability to UL 94	V-0
Mechanical service life	
- Plugging cycles Ag - Surface	≥ 500
- Plugging cycles Au - Surface	≥ 500
Contact resistance	
Crimp connection	≤ 2 mΩ
Screw connection, Tension clamp connection	≤ 2 mΩ
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 PZ 0
- 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 PZ 1

Note:

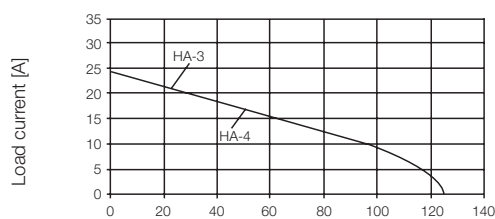
When used properly and as designated, the listed connectors may not be connected or disconnected if there is a live voltage or load!

* Crimping with flexible conductors.

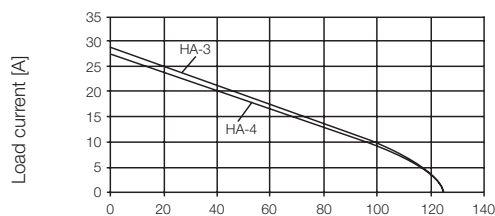
** For screw and crimp connections.

*** Stripping length of 6 mm for the 3- and 4-pole HA

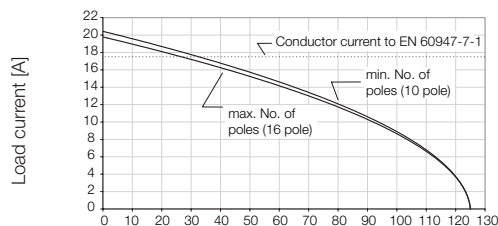
Derating curves



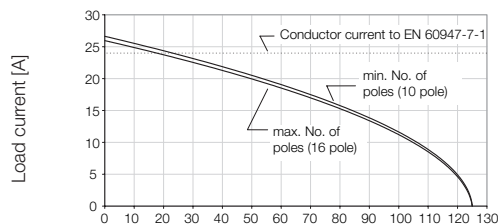
3 + 4-pole, 1.5 mm² Ambient temperature [°C]



3 + 4-pole, 2.5 mm² Ambient temperature [°C]















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



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

Overview

		Size	Rated voltage	Rated current	No. of poles	Tension clamp connection	Screw conn. with wire guard spring	Crimp connection	PUSH IN connection	Axial screw connection	Page
		1	250 V	22 A	3 + ⊕		•				B.6
		1	250 V	22 A	4 + ⊕		•				B.8
		2	250 V	22 A	10 + ⊕	•	•	•			B.10
		5	250 V	22 A	16 + ⊕	•	•	•			B.12
		7	250 V	16 A	32 + ⊕	•	•	•			B.14
		9	250 V	16 A	48 + ⊕	•	•	•			B.16

HA series - the slim connectors

250 V, 22 A, Size 1

3 + ⊕

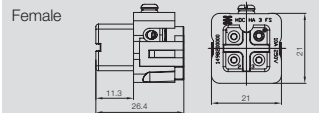
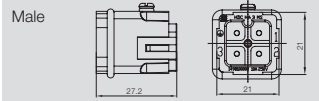
Inserts

Screw connection



Insert	Type	Order No.
Male	HDC HA 3 MS	1498100000
Female	HDC HA 3 FS	1498200000

Dimensions



Arrangement of contacts



Housing selection RockStar® IP66
Size 1



Further housings are available, see
Chapter E for IP66 and Chapter F for IP68

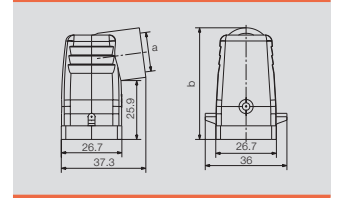
Hood

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

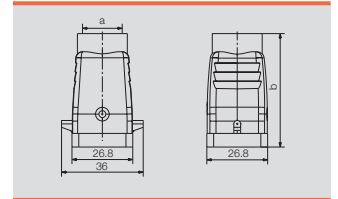


Plug housing, cable entry at top



Material: diecast aluminium

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



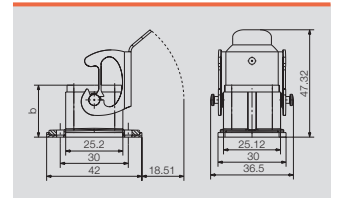
Base

Bulkhead housing



Material: diecast aluminium

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

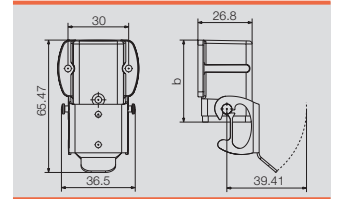


Base housing



Material: diecast aluminium

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

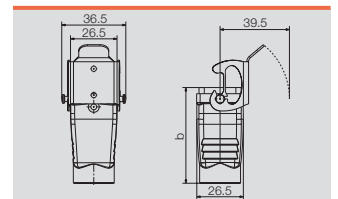


Coupling housing



Material: diecast aluminium

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

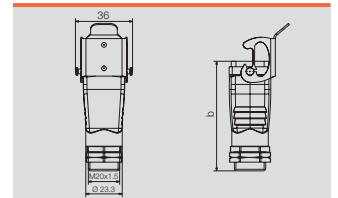


Screw mounting housing



Material: diecast aluminium

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

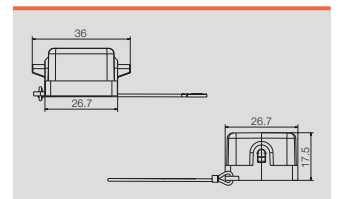


Cover



Material: diecast aluminium

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



HA series - the slim connectors

250 V, 22 A, Size 1

4 + ⊕

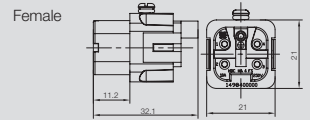
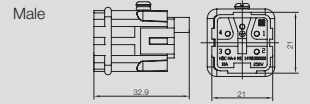
Inserts

Screw connection



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

Dimensions



Arrangement of contacts



Housing selection RockStar® IP66
Size 1



Further housings are available, see
Chapter E for IP66 and Chapter F for IP68

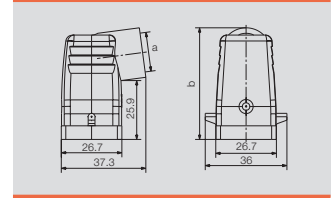
Hood

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

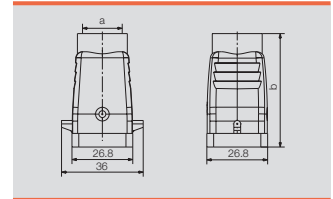


Plug housing, cable entry at top



Material: diecast aluminium

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



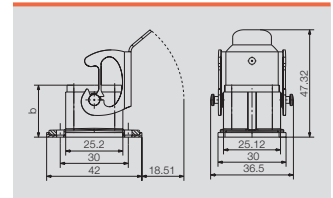
Base

Bulkhead housing



Material: diecast aluminium

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

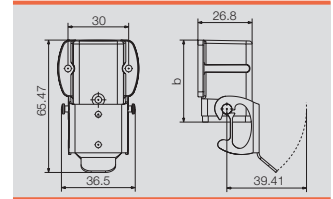


Base housing



Material: diecast aluminium

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

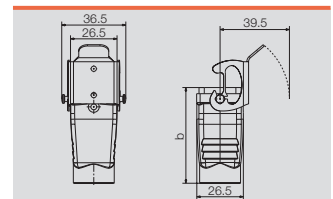


Coupling housing



Material: diecast aluminium

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

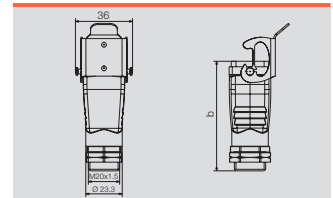


Screw mounting housing



Material: diecast aluminium

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

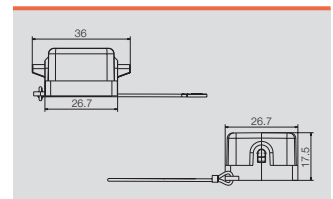


Cover



Material: diecast aluminium

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



HA series - the slim connectors

250 V, 22 A, Size 2

10 + ⊕

Inserts

Tension clamp connection



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

Screw connection



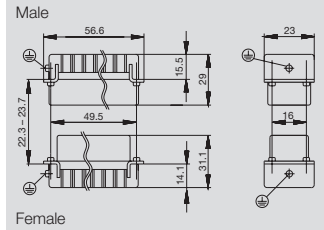
Insert	Type	Order No.
Male	HDC HA 10 MS	1650610000
Female	HDC HA 10 FS	1650620000

Crimp connection

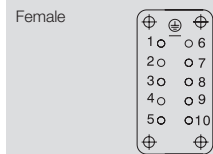
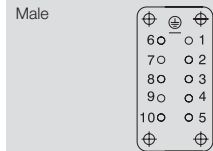


Insert	Type	Order No.
Male	HDC HA 10 MC	1873870000
Female	HDC HA 10 FC	1873860000

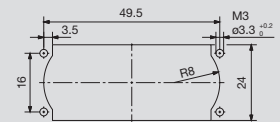
Dimensions



Arrangement of contacts



Mounting cut-out



Accessories

Crimp contacts

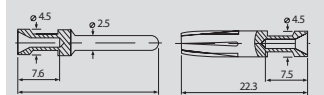
Surface finish gold



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-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
Contact Removal Tool	
Removal Tool HE	1866750000

Housing selection RockStar® IP66
Size 2



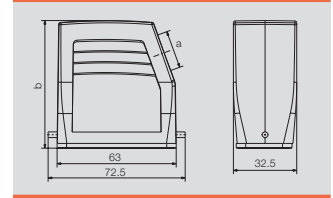
Further housings are available, see
Chapter E for IP66

Hood

Plug housing, cable entry sideways



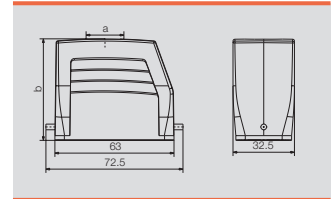
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		68	HDC 15A TSLU 1M20G	1788860000
M 25	w. threading		68	HDC 15A TSLU 1M25G	1788850000



Plug housing, cable entry at top



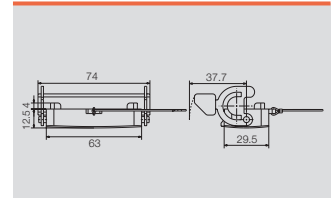
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		54	HDC 10A TOLU 1M20G	1788620000
M 25	w. threading		54	HDC 10A TOLU 1M25G	1788610000



Cover



Version	Type	Order No.
For hoods	HDC 10A DODL 1LB	1665890000

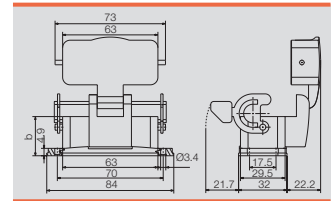


Base

Bulkhead housing



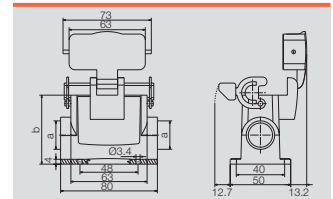
Version	Cover	b (mm)	Type	Order No.
		25	HDC 10A ALU	1664040000
	with cover	37.5	HDC 10A ADLU	1664060000



Base housing



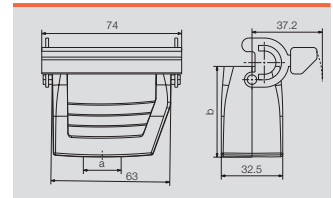
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		57	HDC 10A SLU 2M20G	1788640000
M 20	w. threading	with cover	69.5	HDC 10A SDLU 2M20G	1788660000
M 25	w. threading		57	HDC 10A SLU 2M25G	1788630000
M 25	w. threading	with cover	69.5	HDC 10A SDLU 2M25G	1788650000



Coupling housing



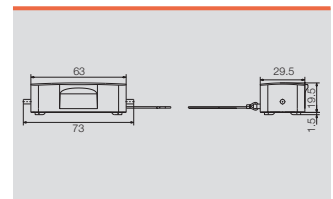
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		48	HDC 10A KLU 1M25G	1788670000



Cover



Version	Type	Order No.
For bases	HDC 10A DMDL 2B0	1665880000



HA series - the slim connectors

250 V, 22 A, Size 5

16 + ⊕

Inserts

Tension clamp connection



Insert	Type	Order No.
Male	HDC HA 16 MT	1896830000
Female	HDC HA 16 FT	1896800000

Screw connection



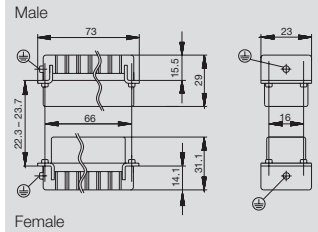
Insert	Type	Order No.
Male	HDC HA 16 MS	1650770000
Female	HDC HA 16 FS	1650780000

Crimp connection

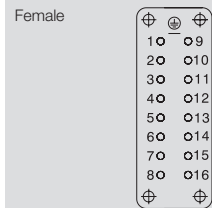
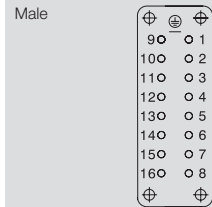


Insert	Type	Order No.
Male	HDC HA 16 MC	1873890000
Female	HDC HA 16 FC	1873880000

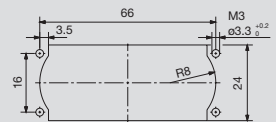
Dimensions



Arrangement of contacts



Mounting cut-out



Accessories

Crimp contacts

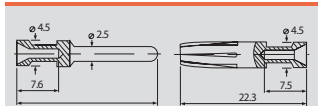
Surface finish gold



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-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
Contact Removal Tool	
Removal Tool HE	1866750000

Housing selection RockStar® IP66
Size 5



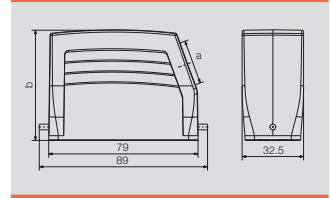
Further housings are available, see
Chapter E for IP66

Hood

Plug housing, cable entry sideways



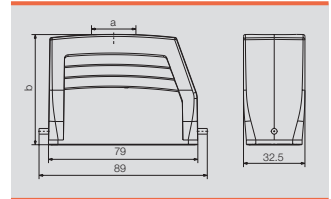
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		72	HDC 25A TSLU 1M20G	1788680000
M 25	w. threading		58	HDC 16A TSLU 1M25G	1788740000
M 25	w. threading		72	HDC 25A TSLU 1M25G	1788690000



Plug housing, cable entry at top



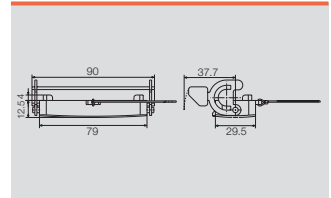
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		72	HDC 25A TOLU 1M20G	1788710000
M 25	w. threading		58	HDC 16A TOLU 1M25G	1788750000
M 25	w. threading		72	HDC 25A TOLU 1M25G	1788700000



Cover



Version	Type	Order No.
For hoods	HDC 16A DODL 1LB	1665900000

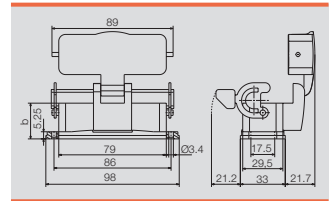


Base

Bulkhead housing



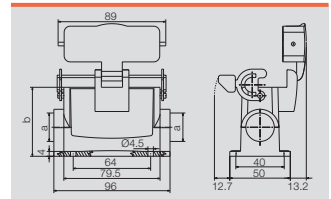
Version	Cover	b (mm)	Type	Order No.
		25	HDC 16A ALU	1664920000
	with cover	44.5	HDC 16A ADLU	1664940000



Base housing



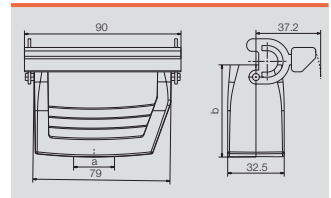
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		57	HDC 16A SLU 2M20G	1788770000
M 20	w. threading	with cover	76.5	HDC 16A SDLU 2M20G	1788790000
M 25	w. threading		57	HDC 16A SLU 2M25G	1788760000
M 25	w. threading	with cover	76.5	HDC 16A SDLU 2M25G	1788780000



Coupling housing



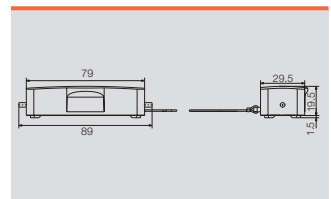
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		53	HDC 16A KLU 1M25G	1788800000



Cover



Version	Type	Order No.
For bases	HDC 16A DMDL 2B0	1665910000



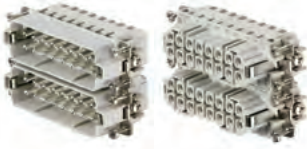
HA series - the slim connectors

250 V, 16 A, Size 7

32 + ⊕

Inserts

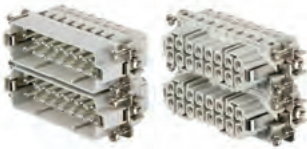
Tension clamp connection



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

Note To complete the assembly of the plug-in connector, two inserts are required

Screw connection



Insert	Type	Order No.
Male	HDC HA 16 MS	1650770000
Female	HDC HA 16 FS	1650780000
Male	HDC HA 16 MS 17-32	1650880000
Female	HDC HA 16 FS 17-32	1650900000

Note To complete the assembly of the plug-in connector, two inserts are required

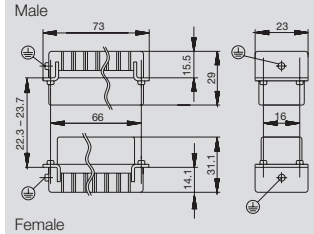
Crimp connection



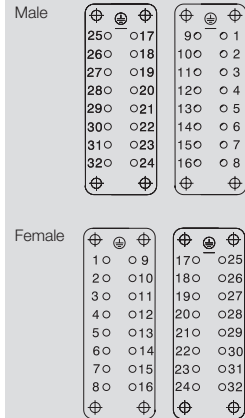
Insert	Type	Order No.
Male	HDC HA 16 MC	1873890000
Female	HDC HA 16 FC	1873880000
Male	HDC HA 16 MC 17 - 32	1875620000
Female	HDC HA 16 FC 17 - 32	1876040000

Note To complete the assembly of the plug-in connector, two inserts are required

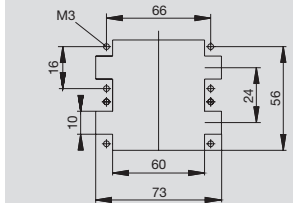
Dimensions



Arrangement of contacts



Mounting cut-out



Accessories

Crimp contacts

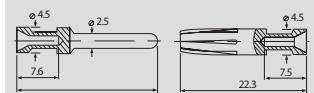
Surface finish gold



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-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
Contact Removal Tool	
Removal Tool HE	1866750000

Housing selection RockStar® IP66
Size 7



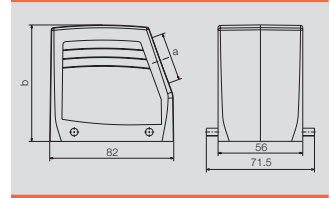
Further housings are available, see
Chapter E for IP66

Hood

Plug housing, cable entry sideways



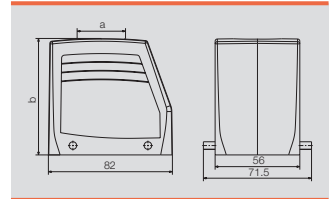
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		75	HDC 32A TSBU 1M25G	1787960000
M 32	w. threading		75	HDC 32A TSBU 1M32G	1787950000



Plug housing, cable entry at top



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

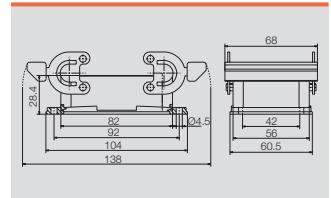


Base

Bulkhead housing



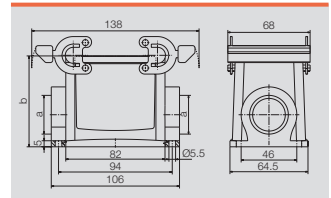
Version	Cover	b (mm)	Type	Order No.
		28.4	HDC 32A ABU	1665860000



Base housing



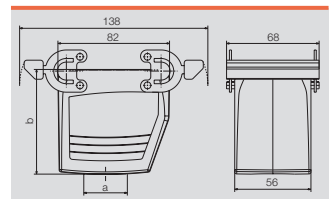
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		75	HDC 32A SBU 2M25G	1788040000



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



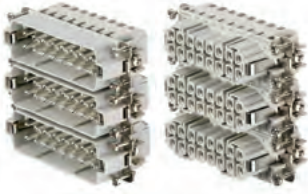
HA series - the slim connectors

250 V, 16 A, Size 9

48 + ⊕

Inserts

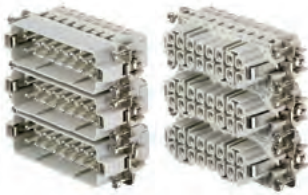
Tension clamp connection



Insert	Type	Order No.
Male	HDC HA 16 MT	1896830000
Female	HDC HA 16 FT	1896800000
Male	HDC HA 16 MT 17-32	1896840000
Female	HDC HA 16 FT 17-32	1896810000
Male	HDC HA 16 MT 33-48	1896850000
Female	HDC HA 16 FT 33-48	1896820000

Note To complete the assembly of the plug-in connector, three inserts are required

Screw connection



Insert	Type	Order No.
Male	HDC HA 16 MS	1650770000
Female	HDC HA 16 FS	1650780000
Male	HDC HA 16 MS 17-32	1650880000
Female	HDC HA 16 FS 17-32	1650900000
Male	HDC HA 16 MS 33-48	1650990000
Female	HDC HA 16 FS 33-48	1651020000

Note To complete the assembly of the plug-in connector, three inserts are required

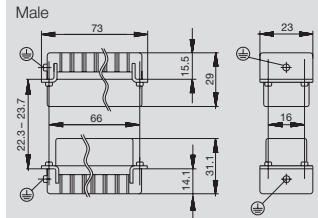
Crimp connection



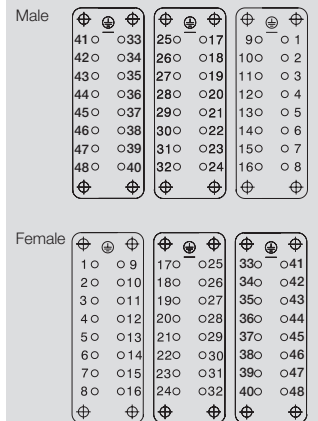
Insert	Type	Order No.
Male	HDC HA 16 MC	1873890000
Female	HDC HA 16 FC	1873880000
Male	HDC HA 16 MC 17 - 32	1875620000
Female	HDC HA 16 FC 17 - 32	1876040000
Male	HDC HA 16 MC 33 - 48	1875630000
Female	HDC HA 16 FC 33 - 48	1875540000

Note To complete the assembly of the plug-in connector, three inserts are required

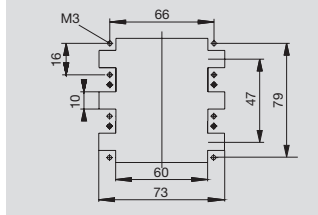
Dimensions



Arrangement of contacts



Mounting cut-out



Accessories

Crimp contacts

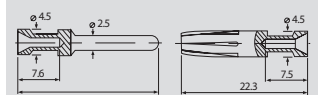
Surface finish gold



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-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
Contact Removal Tool	
Removal Tool HE	1866750000

Housing selection RockStar® IP66
Size 9



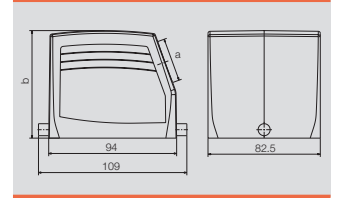
Further housings are available, see
Chapter E for IP66

Hood

Plug housing, cable entry sideways



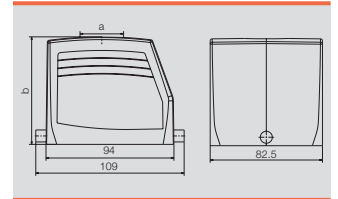
a	Version	Cover	b (mm)	Type	Order No.
M 32	w. threading		79	HDC 48A TSLU 1M32G	1788550000



Plug housing, cable entry at top



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

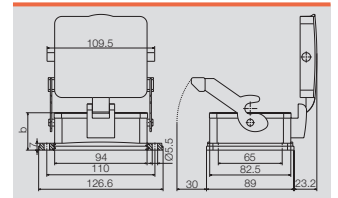


Base

Bulkhead housing



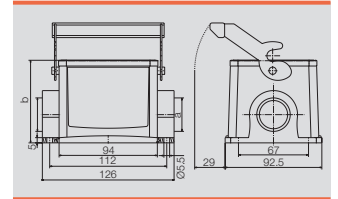
Version	Cover	b (mm)	Type	Order No.
		38	HDC 48A ALU	1666740000
	with cover	55	HDC 48A ADLU	1666750000



Base housing



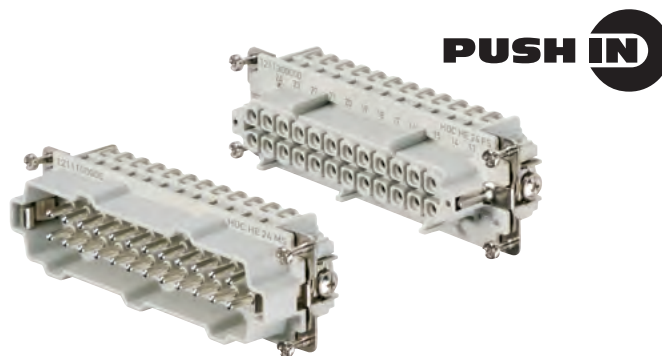
a	Version	Cover	b (mm)	Type	Order No.
M 32	w. threading		79	HDC 48A SLU 2M32G	1788570000



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 ... +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	0.5...2.5 mm ² (AWG 20...14) / 10 mm
Clamping torque	
- Screw connection	0.5 - 0.55 Nm
SD blades	
- Screw connection	0.6 x 3.5 or PZ 0
- PUSH IN	0.4 x 2.5
- Tension clamp connection	0.5 x 3 or 0.6 x 3.5

* The HE 10 inserts are included in the ISO 23570 as motor terminal connectors.

** For screw, crimp, and PUSH IN connections

Contacts / Material

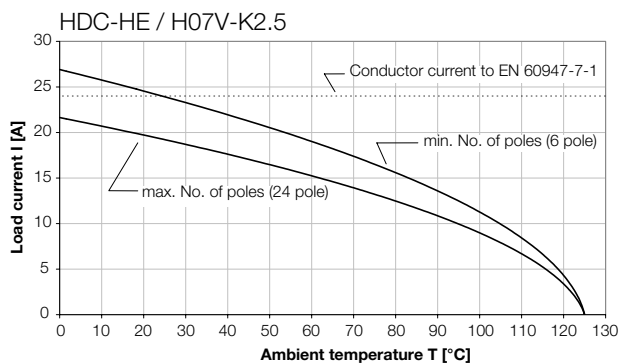
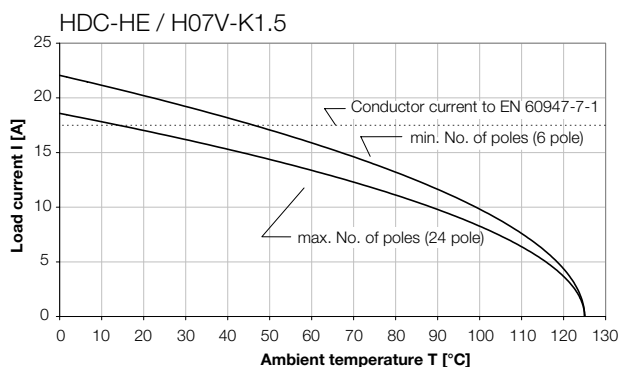
PE connection

- 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 PZ 1













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.

Derating curves



Overview

		Size	Rated voltage	Rated current	No. of poles	Tension clamp connection	Screw conn. with wire guard spring	Crimp connection	PUSH IN connection	Axial screw 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 + ⊕

Inserts

Tension clamp connection



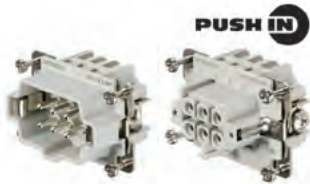
Insert	Type	Order No.
Male	HDC HE 6 MT	1745820000
Female	HDC HE 6 FT	1745760000

Screw connection



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

PUSH IN connection



Insert	Type	Order No.
Male	HDC HE 6 MP	1873530000
Female	HDC HE 6 FP	1873520000

Crimp connection



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

Dimensions

A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
51.00	33.80	33.20	19.10	16.50

Arrangement of contacts

Male

Female

Mounting cut-out

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-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
Contact Removal Tool	
Removal Tool HE	1866750000

Housing selection RockStar® IP66
Size 3



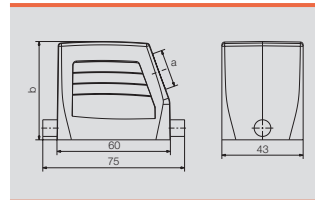
Further housings are available, see Chapter E for IP66 and Chapter F for IP68

Hood

Plug housing, cable entry sideways



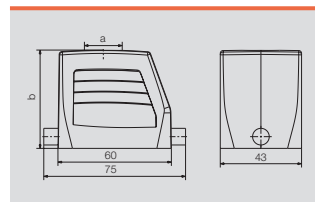
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		52	HDC 06B TSLU 1M20G	1788100000
M 25	w. threading		52	HDC 06B TSLU 1M25G	1788090000
M 25	w. threading		72	HDC 16D TSLU 1M25G	1787480000



Plug housing, cable entry at top



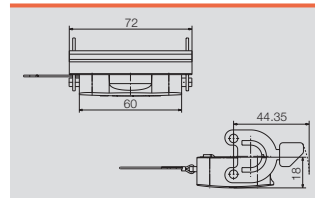
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		52	HDC 06B TOLU 1M20G	1788120000
M 25	w. threading		52	HDC 06B TOLU 1M25G	1788110000
M 25	w. threading		72	HDC 16D TOLU 1M25G	1787500000
M 32	w. threading		72	HDC 16D TOLU 1M32G	1787490000



Cover



Version	Type	Order No.
For hoods	HDC 06B DMDL 1LB	1665210000

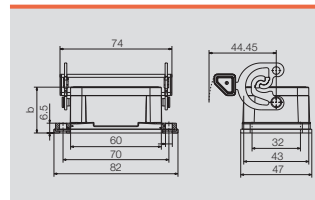


Base

Bulkhead housing



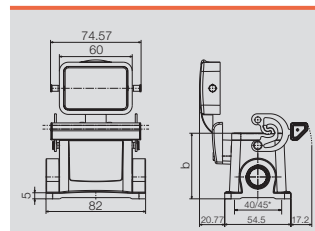
Version	Cover	b (mm)	Type	Order No.
		29	HDC 06B ALU	1202100000
	with cover	47	HDC 06B ADLU	1202500000



Base housing



a	Version	Cover	b (mm)	Type	Order No.
M 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

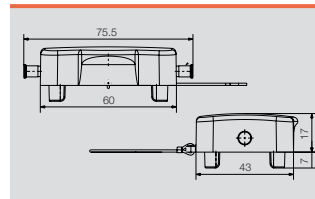


* Mounting dimensions for size-3 base housings, tall shape (16D)

Cover



Version	Type	Order No.
For bases	HDC 06B DODL 2B0	1665200000



HE series - the universal connectors

500 V, 16 A, Size 4

10 + ⊕

Inserts

Tension clamp connection



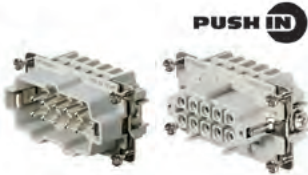
Insert	Type	Order No.
Male	HDC HE 10 MT	1745830000
Female	HDC HE 10 FT	1745770000

Screw connection



Insert	Type	Order No.
Male	HDC HE 10 MS	1203900000
Female	HDC HE 10 FS	1204100000

PUSH IN connection



Insert	Type	Order No.
Male	HDC HE 10 MP	1873550000
Female	HDC HE 10 FP	1873540000

Crimp connection



Insert	Type	Order No.
Male	HDC HE 10 MC	1204300000
Female	HDC HE 10 FC	1204400000

Dimensions

A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
64.00	33.80	33.20	19.10	16.50

Arrangement of contacts

Male

Female

Mounting cut-out

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-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
Contact Removal Tool	
Removal Tool HE	1866750000

Housing selection RockStar® IP66
Size 4



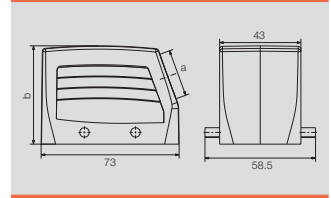
Further housings are available, see
Chapter E for IP66 and Chapter F for IP68

Hood

Plug housing, cable entry sideways



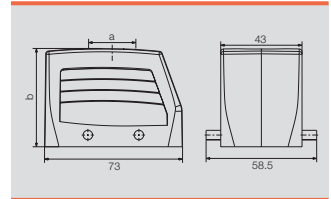
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		52	HDC 10B TSBU 1M20G	1787560000
M 25	w. threading		52	HDC 10B TSBU 1M25G	1787550000
M 25	w. threading		72	HDC 24D TSBU 1M25G	1787240000
M 32	w. threading		72	HDC 24D TSBU 1M32G	1787230000



Plug housing, cable entry at top



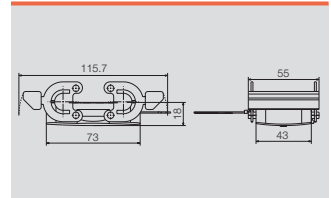
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		52	HDC 10B TOBU 1M20G	1787600000
M 25	w. threading		52	HDC 10B TOBU 1M25G	1787590000
M 25	w. threading		72	HDC 24D TOBU 1M25G	1787300000
M 32	w. threading		72	HDC 24D TOBU 1M32G	1787290000



Cover



Version	Type	Order No.
For hoods	HDC 10B DMDQ 2QB	1665240000

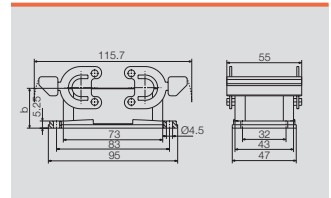


Base

Bulkhead housing



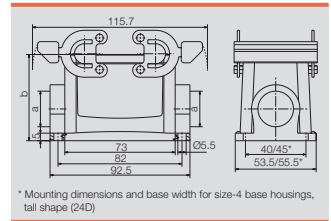
Version	Cover	b (mm)	Type	Order No.
		29,3	HDC 10B ABU	1205000000



Base housing



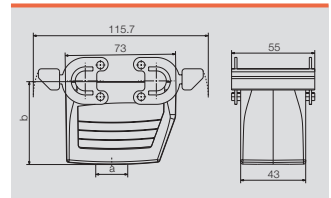
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		57	HDC 10B SBU 2M20G	1787640000
M 25	w. threading		57	HDC 10B SBU 2M25G	1787630000



Coupling housing



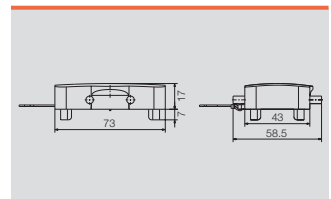
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		55	HDC 10B KBU 1M20G	1787720000



Cover



Version	Type	Order No.
For bases	HDC 10B DODQ 4B0	1665230000



HE series - the universal connectors

500 V, 16 A, Size 6

16 + ⊕

Inserts

Tension clamp connection



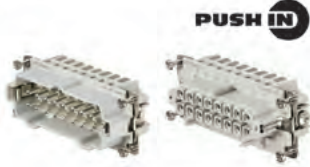
Insert	Type	Order No.
Male	HDC HE 16 MT	1745840000
Female	HDC HE 16 FT	1745780000

Screw connection



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

PUSH IN connection



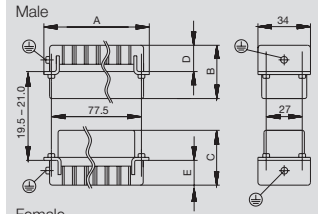
Insert	Type	Order No.
Male	HDC HE 16 MP	1873570000
Female	HDC HE 16 FP	1873560000

Crimp connection



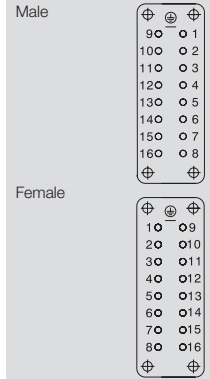
Insert	Type	Order No.
Male	HDC HE 16 MC	1207900000
Female	HDC HE 16 FC	1208000000

Dimensions

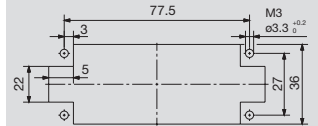


A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
84.50	33.80	33.20	19.10	16.50

Arrangement of contacts



Mounting cut-out



Accessories

Crimp contacts

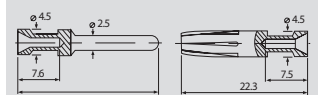
Surface finish gold



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-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		Order No.
CTX CM 1.6/2.5		9018490000
Contact Removal Tool		Order No.
Removal Tool HE		1866750000

Housing selection RockStar® IP66
Size 6



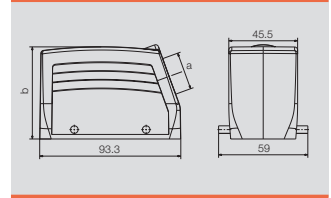
Further housings are available, see
Chapter E for IP66 and Chapter F for IP68

Hood

Plug housing, cable entry sideways



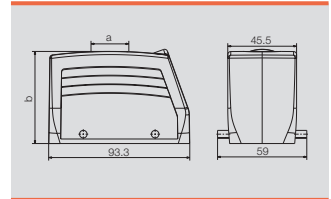
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 16B TSBU 1M25G	1788180000
M 25	w. threading		76	HDC 40D TSBU 1M25G	1787010000
M 32	w. threading		76	HDC 40D TSBU 1M32G	1787000000



Plug housing, cable entry at top



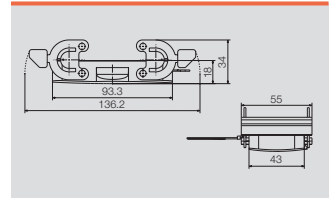
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 16B TOBU 1M25G	1788210000
M 25	w. threading		76	HDC 40D TOBU 1M25G	1787070000
M 32	w. threading		76	HDC 40D TOBU 1M32G	1787060000



Cover



Version	Type	Order No.
For hoods	HDC 16B DMDQ 2QB	1665270000

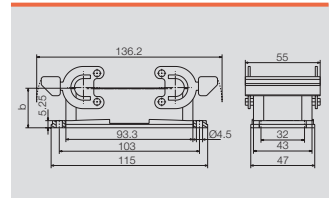


Base

Bulkhead housing



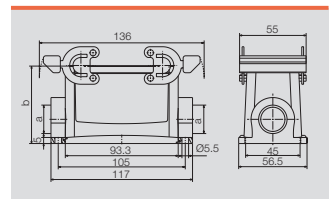
Version	Cover	b (mm)	Type	Order No.
		29	HDC 16B ABU	1208600000



Base housing



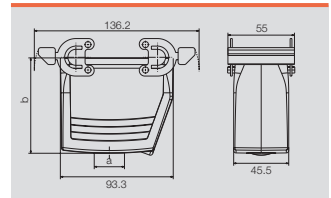
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		64	HDC 16B SBU 2M25G	1788240000
M 25	w. threading		84	HDC 40D SBU 2M25G	1787120000
M 32	w. threading		84	HDC 40D SBU 2M32G	1787110000



Coupling housing



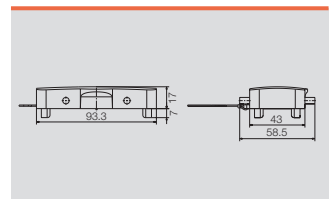
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		79	HDC 40D KBU 1M25G	1787200000
M 32	w. threading		79	HDC 40D KBU 1M32G	1787190000



Cover



Version	Type	Order No.
For bases	HDC 16B DODQ 4B0	1665260000



HE series - the universal connectors

500 V, 16 A, Size 8

24 + ⊕

Inserts

Tension clamp connection



Insert	Type	Order No.
Male	HDC HE 24 MT	1745850000
Female	HDC HE 24 FT	1745790000

Screw connection



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

PUSH IN connection



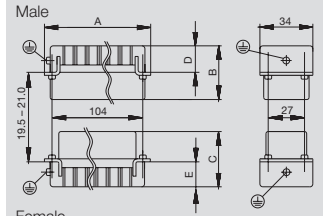
Insert	Type	Order No.
Male	HDC HE 24 MP	1873590000
Female	HDC HE 24 FP	1873580000

Crimp connection



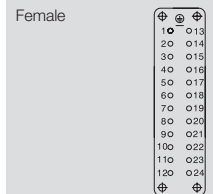
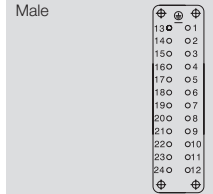
Insert	Type	Order No.
Male	HDC HE 24 MC	1211500000
Female	HDC HE 24 FC	1211600000

Dimensions

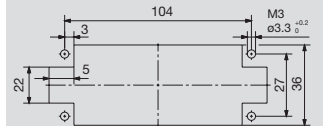


A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
111.00	33.80	33.20	19.10	16.50

Arrangement of contacts



Mounting cut-out



Accessories

Crimp contacts

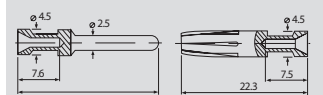
Surface finish gold



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-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		Order No.
CTX CM 1.6/2.5		9018490000
Contact Removal Tool		Order No.
Removal Tool HE		1866750000

Housing selection RockStar® IP66
Size 8



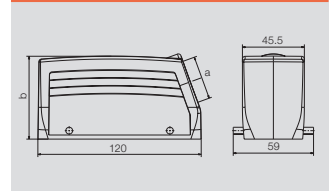
Further housings are available, see
Chapter E for IP66 and Chapter F for IP68

Hood

Plug housing, cable entry sideways



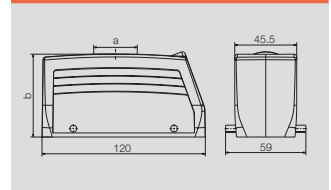
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 24B TSBU 1M25G	1787760000
M 25	w. threading		76	HDC 64D TSBU 1M25G	1786780000
M 32	w. threading		61	HDC 24B TSBU 1M32G	1787750000
M 32	w. threading		76	HDC 64D TSBU 1M32G	1786770000



Plug housing, cable entry at top



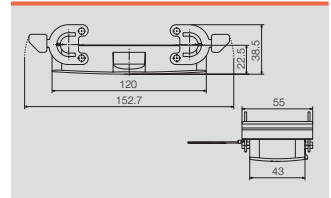
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 24B TOBU 1M25G	1787820000
M 32	w. threading		61	HDC 24B TOBU 1M32G	1787810000
M 32	w. threading		76	HDC 64D TOBU 1M32G	1786830000



Cover



Version	Type	Order No.
For hoods	HDC 24B DMDQ 2QB	1665640000

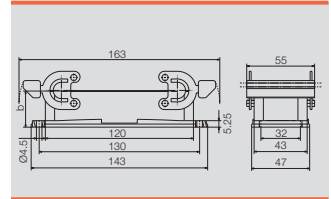


Base

Bulkhead housing



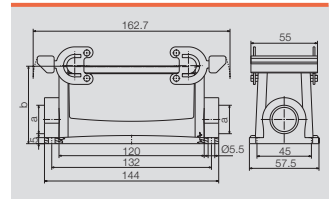
Version	Cover	b (mm)	Type	Order No.
		29,3	HDC 24B ABU	1212400000



Base housing



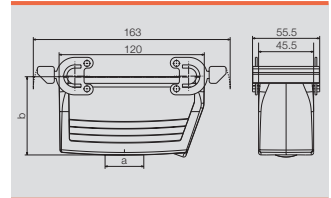
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		64	HDC 24B SBU 2M25G	1787870000
M 25	w. threading		84	HDC 64D SBU 2M25G	1786890000
M 32	w. threading		84	HDC 64D SBU 2M32G	1786880000



Coupling housing



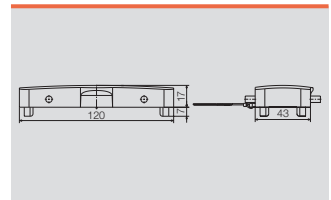
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		65	HDC 24B KBU 1M25G	1787920000
M 32	w. threading		79	HDC 64D KBU 1M32G	1786960000



Cover



Version	Type	Order No.
For bases	HDC 24B DODQ 4B0	1665630000



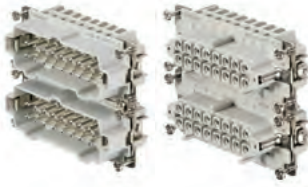
HE series - the universal connectors

500 V, 16 A, Size 10

32 + ⊕

Inserts

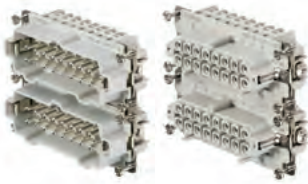
Tension clamp connection



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

Note To complete the assembly of the plug-in connector, two inserts are required

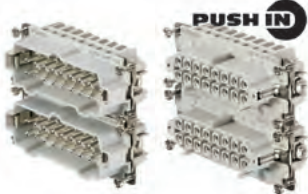
Screw connection



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

Note To complete the assembly of the plug-in connector, two inserts are required

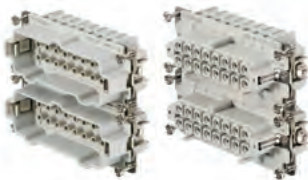
PUSH IN connection



Insert	Type	Order No.
Male	HDC HE 16 MP	1873570000
Female	HDC HE 16 FP	1873560000
Male	HDC HE 16 MP 17-32	1875800000
Female	HDC HE 16 FP 17-32	1875740000

Note To complete the assembly of the plug-in connector, two inserts are required

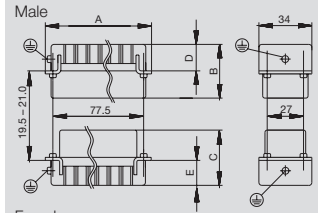
Crimp connection



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

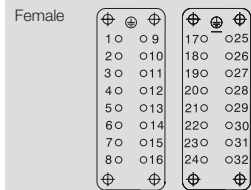
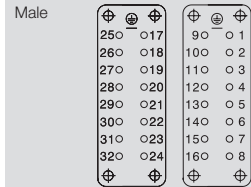
Note To complete the assembly of the plug-in connector, two inserts are required

Dimensions

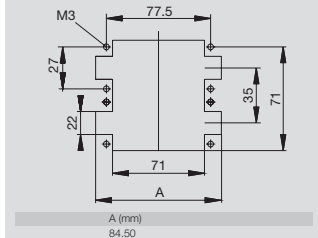


	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
Male	84.50	33.80	33.20	19.10	16.50

Arrangement of contacts



Mounting cut-out



Accessories

Crimp contacts

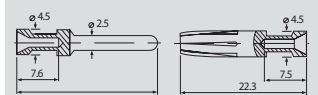
Surface finish gold



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-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
Contact Removal Tool	
Removal Tool HE	1866750000

Housing selection RockStar® IP66
Size 10



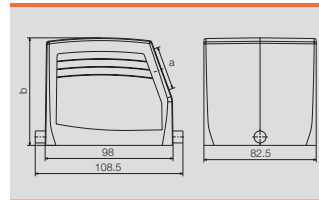
Further housings are available, see Chapter E for IP66

Hood

Plug housing, cable entry sideways



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

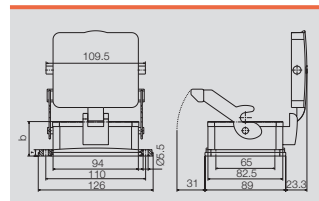


Base

Bulkhead housing



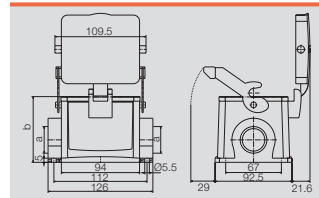
Version	Cover	b (mm)	Type	Order No.
		38	HDC 32B ALU	1219500000
	with cover	55	HDC 32B ADLU	1219800000



Base housing



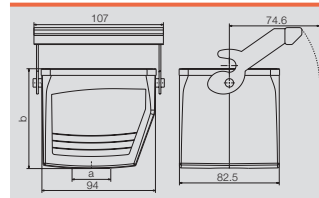
a	Version	Cover	b (mm)	Type	Order No.
M 32	w. threading		79	HDC 32B SLU 2M32G	1788470000
M 32	w. threading	with cover	96	HDC 32B SDLU 2M32G	1788490000



Coupling housing



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



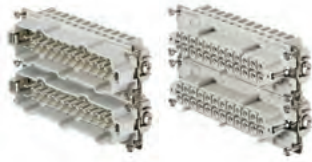
HE series - the universal connectors

500 V, 16 A, Size 12

48 + ⊕

Inserts

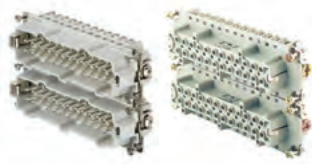
Tension clamp connection



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

Note To complete the assembly of the plug-in connector, two inserts are required

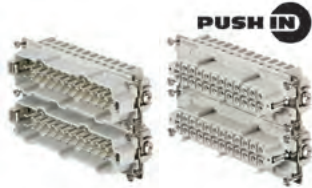
Screw connection



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

Note To complete the assembly of the plug-in connector, two inserts are required

PUSH IN connection



Insert	Type	Order No.
Male	HDC HE 24 MP	1873590000
Female	HDC HE 24 FP	1873580000
Male	HDC HE 24 MP 25-48	1875890000
Female	HDC HE 24 FP 25-48	1875850000

Note To complete the assembly of the plug-in connector, two inserts are required

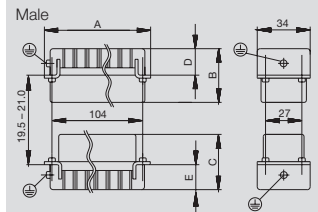
Crimp connection



Insert	Type	Order No.
Male	HDC HE 24 MC	1211500000
Female	HDC HE 24 FC	1211600000
Male	HDC HE 24 MC 25-48	1226400000
Female	HDC HE 24 FC 25-48	1226600000

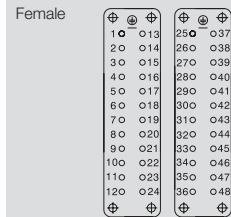
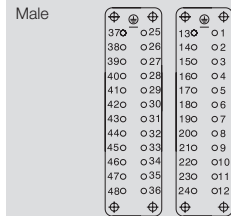
Note To complete the assembly of the plug-in connector, two inserts are required

Dimensions

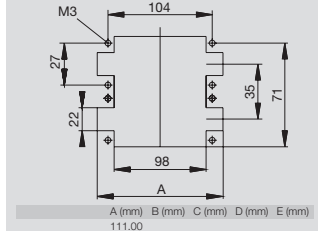


A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
111.00	33.80	33.20	19.10	16.50

Arrangement of contacts



Mounting cut-out



Accessories

Crimp contacts

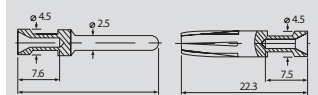
Surface finish gold



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-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		Order No.
CTX CM 1.6/2.5		9018490000
Contact Removal Tool		Order No.
Removal Tool HE		1866750000

Housing selection RockStar® IP66
Size 12



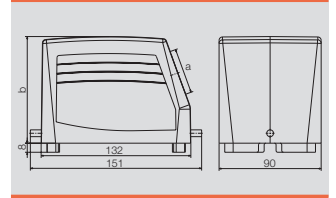
Further housings are available, see
Chapter E for IP66

Hood

Plug housing, cable entry sideways



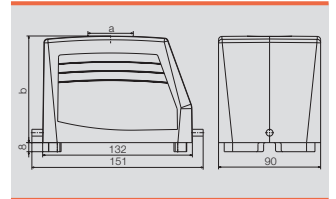
a	Version	Cover	b (mm)	Type	Order No.
M 32	w. threading		94	HDC 48B TSLU 1M32G	1788320000
M 40	w. threading		94	HDC 48B TSLU 1M40G	1788310000
M 50	w. threading		94	HDC 48B TSLU 1M50G	1788300000



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

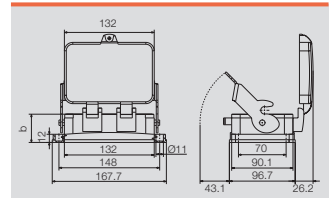


Base

Bulkhead housing



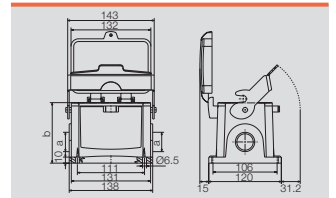
Version	Cover	b (mm)	Type	Order No.
	with cover	62	HDC 48B ADLU	1222900000



Base housing

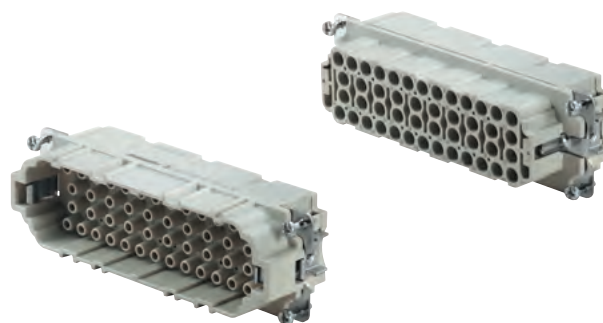


a	Version	Cover	b (mm)	Type	Order No.
M 32	w. threading		100	HDC 48B SLU 2M32G	1788370000
M 32	w. threading	with cover	120	HDC 48B SDLU 2M32G	1788390000
M 40	w. threading		100	HDC 48B SLU 2M40G	1788360000



HEE series – high contact density

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

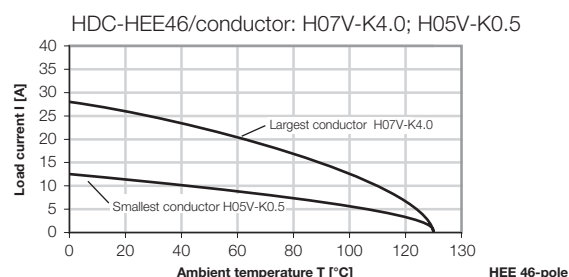
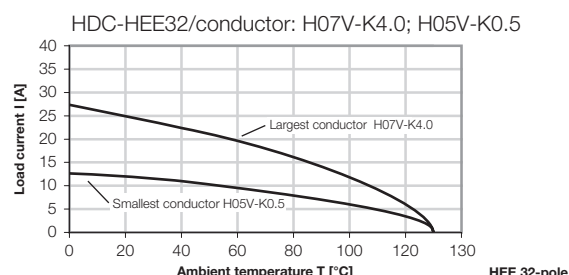
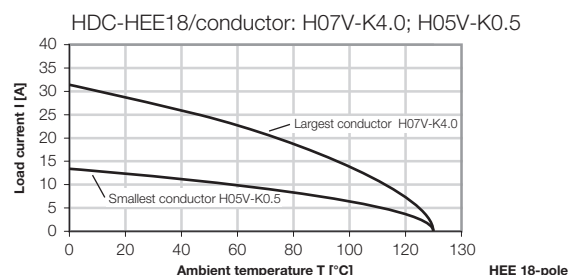
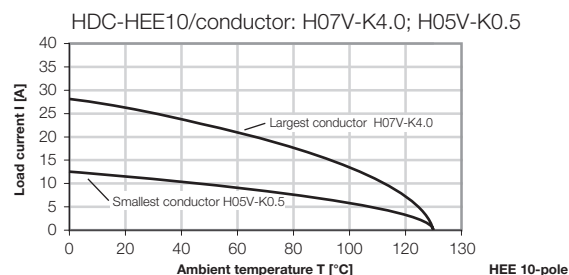


Technical data











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 ... +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 PZ 1

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

Derating curves



Overview

		Size	Rated voltage	Rated current	No. of poles	Tension clamp connection	Screw conn. with wire guard spring	Crimp connection	PUSH IN connection	Axial screw 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
		8	500 V	16 A	46 + ⊕			•			B.40
		10	500 V	16 A	64 + ⊕			•			B.42

HEE series - high contact density

500 V, 16 A, Size 3

10 + ⊕

Inserts

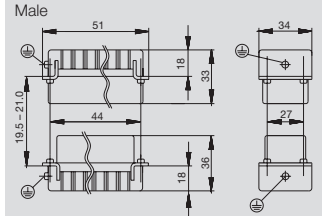
Crimp connection



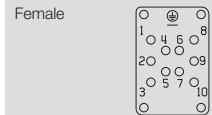
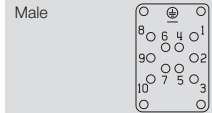
Insert	Type	Order No.
Male	HDC HEE 10 MC	1826830000
Female	HDC HEE 10 FC	1826840000

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

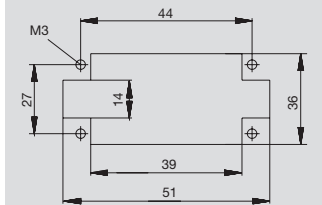
Dimensions



Arrangement of contacts



Mounting cut-out



Accessories

Crimp contacts

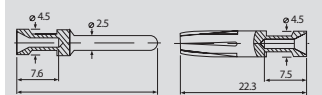
Surface finish gold



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-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
Contact Removal Tool	
Removal Tool HE	1866750000

Housing selection RockStar® IP66
Size 3



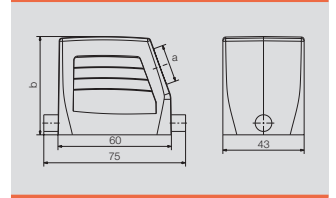
Further housings are available, see
Chapter E for IP66 and Chapter F for IP68

Hood

Plug housing, cable entry sideways



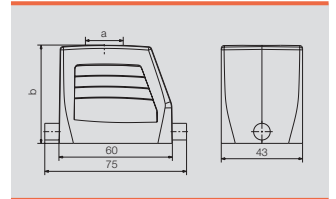
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		52	HDC 06B TSLU 1M20G	1788100000
M 25	w. threading		52	HDC 06B TSLU 1M25G	1788090000
M 25	w. threading		72	HDC 16D TSLU 1M25G	1787480000



Plug housing, cable entry at top



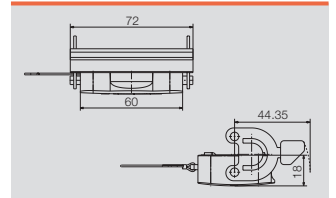
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		52	HDC 06B TOLU 1M20G	1788120000
M 25	w. threading		52	HDC 06B TOLU 1M25G	1788110000
M 25	w. threading		72	HDC 16D TOLU 1M25G	1787500000
M 32	w. threading		72	HDC 16D TOLU 1M32G	1787490000



Cover



Version	Type	Order No.
For hoods	HDC 06B DMDL 1LB	1665210000

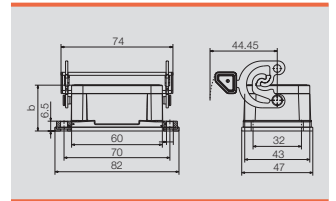


Base

Bulkhead housing



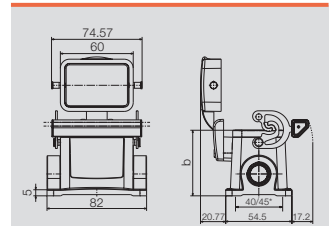
Version	Cover	b (mm)	Type	Order No.
		29	HDC 06B ALU	1202100000
	with cover	47	HDC 06B ADLU	1202500000



Base housing



a	Version	Cover	b (mm)	Type	Order No.
M 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

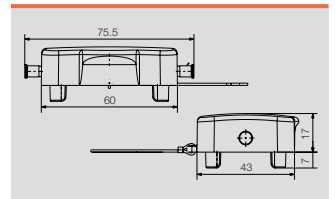


* Mounting dimensions for size-3 base housings, tall shape (16D)

Cover



Version	Type	Order No.
For bases	HDC 06B DODL 2B0	1665200000



HEE series - high contact density

500 V, 16 A, Size 4

18 + ⊕

Inserts

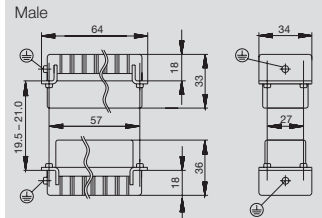
Crimp connection



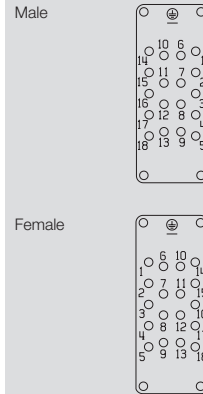
Insert	Type	Order No.
Male	HDC HEE 18 MC	1826810000
Female	HDC HEE 18 FC	1826820000

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

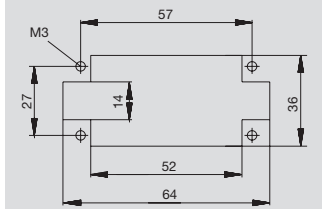
Dimensions



Arrangement of contacts



Mounting cut-out



Accessories

Crimp contacts

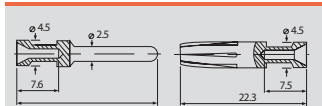
Surface finish gold



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	
Surface finish gold			Surface finish silver		
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
Contact Removal Tool	
Removal Tool HE	1866750000

Housing selection RockStar® IP66
Size 4



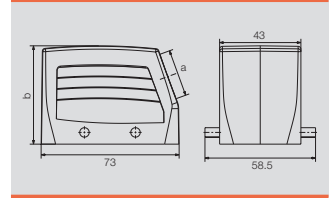
Further housings are available, see
Chapter E for IP66 and Chapter F for IP68

Hood

Plug housing, cable entry sideways



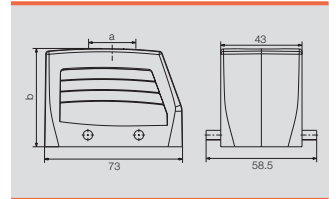
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		52	HDC 10B TSBU 1M20G	1787560000
M 25	w. threading		52	HDC 10B TSBU 1M25G	1787550000
M 25	w. threading		72	HDC 24D TSBU 1M25G	1787240000
M 32	w. threading		72	HDC 24D TSBU 1M32G	1787230000



Plug housing, cable entry at top



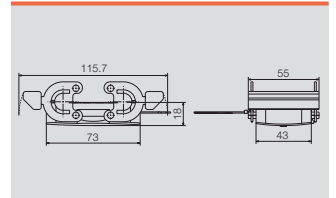
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		52	HDC 10B TOBU 1M20G	1787600000
M 25	w. threading		52	HDC 10B TOBU 1M25G	1787590000
M 25	w. threading		72	HDC 24D TOBU 1M25G	1787300000
M 32	w. threading		72	HDC 24D TOBU 1M32G	1787290000



Cover



Version	Type	Order No.
For hoods	HDC 10B DMDQ 2QB	1665240000

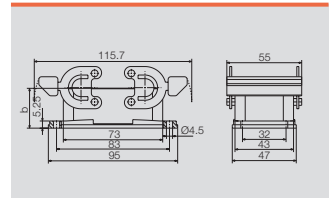


Base

Bulkhead housing



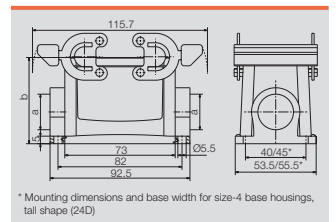
Version	Cover	b (mm)	Type	Order No.
		29.3	HDC 10B ABU	1205000000



Base housing



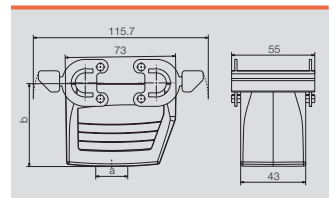
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		57	HDC 10B SBU 2M20G	1787640000
M 25	w. threading		57	HDC 10B SBU 2M25G	1787630000



Coupling housing



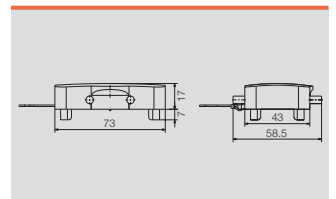
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		55	HDC 10B KBU 1M20G	1787720000



Cover



Version	Type	Order No.
For bases	HDC 10B DODQ 4B0	1665230000



HEE series - high contact density

500 V, 16 A, Size 6

32 + ⊕

Inserts

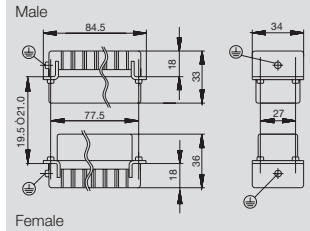
Crimp connection



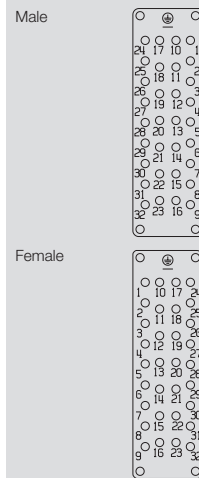
Insert	Type	Order No.
Male	HDC HEE 32 MC	1826790000
Female	HDC HEE 32 FC	1826800000

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

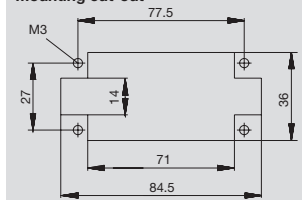
Dimensions



Arrangement of contacts



Mounting cut-out



Accessories

Crimp contacts

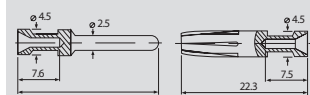
Surface finish gold



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-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
Contact Removal Tool	
Removal Tool HE	1866750000

Housing selection RockStar® IP66
Size 6



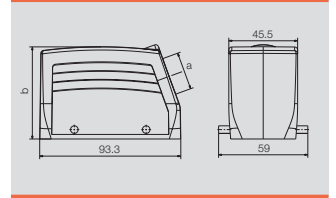
Further housings are available, see
Chapter E for IP66 and Chapter F for IP68

Hood

Plug housing, cable entry sideways



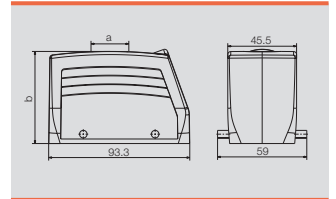
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 16B TSBU 1M25G	1788180000
M 25	w. threading		76	HDC 40D TSBU 1M25G	1787010000
M 32	w. threading		76	HDC 40D TSBU 1M32G	1787000000



Plug housing, cable entry at top



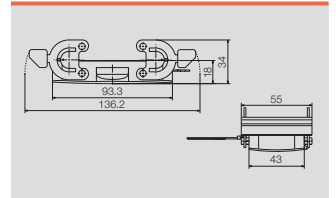
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 16B TOBU 1M25G	1788210000
M 25	w. threading		76	HDC 40D TOBU 1M25G	1787070000
M 32	w. threading		76	HDC 40D TOBU 1M32G	1787060000



Cover



Version	Type	Order No.
For hoods	HDC 16B DMDQ 2QB	1665270000

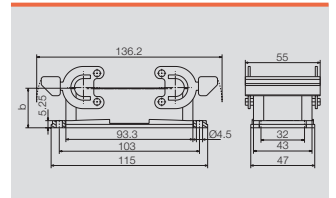


Base

Bulkhead housing



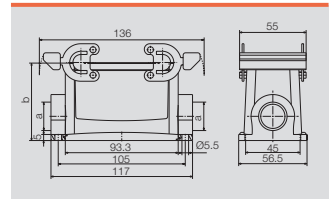
Version	Cover	b (mm)	Type	Order No.
		29	HDC 16B ABU	1208600000



Base housing



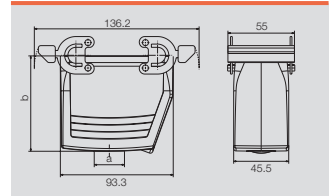
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		64	HDC 16B SBU 2M25G	1788240000
M 25	w. threading		84	HDC 40D SBU 2M25G	1787120000
M 32	w. threading		84	HDC 40D SBU 2M32G	1787110000



Coupling housing



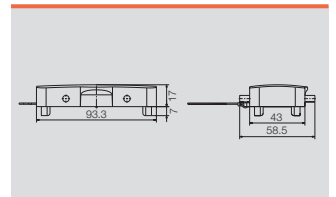
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		79	HDC 40D KBU 1M25G	1787200000
M 32	w. threading		79	HDC 40D KBU 1M32G	1787190000



Cover



Version	Type	Order No.
For bases	HDC 16B DODQ 4B0	1665260000



HEE series - high contact density

500 V, 16 A, Size 8

46 + ⊕

Inserts

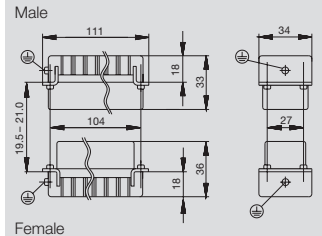
Crimp connection



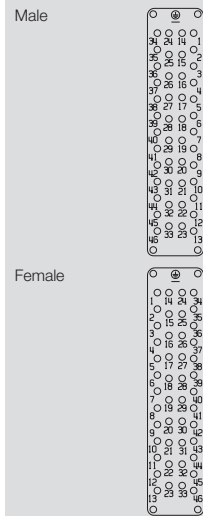
Insert	Type	Order No.
Male	HDC HEE 46 MC	1826770000
Female	HDC HEE 46 FC	1826780000

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

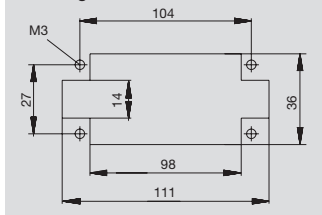
Dimensions



Arrangement of contacts



Mounting cut-out



Accessories

Crimp contacts

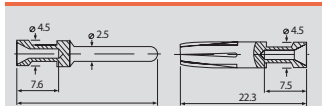
Surface finish gold



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	
Surface finish silver					
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
Contact Removal Tool	
Removal Tool HE	1866750000

Housing selection RockStar® IP66
Size 8



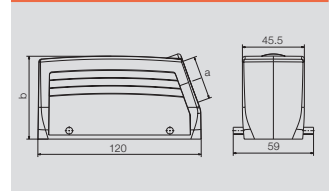
Further housings are available, see
Chapter E for IP66 and Chapter F for IP68

Hood

Plug housing, cable entry sideways



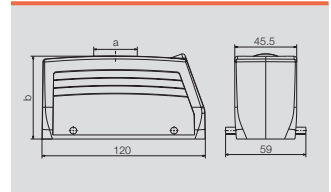
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 24B TSBU 1M25G	1787760000
M 25	w. threading		76	HDC 64D TSBU 1M25G	1786780000
M 32	w. threading		61	HDC 24B TSBU 1M32G	1787750000
M 32	w. threading		76	HDC 64D TSBU 1M32G	1786770000



Plug housing, cable entry at top



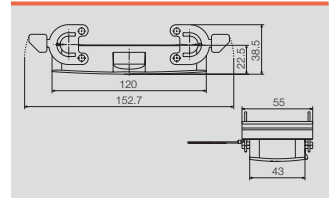
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 24B TOBU 1M25G	1787820000
M 32	w. threading		61	HDC 24B TOBU 1M32G	1787810000
M 32	w. threading		76	HDC 64D TOBU 1M32G	1786830000



Cover



Version	Type	Order No.
For hoods	HDC 24B DMDQ 2QB	1665640000

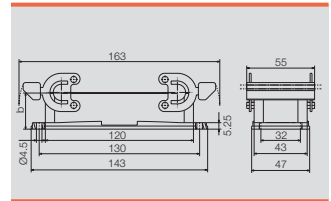


Base

Bulkhead housing



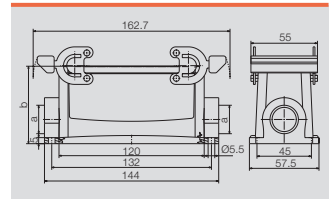
Version	Cover	b (mm)	Type	Order No.
		29.3	HDC 24B ABU	1212400000



Base housing



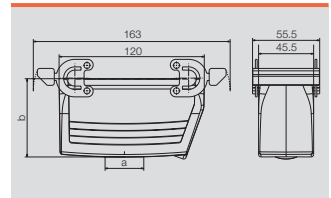
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		64	HDC 24B SBU 2M25G	1787870000
M 25	w. threading		84	HDC 64D SBU 2M25G	1786890000
M 32	w. threading		84	HDC 64D SBU 2M32G	1786880000



Coupling housing



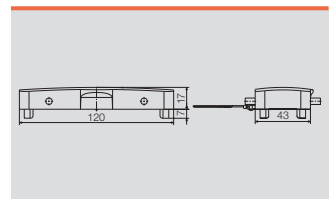
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		65	HDC 24B KBU 1M25G	1787920000
M 32	w. threading		79	HDC 64D KBU 1M32G	1786960000



Cover



Version	Type	Order No.
For bases	HDC 24B DODQ 4B0	1665630000



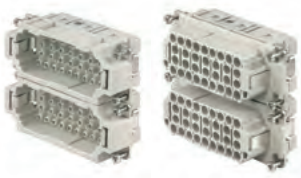
HEE series - high contact density

500 V, 16 A, Size 10

64 + ⊕

Inserts

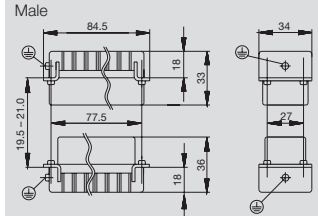
Crimp connection



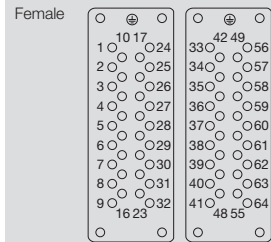
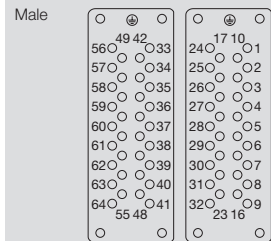
Insert	Type	Order No.
Male	HDC HEE 32 MC	1826790000
Female	HDC HEE 32 FC	1826800000
Male	HDC HEE 32 MC 33-64	1018950000
Female	HDC HEE 32 FC 33-64	1018960000

Note To complete the assembly of the plug-in connector, two inserts are required. We recommend the use of guide pins

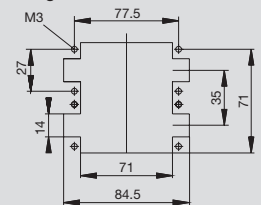
Dimensions



Arrangement of contacts



Mounting cut-out



Accessories

Crimp contacts

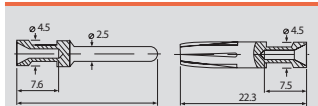
Surface finish gold



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-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
Contact Removal Tool	
Removal Tool HE	1866750000

Housing selection RockStar® IP66
Size 10



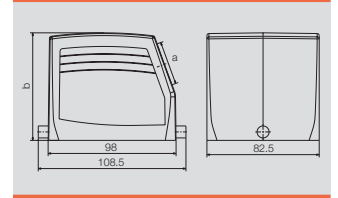
Further housings are available, see
Chapter E for IP66

Hood

Plug housing, cable entry sideways



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

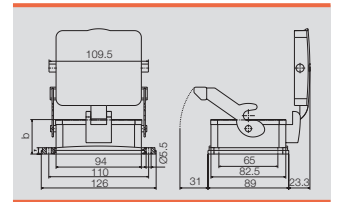


Base

Bulkhead housing



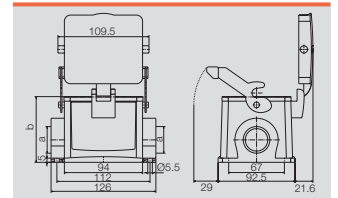
Version	Cover	b (mm)	Type	Order No.
		38	HDC 32B ALU	1219500000
	with cover	55	HDC 32B ADLU	1219800000



Base housing



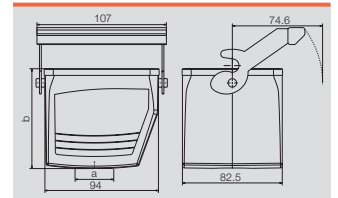
a	Version	Cover	b (mm)	Type	Order No.
M 32	w. threading		79	HDC 32B SLU 2M32G	1788470000
M 32	w. threading	with cover	96	HDC 32B SDLU 2M32G	1788490000



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.



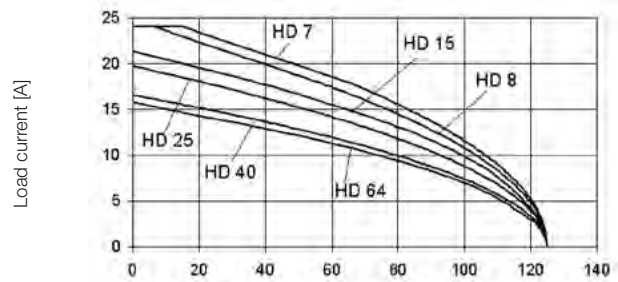
Technical data

Standards / approvals	
Standards	DIN EN 61984 DIN EN 60664-1 DIN EN 175301-801
Approvals	UL/CSA
Inserts	
No. of poles	7, 15, 16, 24, 25, 40, 50, 64, 80, 124 (+PE) 8
Rated voltage	250 V
Rated voltage to UL/CSA	600 V
Rated current	10 A
Rated impulse withstand voltage	4 kV
Pollution severity	3
Insulation resistance	$\geq 10^{10} \Omega$
Material	Glass-fibre reinforced PC (in UL list and approved for railway applications)
Temperature range	-40 °C ... +125 °C
Flammability to UL 94	V-0
Mechanical service life	
- Plugging cycles Ag - Surface	≥ 500
- Plugging cycles Au - Surface	≥ 500
Contact resistance	
Crimp connection	$\leq 4 \text{ m}\Omega$
Contacts / Material	
Sockets and plug-in contact	Copper alloy
Surface	Passivated silver, or 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 PZ 1

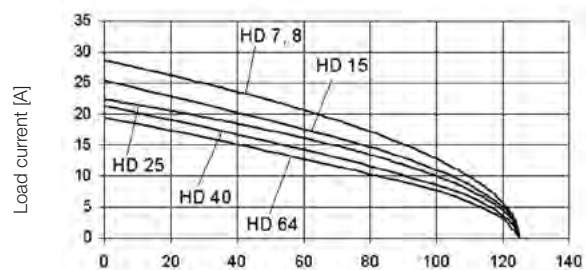
Note: for inserts with 15 or more poles, the earthing (ground) is made with a screw connection. When used properly and as designated, the listed connectors may not be connected or disconnected if there is a live voltage or load! When metal housings are used in conjunction with the HD 7 and HD 8 inserts, the rated voltage must be limited to 42 V. 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 J.

Derating curves



HD crimp turned 1.5 mm² Ambient temperature [°C]



HD crimp turned 1.5 mm² Ambient temperature [°C]

Overview

		Size	Rated voltage	Rated current	No. of poles	Tension clamp connection	Screw conn. with wire guard spring	Crimp connection	PUSH IN connection	Axial screw connection	Page
		1	250 V	10 A	7 + ⊕			•			B.46
		1	42 V	10 A	8			•			B.48
		2	250 V	10 A	15 + ⊕			•			B.50
		3	250 V	10 A	16 + ⊕			•			B.52
		4	250 V	10 A	24 + ⊕			•			B.54
		5	250 V	10 A	25 + ⊕			•			B.56
		6	250 V	10 A	40 + ⊕			•			B.58
		7	250 V	10 A	50 + ⊕			•			B.60
		8	250 V	10 A	64 + ⊕			•			B.62
		10	250 V	10 A	80 + ⊕			•			B.64
		12	250 V	10 A	128 + ⊕			•			B.66

HD series - the flexible connectors

250 V, 10 A, Size 1

7 + ⊕

Inserts

Crimp connection



Insert	Type	Order No.
Male	HDC HD 7 MC	1650570000
Female	HDC HD 7 FC	1650580000

Dimensions

Male

Female

Arrangement of contacts

Male

Female

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
Contact Removal Tool	
REMOVAL TOOL HD	1866730000

Housing selection RockStar® IP66
Size 1



Further housings are available, see
Chapter E for IP66 and Chapter F for IP68

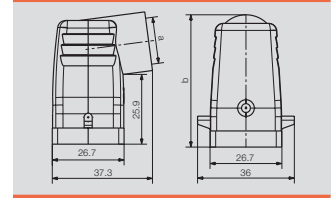
Hood

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

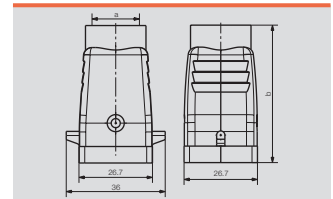


Plug housing, cable entry at top



Material: Plastic

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



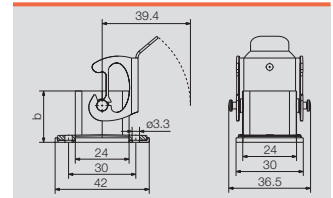
Base

Bulkhead housing



Material: Plastic

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

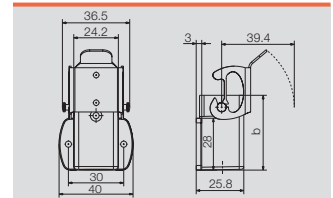


Base housing



Material: Plastic

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

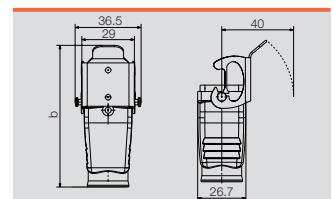


Coupling housing



Material: Plastic

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

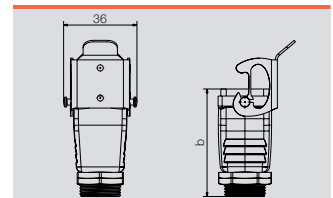


Screw mounting housing



Material: Plastic

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

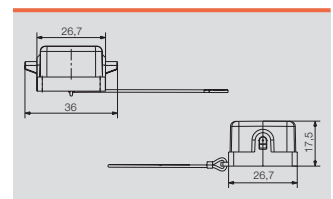


Cover



Material: Plastic

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



HD series - the flexible connectors

42 V, 10 A, Size 1

8

Inserts

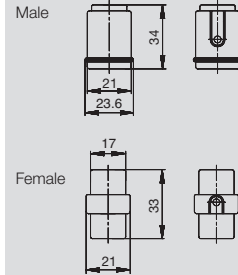
Crimp connection



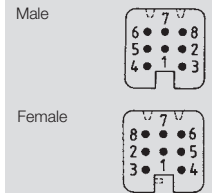
Insert	Type	Order No.
Male	HDC HD 8 MC	1650590000
Female	HDC HD 8 FC	1650600000

Note Reduce the voltage to 42 V when using metal housings

Dimensions



Arrangement of contacts



Accessories

Crimp contacts

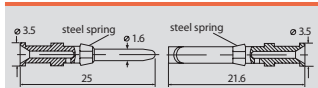
Surface finish gold



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
Contact Removal Tool	
REMOVAL TOOL HD	1866730000

Housing selection RockStar® IP66
Size 1



Further housings are available, see
Chapter E for IP66 and Chapter F for IP68

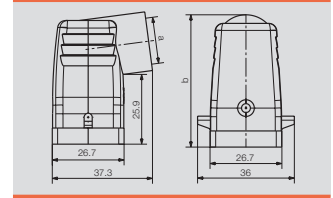
Hood

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

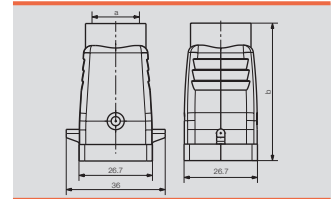


Plug housing, cable entry at top



Material: Plastic

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



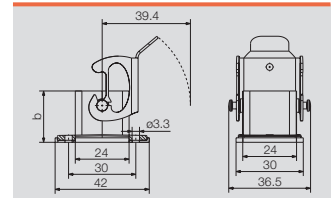
Base

Bulkhead housing



Material: Plastic

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

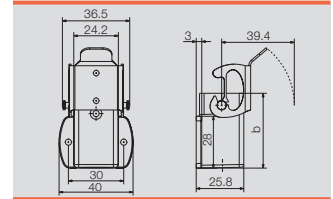


Base housing



Material: Plastic

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

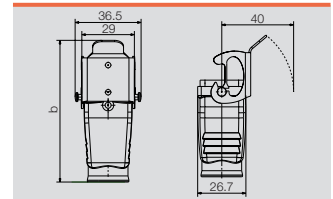


Coupling housing



Material: Plastic

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

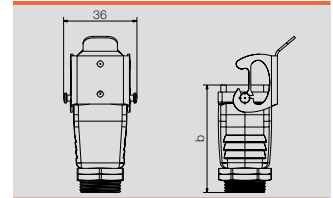


Screw mounting housing



Material: Plastic

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

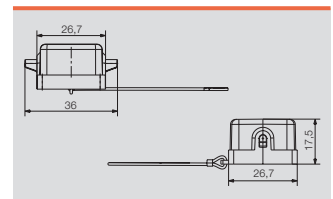


Cover



Material: Plastic

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



HD series - the flexible connectors

250 V, 10 A, Size 2

15 + ⊕

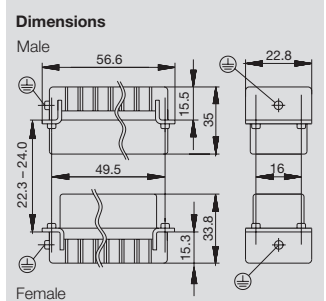
Inserts

Crimp connection

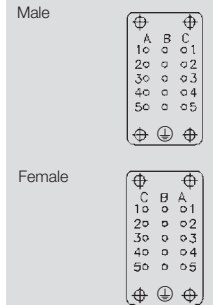


Insert	Type	Order No.
Male	HDC HD 15 MC	1650650000
Female	HDC HD 15 FC	1650660000

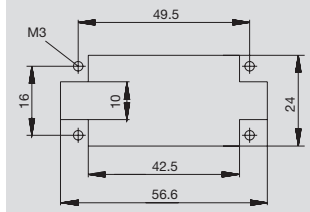
Note When using connectors with high contact density, we recommend the use of guide pins and sockets; see Chapter J



Arrangement of contacts



Mounting cut-out



Accessories

Crimp contacts

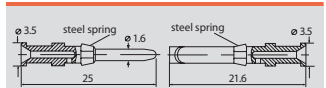
Surface finish gold



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
Contact Removal Tool	
REMOVAL TOOL HD	1866730000

Housing selection RockStar® IP66
Size 2



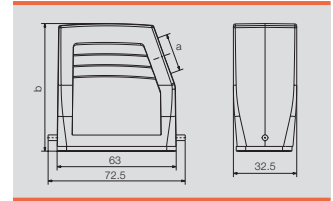
Further housings are available, see
Chapter E for IP66

Hood

Plug housing, cable entry sideways



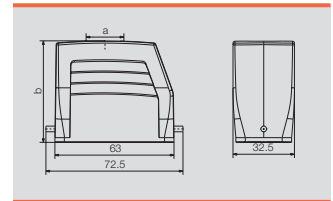
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		68	HDC 15A TSLU 1M20G	1788860000
M 25	w. threading		68	HDC 15A TSLU 1M25G	1788850000



Plug housing, cable entry at top



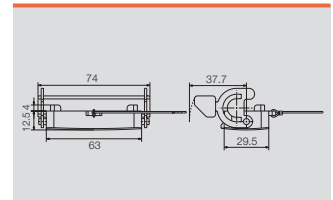
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		54	HDC 10A TOLU 1M20G	1788620000
M 25	w. threading		54	HDC 10A TOLU 1M25G	1788610000



Cover



Version	Type	Order No.
For hoods	HDC 10A DODL 1LB	1665890000

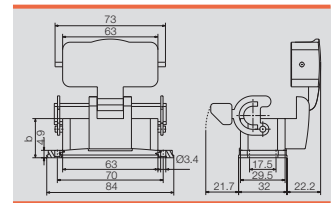


Base

Bulkhead housing



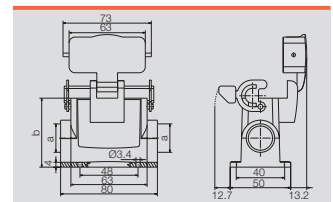
Version	Cover	b (mm)	Type	Order No.
		25	HDC 10A ALU	1664040000
	with cover	37.5	HDC 10A ADLU	1664060000



Base housing



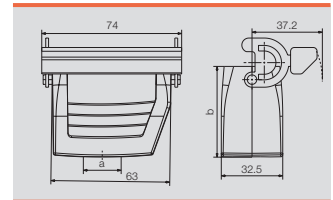
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		57	HDC 10A SLU 2M20G	1788640000
M 20	w. threading	with cover	69.5	HDC 10A SDLU 2M20G	1788660000
M 25	w. threading		57	HDC 10A SLU 2M25G	1788630000
M 25	w. threading	with cover	69.5	HDC 10A SDLU 2M25G	1788650000



Coupling housing



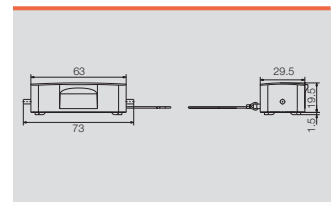
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		48	HDC 10A KLU 1M25G	1788670000



Cover



Version	Type	Order No.
For bases	HDC 10A DMDL 2B0	1665880000



HD series - the flexible connectors

250 V, 10 A, Size 3

16 + ⊕

Inserts

Crimp connection



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

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

Dimensions

Arrangement of contacts

Male

Female

Mounting cut-out

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
Contact Removal Tool	
REMOVAL TOOL HD	1866730000

Housing selection RockStar® IP66
Size 3



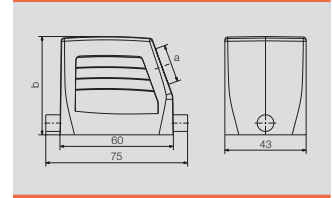
Further housings are available, see
Chapter E for IP66 and Chapter F for IP68

Hood

Plug housing, cable entry sideways



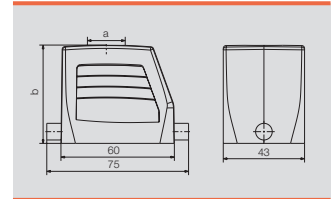
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		52	HDC 06B TSLU 1M20G	1788100000
M 25	w. threading		52	HDC 06B TSLU 1M25G	1788090000
M 25	w. threading		72	HDC 16D TSLU 1M25G	1787480000



Plug housing, cable entry at top



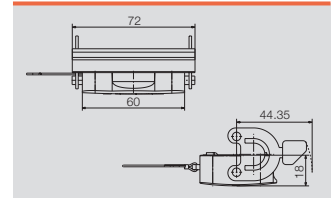
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		52	HDC 06B TOLU 1M20G	1788120000
M 25	w. threading		52	HDC 06B TOLU 1M25G	1788110000
M 25	w. threading		72	HDC 16D TOLU 1M25G	1787500000
M 32	w. threading		72	HDC 16D TOLU 1M32G	1787490000



Cover



Version	Type	Order No.
For hoods	HDC 06B DMDL 1LB	1665210000

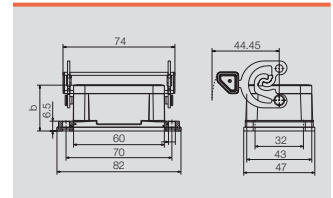


Base

Bulkhead housing



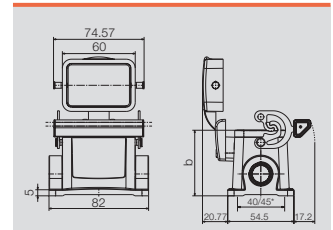
Version	Cover	b (mm)	Type	Order No.
		29	HDC 06B ALU	1202100000
	with cover	47	HDC 06B ADLU	1202500000



Base housing



a	Version	Cover	b (mm)	Type	Order No.
M 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

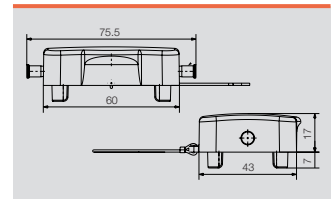


* Mounting dimensions for size-3 base housings, tall shape (16D)

Cover



Version	Type	Order No.
For bases	HDC 06B DODL 2BO	1665200000



HD series - the flexible connectors

250 V, 10 A, Size 4

24 + ⊕

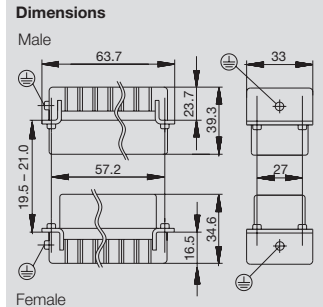
Inserts

Crimp connection

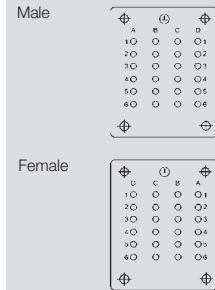


Insert	Type	Order No.
Male	HDC HD 24 MC	1650870000
Female	HDC HD 24 FC	1650890000

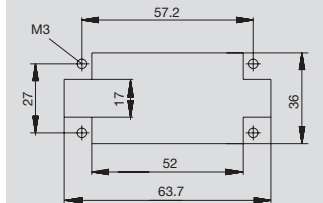
Note When using connectors with high contact density, we recommend the use of guide pins and sockets; see Chapter J



Arrangement of contacts



Mounting cut-out



Accessories

Crimp contacts

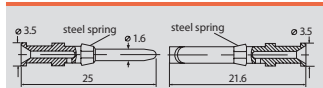
Surface finish gold



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
Contact Removal Tool	
REMOVAL TOOL HD	1866730000

Housing selection RockStar® IP66
Size 4



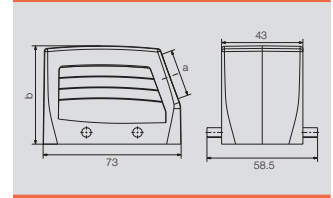
Further housings are available, see
Chapter E for IP66 and Chapter F for IP68

Hood

Plug housing, cable entry sideways



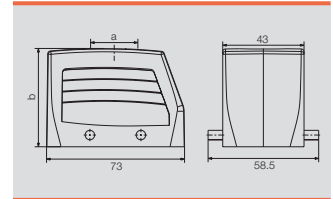
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		52	HDC 10B TSBU 1M20G	1787560000
M 25	w. threading		52	HDC 10B TSBU 1M25G	1787550000
M 25	w. threading		72	HDC 24D TSBU 1M25G	1787240000
M 32	w. threading		72	HDC 24D TSBU 1M32G	1787230000



Plug housing, cable entry at top



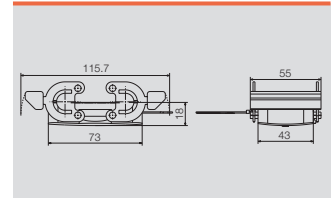
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		52	HDC 10B TOBU 1M20G	1787600000
M 25	w. threading		52	HDC 10B TOBU 1M25G	1787590000
M 25	w. threading		72	HDC 24D TOBU 1M25G	1787300000
M 32	w. threading		72	HDC 24D TOBU 1M32G	1787290000



Cover



Version	Type	Order No.
For hoods	HDC 10B DMDQ 2QB	1665240000

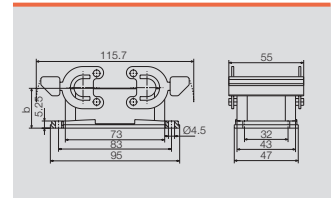


Base

Bulkhead housing



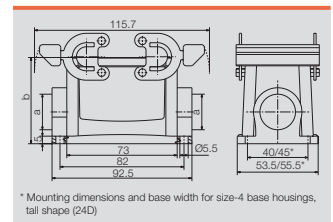
Version	Cover	b (mm)	Type	Order No.
		29.3	HDC 10B ABU	1205000000



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

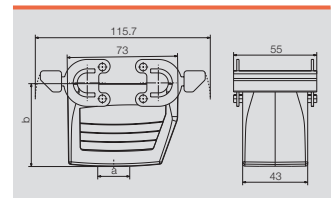


* Mounting dimensions and base width for size-4 base housings, tall shape (24D)

Coupling housing



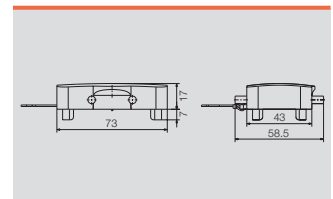
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		55	HDC 10B KBU 1M20G	1787720000



Cover



Version	Type	Order No.
For bases	HDC 10B DODQ 4B0	1665230000



HD series - the flexible connectors

250 V, 10 A, Size 5

25 + ⊕

Inserts

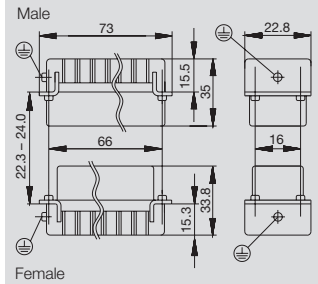
Crimp connection



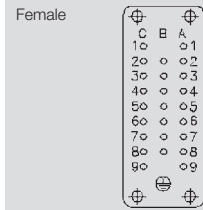
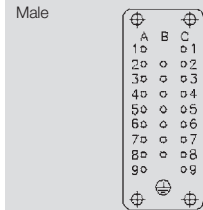
Insert	Type	Order No.
Male	HDC HD 25 MC	1650810000
Female	HDC HD 25 FC	1650820000
Male	HDC HD 25 MC „Z“	1023040000
Female	HDC HD 25 FC „Z“	1023050000

Note We recommend the use of guide pins and sockets.

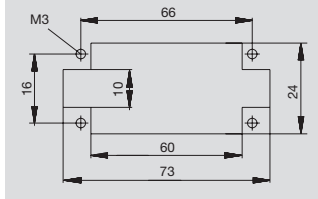
Dimensions



Arrangement of contacts



Mounting cut-out



Accessories

Crimp contacts

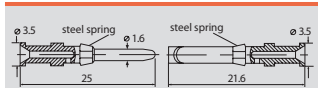
Surface finish gold



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
Contact Removal Tool	
REMOVAL TOOL HD	1866730000

Housing selection RockStar® IP66
Size 5



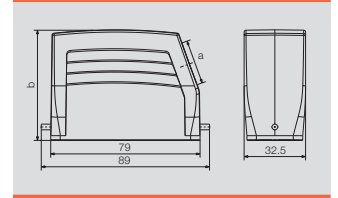
Further housings are available, see
Chapter E for IP66

Hood

Plug housing, cable entry sideways



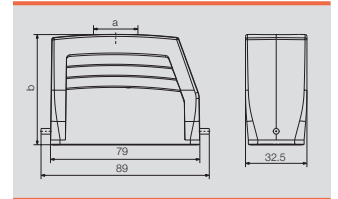
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		72	HDC 25A TSLU 1M20G	1788680000
M 25	w. threading		58	HDC 16A TSLU 1M25G	1788740000
M 25	w. threading		72	HDC 25A TSLU 1M25G	1788690000



Plug housing, cable entry at top



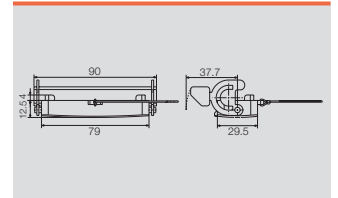
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		72	HDC 25A TOLU 1M20G	1788710000
M 25	w. threading		58	HDC 16A TOLU 1M25G	1788750000
M 25	w. threading		72	HDC 25A TOLU 1M25G	1788700000



Cover



Version	Type	Order No.
For hoods	HDC 16A DODL 1LB	1665900000

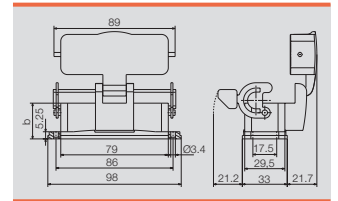


Base

Bulkhead housing



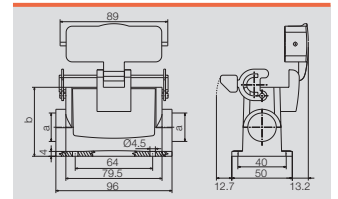
Version	Cover	b (mm)	Type	Order No.
		25	HDC 16A ALU	1664920000
	with cover	44.5	HDC 16A ADLU	1664940000



Base housing



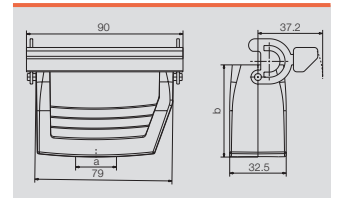
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		57	HDC 16A SLU 2M20G	1788770000
M 20	w. threading	with cover	76.5	HDC 16A SDLU 2M20G	1788790000
M 25	w. threading		57	HDC 16A SLU 2M25G	1788760000
M 25	w. threading	with cover	76.5	HDC 16A SDLU 2M25G	1788780000



Coupling housing



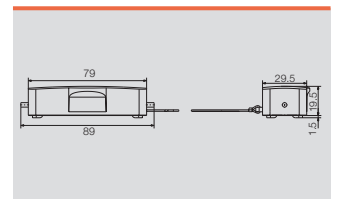
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		53	HDC 16A KLU 1M25G	1788800000



Cover



Version	Type	Order No.
For bases	HDC 16A DMDL 2B0	1665910000



HD series - the flexible connectors

250 V, 10 A, Size 6

40 + ⊕

Inserts

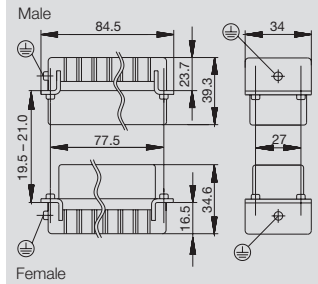
Crimp connection



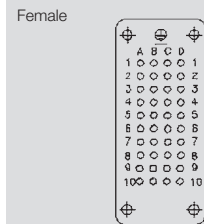
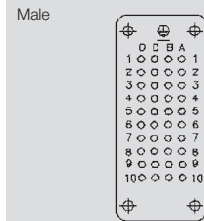
Insert	Type	Order No.
Male	HDC HD 40 MC	1601710000
Female	HDC HD 40 FC	1601730000

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

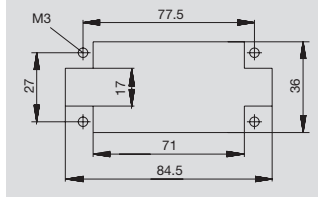
Dimensions



Arrangement of contacts



Mounting cut-out



Accessories

Crimp contacts

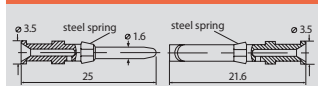
Surface finish gold



Surface finish silver



Male			Female		
Qty.	Type	Order No.	Type	Order No.	Order No.
100	HDC-C-HD-SM0.14-0.37AG	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
Contact Removal Tool	
REMOVAL TOOL HD	1866730000

Housing selection RockStar® IP66
Size 6



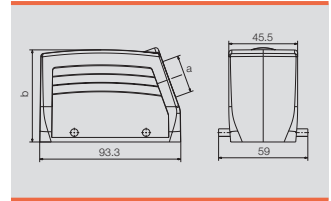
Further housings are available, see
Chapter E for IP66 and Chapter F for IP68

Hood

Plug housing, cable entry sideways



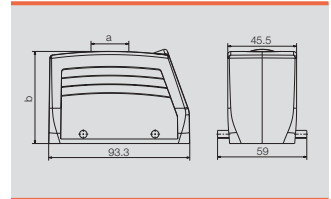
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 16B TSBU 1M25G	1788180000
M 25	w. threading		76	HDC 40D TSBU 1M25G	1787010000
M 32	w. threading		76	HDC 40D TSBU 1M32G	1787000000



Plug housing, cable entry at top



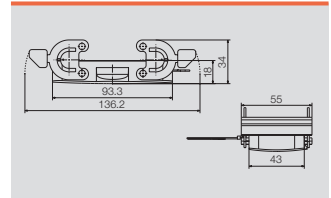
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 16B TOBU 1M25G	1788210000
M 25	w. threading		76	HDC 40D TOBU 1M25G	1787070000
M 32	w. threading		76	HDC 40D TOBU 1M32G	1787060000



Cover



Version	Type	Order No.
For hoods	HDC 16B DMDQ 2QB	1665270000

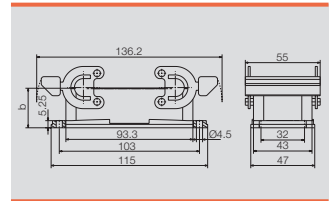


Base

Bulkhead housing



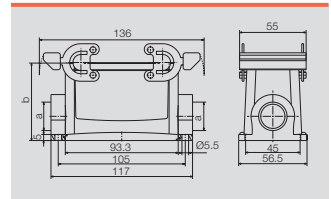
Version	Cover	b (mm)	Type	Order No.
		29	HDC 16B ABU	1208600000



Base housing



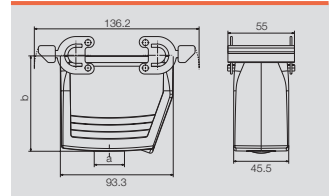
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		64	HDC 16B SBU 2M25G	1788240000
M 25	w. threading		84	HDC 40D SBU 2M25G	1787120000
M 32	w. threading		84	HDC 40D SBU 2M32G	1787110000



Coupling housing



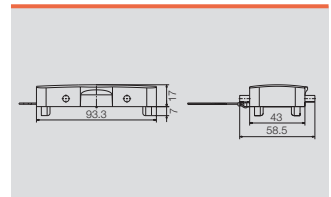
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		79	HDC 40D KBU 1M25G	1787200000
M 32	w. threading		79	HDC 40D KBU 1M32G	1787190000



Cover



Version	Type	Order No.
For bases	HDC 16B DODQ 4B0	1665260000



HD series - the flexible connectors

250 V, 10 A, Size 7

50 + ⊕

Inserts

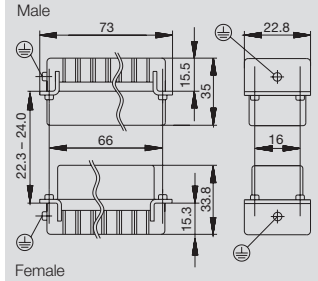
Crimp connection



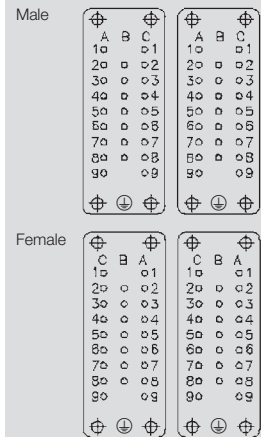
Insert	Type	Order No.
Male	HDC HD 25 MC	1650810000
Female	HDC HD 25 FC	1650820000

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

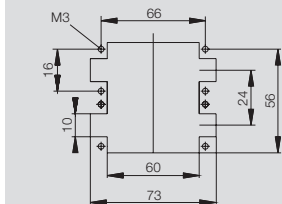
Dimensions



Arrangement of contacts



Mounting cut-out



Accessories

Crimp contacts

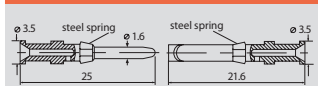
Surface finish gold



Surface finish silver



Male			Female		
Qty.	Type	Order No.	Type	Order No.	Order No.
100	HDC-C-HD-SM0.14-0.37AG	1651620000	HDC-C-HD-BM0.14-0.37AU	1651670000	
100	HDC-C-HD-SM0.5AG	1651630000	HDC-C-HD-BM0.5AU	1651680000	
100	HDC-C-HD-SM0.75-1.00AG	1651640000	HDC-C-HD-BM0.75-1.00AU	1651690000	
100	HDC-C-HD-SM1.5AG	1651650000	HDC-C-HD-BM1.5AU	1651700000	
100	HDC-C-HD-SM2.5AG	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
Contact Removal Tool	
REMOVAL TOOL HD	1866730000

Housing selection RockStar® IP66
Size 7



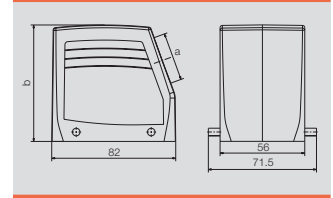
Further housings are available, see
Chapter E for IP66

Hood

Plug housing, cable entry sideways



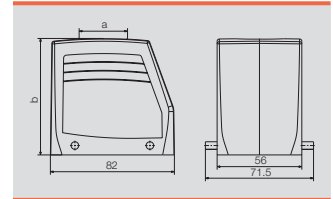
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		75	HDC 32A TSBU 1M25G	1787960000
M 32	w. threading		75	HDC 32A TSBU 1M32G	1787950000



Plug housing, cable entry at top



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

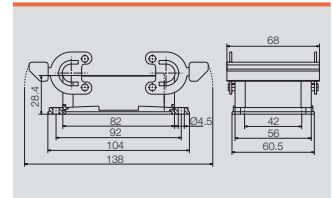


Base

Bulkhead housing



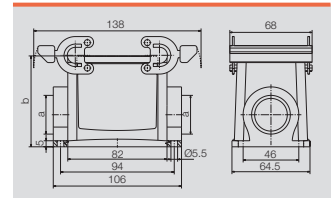
Version	Cover	b (mm)	Type	Order No.
		28.4	HDC 32A ABU	1665860000



Base housing



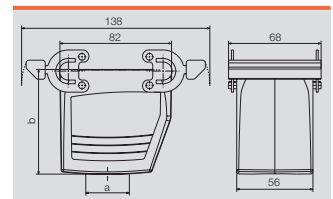
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		75	HDC 32A SBU 2M25G	1788040000



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



HD series - the flexible connectors

250 V, 10 A, Size 8

64 + ⊕

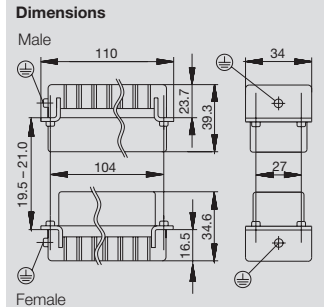
Inserts

Crimp connection

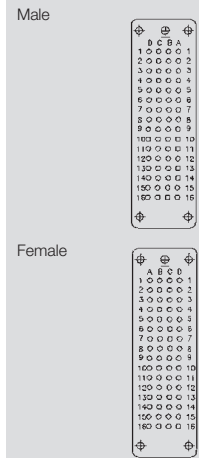


Insert	Type	Order No.
Male	HDC HD 64 MC	1601720000
Female	HDC HD 64 FC	1601740000

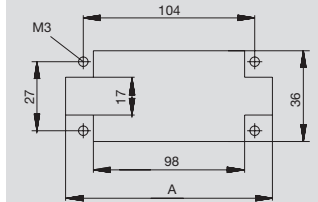
Note Please use this insert type doubled for size 12 (128-pole). We recommend the use of guide pins and sockets.



Arrangement of contacts



Mounting cut-out



Accessories

Crimp contacts

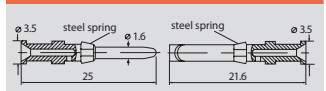
Surface finish gold



Surface finish silver



Male			Female		
Qty.	Type	Order No.	Type	Order No.	Order No.
100	HDC-C-HD-SM0.14-0.37AG	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
Contact Removal Tool	
REMOVAL TOOL HD	1866730000

Housing selection RockStar® IP66
Size 8



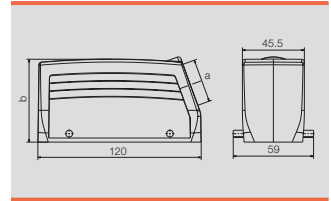
Further housings are available, see
Chapter E for IP66 and Chapter F for IP68

Hood

Plug housing, cable entry sideways



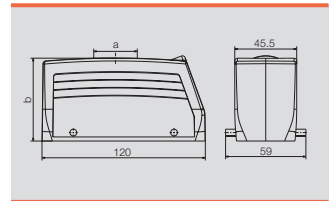
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 24B TSBU 1M25G	1787760000
M 25	w. threading		76	HDC 64D TSBU 1M25G	1786780000
M 32	w. threading		61	HDC 24B TSBU 1M32G	1787750000
M 32	w. threading		76	HDC 64D TSBU 1M32G	1786770000



Plug housing, cable entry at top



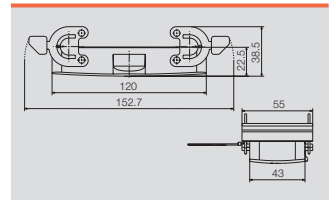
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 24B TOBU 1M25G	1787820000
M 32	w. threading		61	HDC 24B TOBU 1M32G	1787810000
M 32	w. threading		76	HDC 64D TOBU 1M32G	1786830000



Cover



Version	Type	Order No.
For hoods	HDC 24B DMDQ 2QB	1665640000

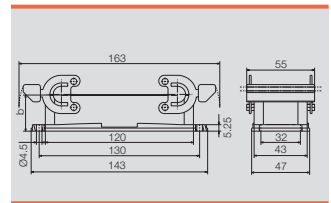


Base

Bulkhead housing



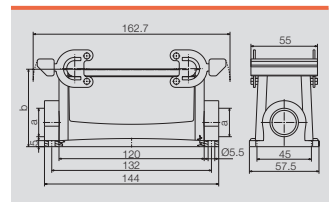
Version	Cover	b (mm)	Type	Order No.
		29,3	HDC 24B ABU	1212400000



Base housing



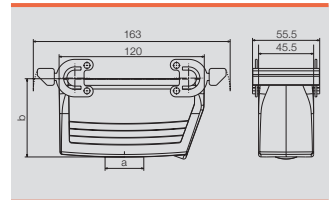
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		64	HDC 24B SBU 2M25G	1787870000
M 25	w. threading		84	HDC 64D SBU 2M25G	1786890000
M 32	w. threading		84	HDC 64D SBU 2M32G	1786880000



Coupling housing



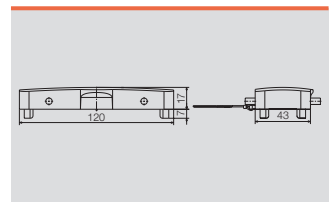
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		65	HDC 24B KBU 1M25G	1787920000
M 32	w. threading		79	HDC 64D KBU 1M32G	1786960000



Cover



Version	Type	Order No.
For bases	HDC 24B DODQ 4B0	1665630000



HD series - the flexible connectors

250 V, 10 A, Size 10

80 + ⊕

Inserts

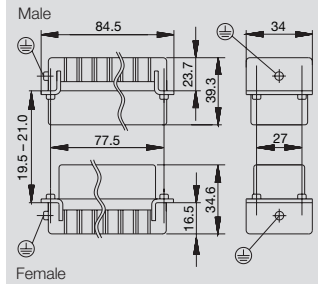
Crimp connection



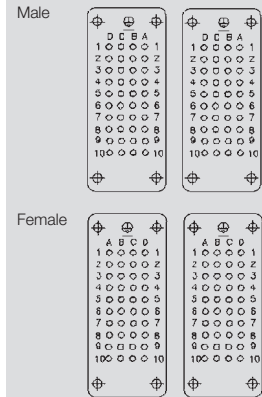
Insert	Type	Order No.
Male	HDC HD 40 MC	1601710000
Female	HDC HD 40 FC	1601730000

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

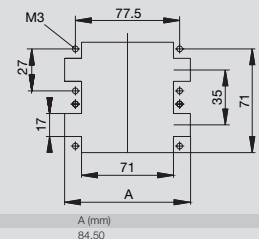
Dimensions



Arrangement of contacts



Mounting cut-out



Accessories

Crimp contacts

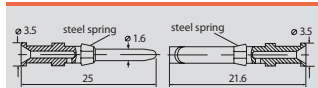
Surface finish gold



Surface finish silver



Male			Female		
Qty.	Type	Order No.	Type	Order No.	Order No.
100	HDC-C-HD-SM0.14-0.37AG	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
Contact Removal Tool	
REMOVAL TOOL HD	1866730000

Housing selection RockStar® IP66
Size 10



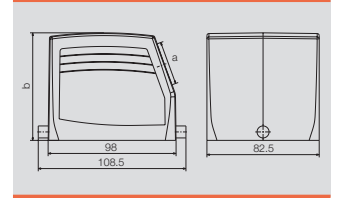
Further housings are available, see
Chapter E for IP66

Hood

Plug housing, cable entry sideways



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

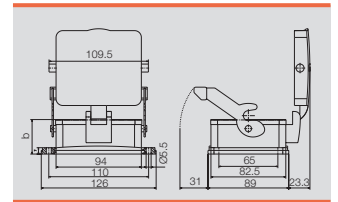


Base

Bulkhead housing



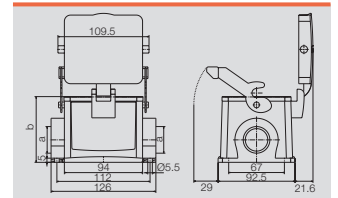
Version	Cover	b (mm)	Type	Order No.
		38	HDC 32B ALU	1219500000
	with cover	55	HDC 32B ADLU	1219800000



Base housing



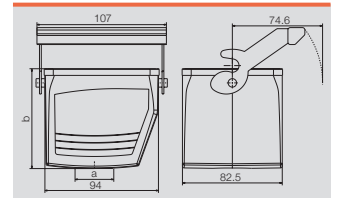
a	Version	Cover	b (mm)	Type	Order No.
M 32	w. threading		79	HDC 32B SLU 2M32G	1788470000
M 32	w. threading	with cover	96	HDC 32B SDLU 2M32G	1788490000



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

250 V, 10 A, Size 12

128 + ⊕

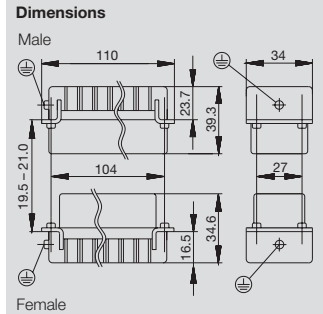
Inserts

Crimp connection

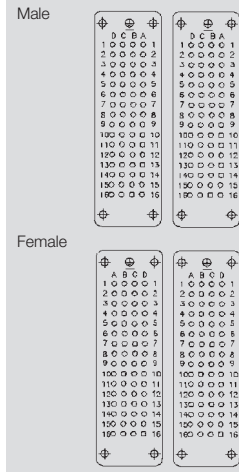


Insert	Type	Order No.
Male	HDC HD 64 MC	1601720000
Female	HDC HD 64 FC	1601740000

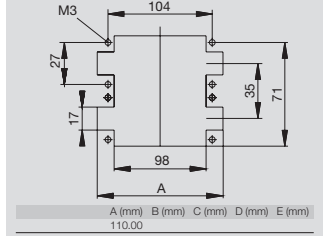
Note Please use this insert type doubled for size 12 (128-pole). We recommend the use of guide pins and sockets.



Arrangement of contacts



Mounting cut-out



Accessories

Crimp contacts

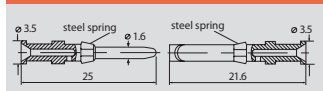
Surface finish gold



Surface finish silver



Male			Female		
Qty.	Type	Order No.	Type	Order No.	Order No.
100	HDC-C-HD-SM0.14-0.37AG	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
Contact Removal Tool	
REMOVAL TOOL HD	1866730000

Housing selection RockStar® IP66
Size 12



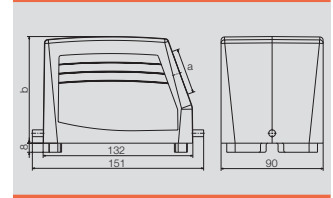
Further housings are available, see
Chapter E for IP66

Hood

Plug housing, cable entry sideways



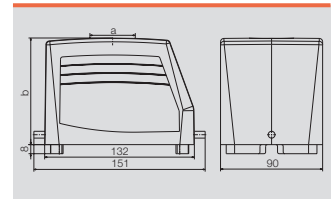
a	Version	Cover	b (mm)	Type	Order No.
M 32	w. threading		94	HDC 48B TSLU 1M32G	1788320000
M 40	w. threading		94	HDC 48B TSLU 1M40G	1788310000
M 50	w. threading		94	HDC 48B TSLU 1M50G	1788300000



Plug housing, cable entry at top

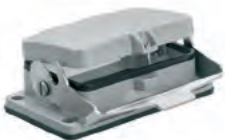


a	Version	Cover	b (mm)	Type	Order No.
M 32	w. threading		94	HDC 48B TOLU 1M32G	1788350000
M 50	w. threading		94	HDC 48B TOLU 1M50G	1788330000

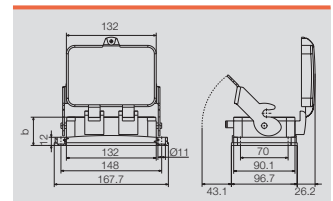


Base

Bulkhead housing



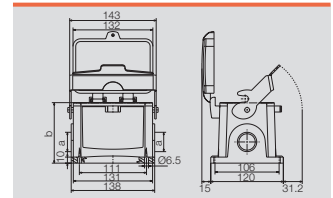
Version	Cover	b (mm)	Type	Order No.
	with cover	62	HDC 48B ADLU	1222900000



Base housing

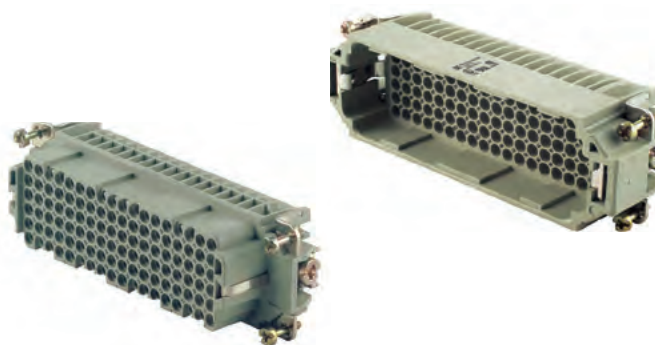


a	Version	Cover	b (mm)	Type	Order No.
M 32	w. threading		100	HDC 48B SLU 2M32G	1788370000
M 32	w. threading	with cover	120	HDC 48B SDLU 2M32G	1788390000
M 40	w. threading		100	HDC 48B SLU 2M40G	1788360000



HDD series – the compact connectors

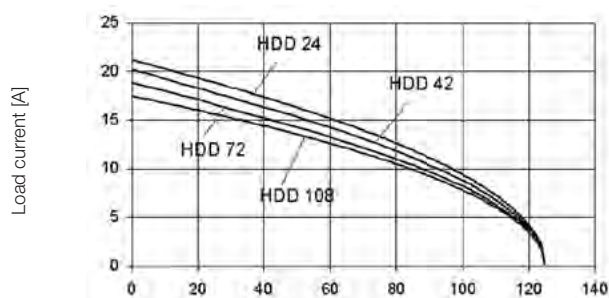
The HDD series with turned contacts is designed for many poles in a small space. The compact housing design saves the user space without compromising the number of poles.



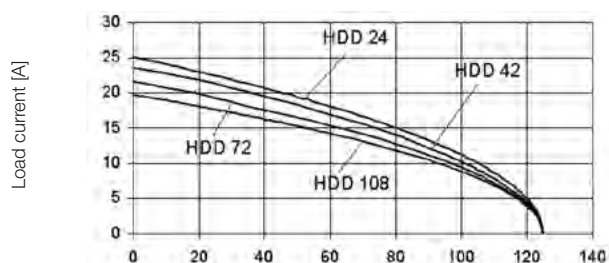
Technical data

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 ... +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 PZ 1

Derating curves















HDD 1.5 mm² Ambient temperature [°C]



HDD 2.5 mm² Ambient temperature [°C]

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	Screw conn. with wire guard spring	Crimp connection	PUSH IN connection	Axial screw connection	Page
		3	250 V	10 A	24 + ⊕			•			B.70
		4	250 V	10 A	42 + ⊕			•			B.72
		6	250 V	10 A	72 + ⊕			•			B.74
		8	250 V	10 A	108 + ⊕			•			B.76
		10	250 V	10 A	144 + ⊕			•			B.78
		12	250 V	10 A	216 + ⊕			•			B.80

HDD series - the compact connectors

250 V, 10 A, Size 3

24 + ⊕

Inserts

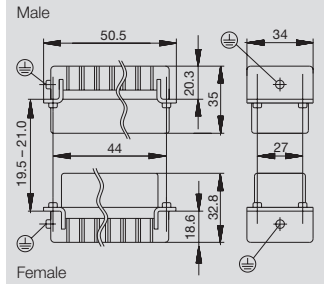
Crimp connection



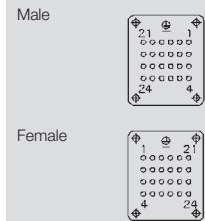
Insert	Type	Order No.
Male	HDC HDD 24 MC	1651150000
Female	HDC HDD 24 FC	1651160000

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

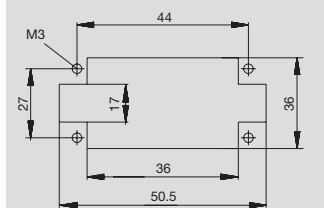
Dimensions



Arrangement of contacts



Mounting cut-out



Accessories

Crimp contacts

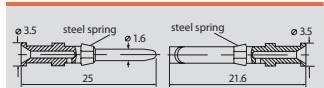
Surface finish gold



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
Contact Removal Tool	
REMOVAL TOOL HD	1866730000

Housing selection RockStar® IP66
Size 3



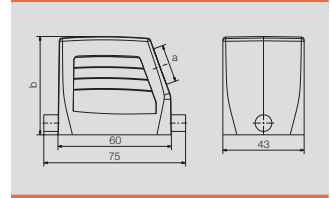
Further housings are available, see
Chapter E for IP66 and Chapter F for IP68

Hood

Plug housing, cable entry sideways



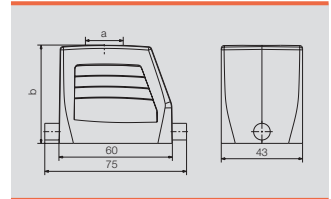
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		52	HDC 06B TSLU 1M20G	1788100000
M 25	w. threading		52	HDC 06B TSLU 1M25G	1788090000
M 25	w. threading		72	HDC 16D TSLU 1M25G	1787480000



Plug housing, cable entry at top



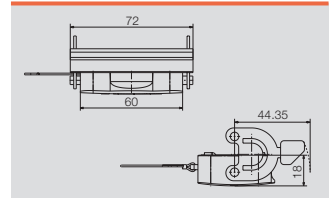
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		52	HDC 06B TOLU 1M20G	1788120000
M 25	w. threading		52	HDC 06B TOLU 1M25G	1788110000
M 25	w. threading		72	HDC 16D TOLU 1M25G	1787500000
M 32	w. threading		72	HDC 16D TOLU 1M32G	1787490000



Cover



Version	Type	Order No.
For hoods	HDC 06B DMDL 1LB	1665210000

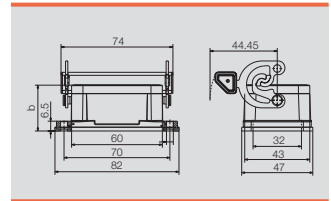


Base

Bulkhead housing



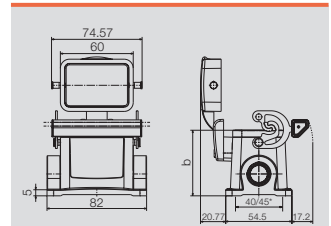
Version	Cover	b (mm)	Type	Order No.
		29	HDC 06B ALU	1202100000
	with cover	47	HDC 06B ADLU	1202500000



Base housing



a	Version	Cover	b (mm)	Type	Order No.
M 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

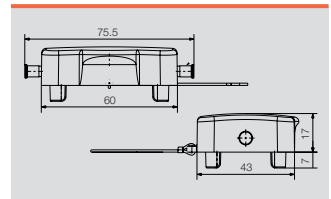


* Mounting dimensions for size-3 base housings, tall shape (16D)

Cover



Version	Type	Order No.
For bases	HDC 06B DODL 2BO	1665200000



HDD series - the compact connectors

250 V, 10 A, Size 4

42 + ⊕

Inserts

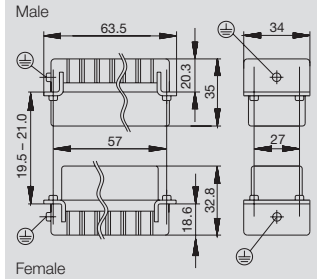
Crimp connection



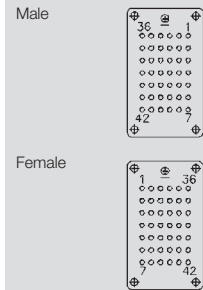
Insert	Type	Order No.
Male	HDC HDD 42 MC	1651170000
Female	HDC HDD 42 FC	1651180000

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

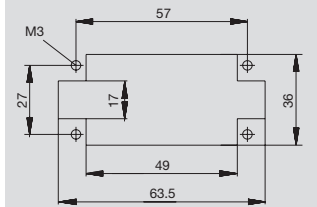
Dimensions



Arrangement of contacts



Mounting cut-out



Accessories

Crimp contacts

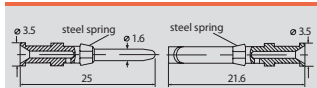
Surface finish gold



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
Contact Removal Tool	
REMOVAL TOOL HD	1866730000

Housing selection RockStar® IP66
Size 4



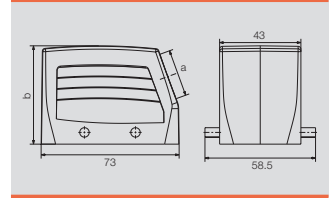
Further housings are available, see
Chapter E for IP66 and Chapter F for IP68

Hood

Plug housing, cable entry sideways



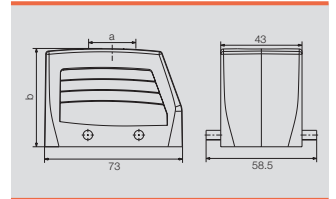
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		52	HDC 10B TSBU 1M20G	1787560000
M 25	w. threading		52	HDC 10B TSBU 1M25G	1787550000
M 25	w. threading		72	HDC 24D TSBU 1M25G	1787240000
M 32	w. threading		72	HDC 24D TSBU 1M32G	1787230000



Plug housing, cable entry at top



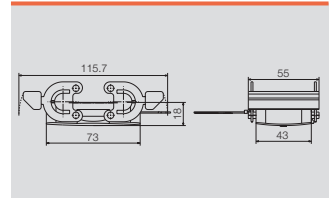
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		52	HDC 10B TOBU 1M20G	1787600000
M 25	w. threading		52	HDC 10B TOBU 1M25G	1787590000
M 25	w. threading		72	HDC 24D TOBU 1M25G	1787300000
M 32	w. threading		72	HDC 24D TOBU 1M32G	1787290000



Cover



Version	Type	Order No.
For hoods	HDC 10B DMDQ 2QB	1665240000

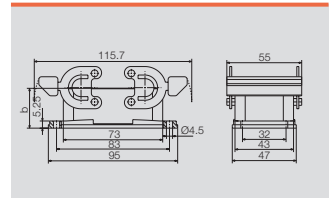


Base

Bulkhead housing



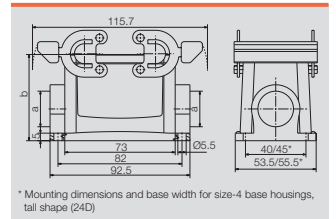
Version	Cover	b (mm)	Type	Order No.
		29,3	HDC 10B ABU	1205000000



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

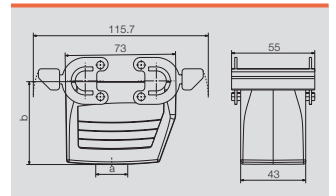


* Mounting dimensions and base width for size-4 base housings, tall shape (24D)

Coupling housing



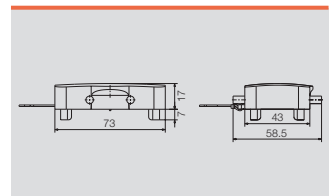
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		55	HDC 10B KBU 1M20G	1787720000



Cover



Version	Type	Order No.
For bases	HDC 10B DODQ 4B0	1665230000



HDD series - the compact connectors

250 V, 10 A, Size 6

72 + ⊕

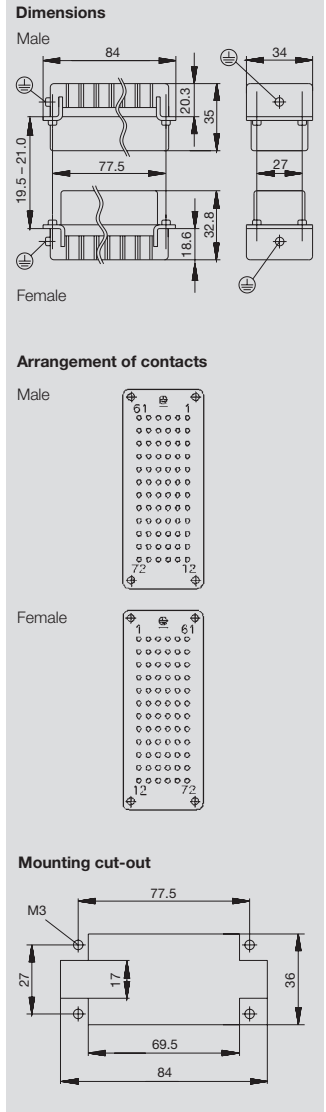
Inserts

Crimp connection



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

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



Accessories

Crimp contacts

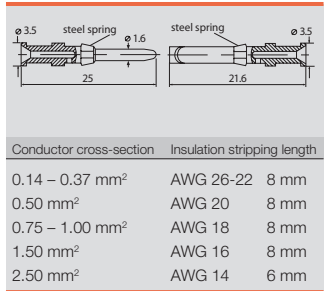
Surface finish gold



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	



Tools



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

Housing selection RockStar® IP66

Size 6



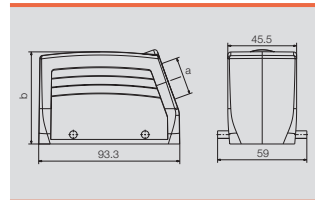
Further housings are available, see Chapter E for IP66 and Chapter F for IP68

Hood

Plug housing, cable entry sideways



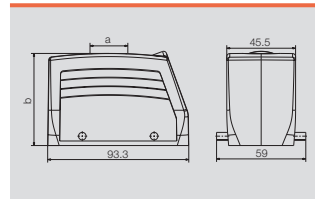
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 16B TSBU 1M25G	1788180000
M 25	w. threading		76	HDC 40D TSBU 1M25G	1787010000
M 32	w. threading		76	HDC 40D TSBU 1M32G	1787000000



Plug housing, cable entry at top



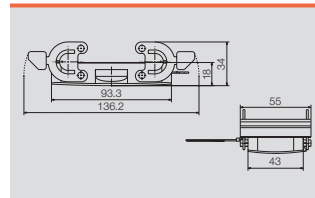
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 16B TOBU 1M25G	1788210000
M 25	w. threading		76	HDC 40D TOBU 1M25G	1787070000
M 32	w. threading		76	HDC 40D TOBU 1M32G	1787060000



Cover



Version	Type	Order No.
For hoods	HDC 16B DMDQ 2QB	1665270000

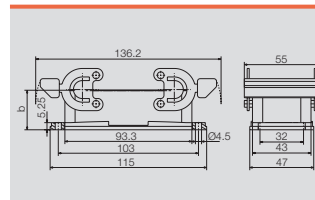


Base

Bulkhead housing



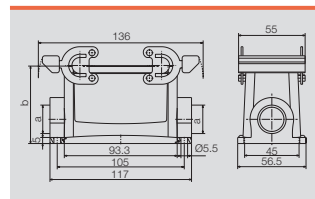
Version	Cover	b (mm)	Type	Order No.
		29	HDC 16B ABU	1208600000



Base housing



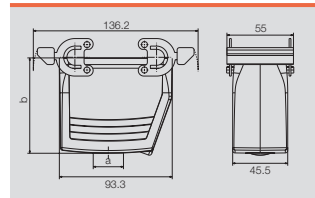
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		64	HDC 16B SBU 2M25G	1788240000
M 25	w. threading		84	HDC 40D SBU 2M25G	1787120000
M 32	w. threading		84	HDC 40D SBU 2M32G	1787110000



Coupling housing



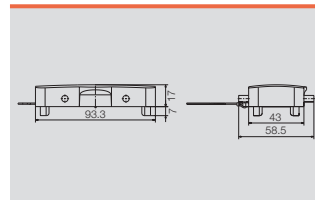
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		79	HDC 40D KBU 1M25G	1787200000
M 32	w. threading		79	HDC 40D KBU 1M32G	1787190000



Cover



Version	Type	Order No.
For bases	HDC 16B DODQ 4B0	1665260000



HDD series - the compact connectors

250 V, 10 A, Size 8

108 + ⊕

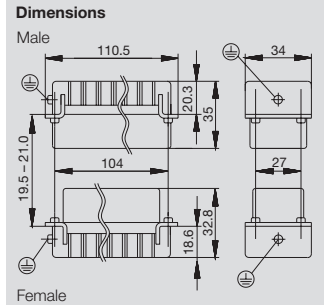
Inserts

Crimp connection

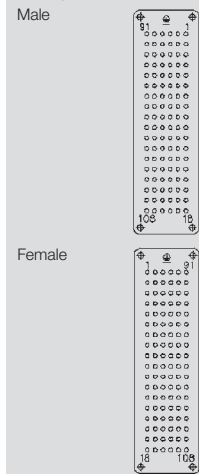


Insert	Type	Order No.
Male	HDC HDD 108 MC	1651210000
Female	HDC HDD 108 FC	1651220000

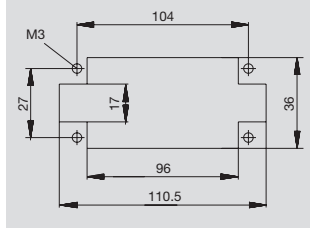
Note When using connectors with high contact density, we recommend the use of guide pins and sockets; see Chapter J



Arrangement of contacts



Mounting cut-out



Accessories

Crimp contacts

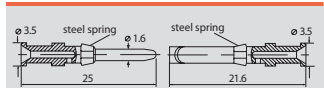
Surface finish gold



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
Contact Removal Tool	
REMOVAL TOOL HD	1866730000

Housing selection RockStar® IP66
Size 8



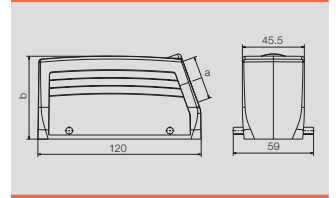
Further housings are available, see
Chapter E for IP66 and Chapter F for IP68

Hood

Plug housing, cable entry sideways



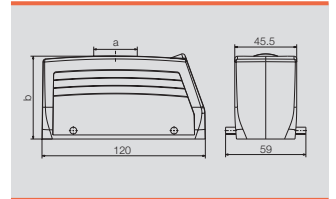
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 24B TSBU 1M25G	1787760000
M 25	w. threading		76	HDC 64D TSBU 1M25G	1786780000
M 32	w. threading		61	HDC 24B TSBU 1M32G	1787750000
M 32	w. threading		76	HDC 64D TSBU 1M32G	1786770000



Plug housing, cable entry at top



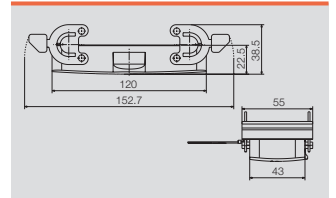
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 24B TOBU 1M25G	1787820000
M 32	w. threading		61	HDC 24B TOBU 1M32G	1787810000
M 32	w. threading		76	HDC 64D TOBU 1M32G	1786830000



Cover



Version	Type	Order No.
For hoods	HDC 24B DMDQ 2QB	1665640000

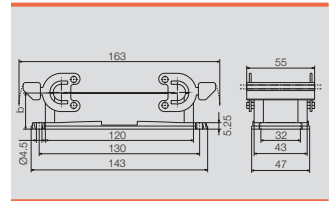


Base

Bulkhead housing



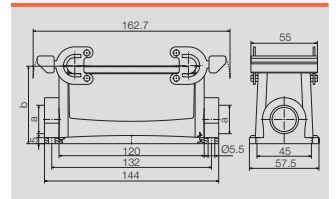
Version	Cover	b (mm)	Type	Order No.
		29.3	HDC 24B ABU	1212400000



Base housing



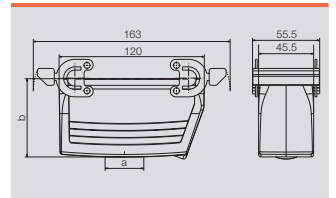
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		64	HDC 24B SBU 2M25G	1787870000
M 25	w. threading		84	HDC 64D SBU 2M25G	1786890000
M 32	w. threading		84	HDC 64D SBU 2M32G	1786880000



Coupling housing



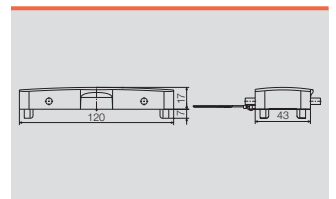
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		65	HDC 24B KBU 1M25G	1787920000
M 32	w. threading		79	HDC 64D KBU 1M32G	1786960000



Cover



Version	Type	Order No.
For bases	HDC 24B DODQ 4B0	1665630000



HDD series - the compact connectors

250 V, 10 A, Size 10

144 + ⊕

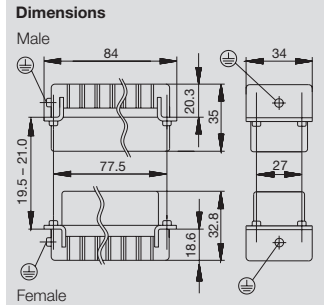
Inserts

Crimp connection

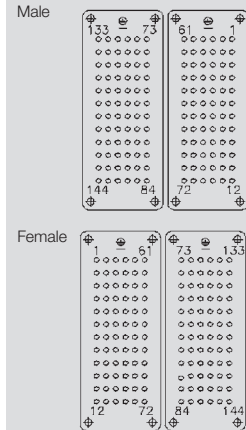


Insert	Type	Order No.
Male	HDC HDD 72 MC	1651190000
Female	HDC HDD 72 FC	1651200000
Male	HDC HDD 72 MC 73-144	1651240000
Female	HDC HDD 72 FC 73-144	1651260000

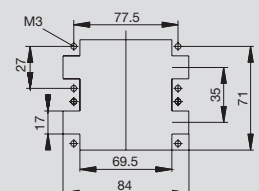
Note To complete the assembly of the plug-in connector, two inserts are required. We recommend the use of guide pins and sockets.



Arrangement of contacts



Mounting cut-out



Accessories

Crimp contacts

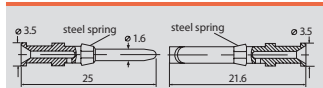
Surface finish gold



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
Contact Removal Tool	
REMOVAL TOOL HD	1866730000

Housing selection RockStar® IP66
Size 10



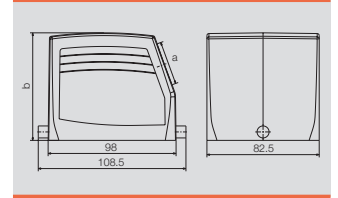
Further housings are available, see
Chapter E for IP66

Hood

Plug housing, cable entry sideways



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

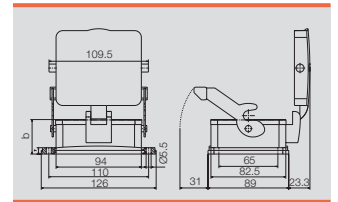


Base

Bulkhead housing



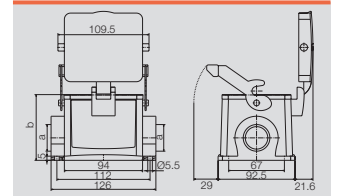
Version	Cover	b (mm)	Type	Order No.
		38	HDC 32B ALU	1219500000
	with cover	55	HDC 32B ADLU	1219800000



Base housing



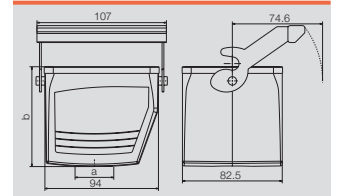
a	Version	Cover	b (mm)	Type	Order No.
M 32	w. threading		79	HDC 32B SLU 2M32G	1788470000
M 32	w. threading	with cover	96	HDC 32B SDLU 2M32G	1788490000



Coupling housing



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



HDD series - the compact connectors

250 V, 10 A, Size 12

216 + ⊕

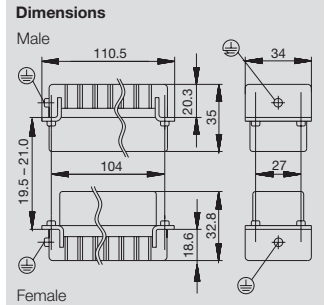
Inserts

Crimp connection

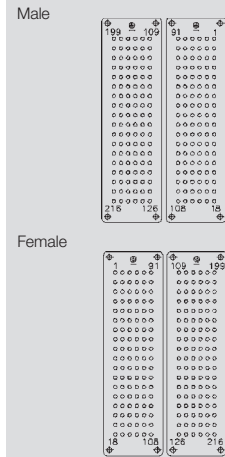


Insert	Type	Order No.
Male	HDC HDD 108 MC	1651210000
Female	HDC HDD 108 FC	1651220000
Male	HDC HDD 108 MC 109-216	1651280000
Female	HDC HDD 108 FC 109-216	1651300000

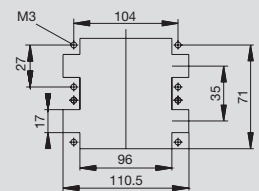
Note To complete the assembly of the plug-in connector, two inserts are required. We recommend the use of guide pins and sockets.



Arrangement of contacts



Mounting cut-out



Accessories

Crimp contacts

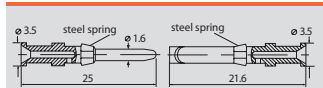
Surface finish gold



Surface finish silver



Male			Female		
Qty.	Type	Order No.	Type	Order No.	Order No.
100	HDC-C-HD-SM0.14-0.37AG	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
Contact Removal Tool	
REMOVAL TOOL HD	1866730000

Housing selection RockStar® IP66
Size 12



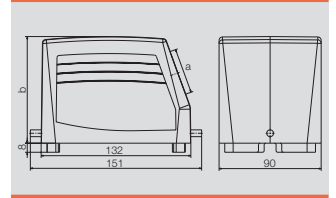
Further housings are available, see
Chapter E for IP66

Hood

Plug housing, cable entry sideways



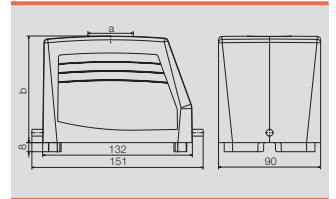
a	Version	Cover	b (mm)	Type	Order No.
M 32	w. threading		94	HDC 48B TSLU 1M32G	1788320000
M 40	w. threading		94	HDC 48B TSLU 1M40G	1788310000
M 50	w. threading		94	HDC 48B TSLU 1M50G	1788300000



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

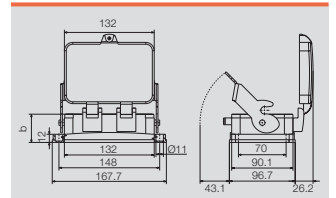


Base

Bulkhead housing



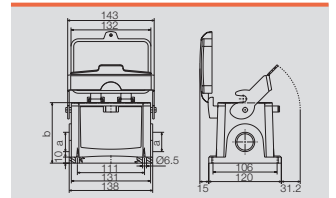
Version	Cover	b (mm)	Type	Order No.
	with cover	62	HDC 48B ADLU	1222900000



Base housing

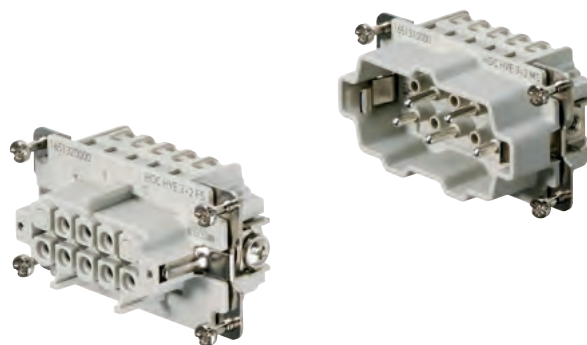


a	Version	Cover	b (mm)	Type	Order No.
M 32	w. threading		100	HDC 48B SLU 2M32G	1788370000
M 32	w. threading	with cover	120	HDC 48B SDLU 2M32G	1788390000
M 40	w. threading		100	HDC 48B SLU 2M40G	1788360000



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	$\geq 10^{10} \Omega$
Material	Glass-fibre reinforced PC (in UL list and approved for railway applications)
Temperature range	-40 °C ... +125 °C
Flammability to UL 94	V-0
Mechanical service life	
- Plugging cycles Ag - Surface	≥ 500
Contact resistance	$\leq 2 \text{ m}\Omega$
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 PZ 0
- 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 PZ 1

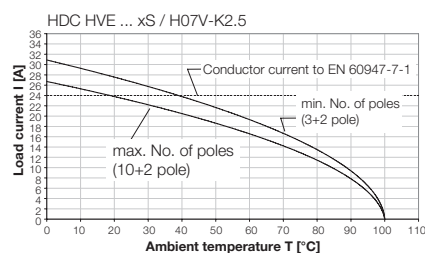
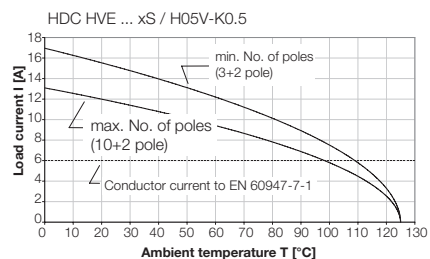
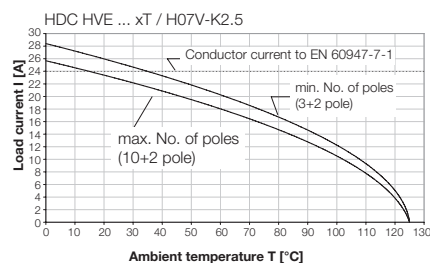
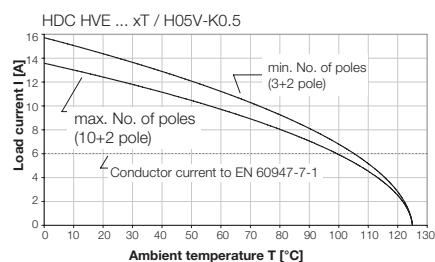
Note: When used properly and as designated, the listed connectors may not be connected or disconnected if there is a live voltage or load!

Rated voltage determined on the basis of DIN EN 61984 section 6.19.2.2.







500 V for signal contact.

** For screw connection

Derating curves



Overview

		Size	Rated voltage	Rated current	No. of poles	Tension clamp connection	Screw conn. with wire guard spring	Crimp connection	PUSH IN connection	Axial screw connection	Page
		4	830 V	20 A	3 + 2 + ⊥	•	•				B.84
		6	830 V	20 A	6 + 2 + ⊥	•	•				B.86
		8	830 V	20 A	10 + 2 + ⊥	•	•				B.88

HVE series - exciting voltage

830 V, 20 A, Size 4

3 + 2 + ⊕

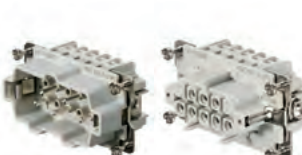
Inserts

Tension clamp connection



Insert	Type	Order No.
Male	HDC HVE 3+2 MT CtH	1967230000
Female	HDC HVE 3+2 FT CtH	1967220000

Screw connection



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

Dimensions

Arrangement of contacts

○ switch contact
● operating contact

Mounting cut-out

Housing selection RockStar® IP66
Size 4



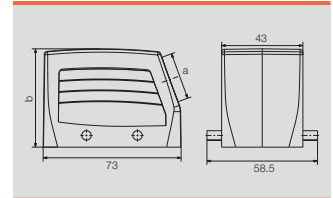
Further housings are available, see
Chapter E for IP66 and Chapter F for IP68

Hood

Plug housing, cable entry sideways



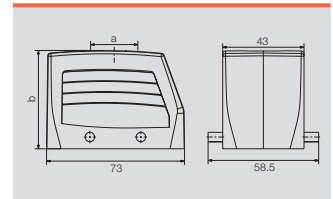
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		52	HDC 10B TSBU 1M20G	1787560000
M 25	w. threading		52	HDC 10B TSBU 1M25G	1787550000
M 25	w. threading		72	HDC 24D TSBU 1M25G	1787240000
M 32	w. threading		72	HDC 24D TSBU 1M32G	1787230000



Plug housing, cable entry at top



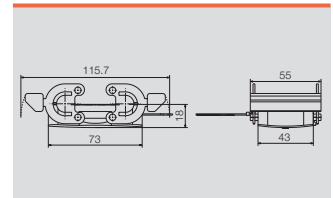
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		52	HDC 10B TOBU 1M20G	1787600000
M 25	w. threading		52	HDC 10B TOBU 1M25G	1787590000
M 25	w. threading		72	HDC 24D TOBU 1M25G	1787300000
M 32	w. threading		72	HDC 24D TOBU 1M32G	1787290000



Cover



Version	Type	Order No.
For hoods	HDC 10B DMDQ 2QB	1665240000

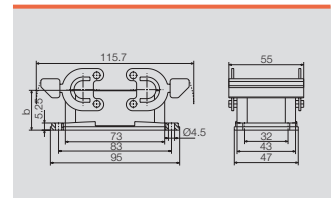


Base

Bulkhead housing



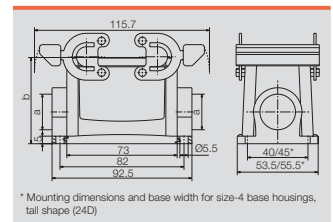
Version	Cover	b (mm)	Type	Order No.
		29.3	HDC 10B ABU	1205000000



Base housing



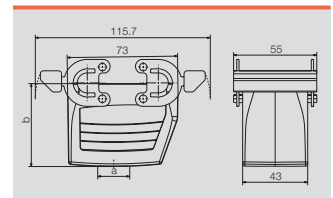
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		57	HDC 10B SBU 2M20G	1787640000
M 25	w. threading		57	HDC 10B SBU 2M25G	1787630000



Coupling housing



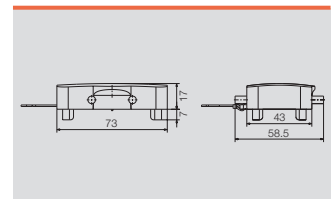
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		55	HDC 10B KBU 1M20G	1787720000



Cover



Version	Type	Order No.
For bases	HDC 10B DODQ 4B0	1665230000



HVE series - exciting voltage

830 V, 20 A, Size 6

6 + 2 + ⊕

Inserts

Tension clamp connection



Insert	Type	Order No.
Male	HDC HVE 6+2 MT CtH	1967250000
Female	HDC HVE 6+2 FT CtH	1967240000

Screw connection



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

Dimensions

Arrangement of contacts

Screw connection Tension clamp connection

Male

Female

○ switch contact
● operating contact

Mounting cut-out

Housing selection RockStar® IP66
Size 6



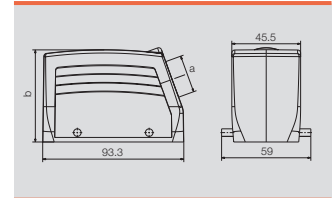
Further housings are available, see
Chapter E for IP66 and Chapter F for IP68

Hood

Plug housing, cable entry sideways



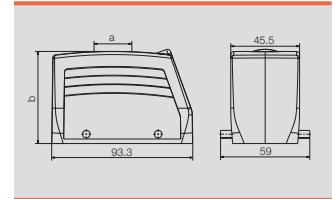
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 16B TSBU 1M25G	1788180000
M 25	w. threading		76	HDC 40D TSBU 1M25G	1787010000
M 32	w. threading		76	HDC 40D TSBU 1M32G	1787000000



Plug housing, cable entry at top



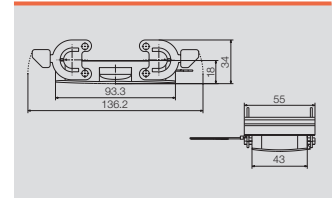
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 16B TOBU 1M25G	1788210000
M 25	w. threading		76	HDC 40D TOBU 1M25G	1787070000
M 32	w. threading		76	HDC 40D TOBU 1M32G	1787060000



Cover



Version	Type	Order No.
For hoods	HDC 16B DMDQ 2QB	1665270000

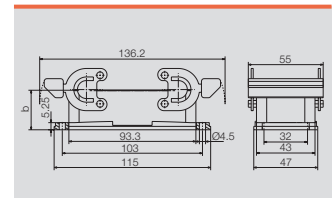


Base

Bulkhead housing



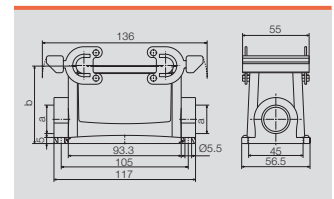
Version	Cover	b (mm)	Type	Order No.
		29	HDC 16B ABU	1208600000



Base housing



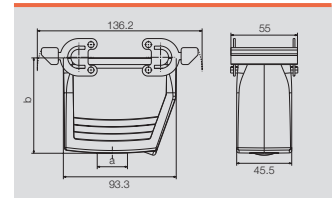
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		64	HDC 16B SBU 2M25G	1788240000
M 25	w. threading		84	HDC 40D SBU 2M25G	1787120000
M 32	w. threading		84	HDC 40D SBU 2M32G	1787110000



Coupling housing



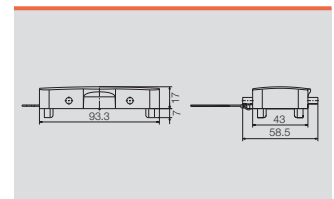
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		79	HDC 40D KBU 1M25G	1787200000
M 32	w. threading		79	HDC 40D KBU 1M32G	1787190000



Cover



Version	Type	Order No.
For bases	HDC 16B DODQ 4B0	1665260000



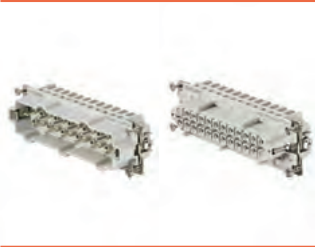
HVE series - exciting voltage

830 V, 20 A, Size 8

10 + 2 + ⊕

Inserts

Tension clamp connection

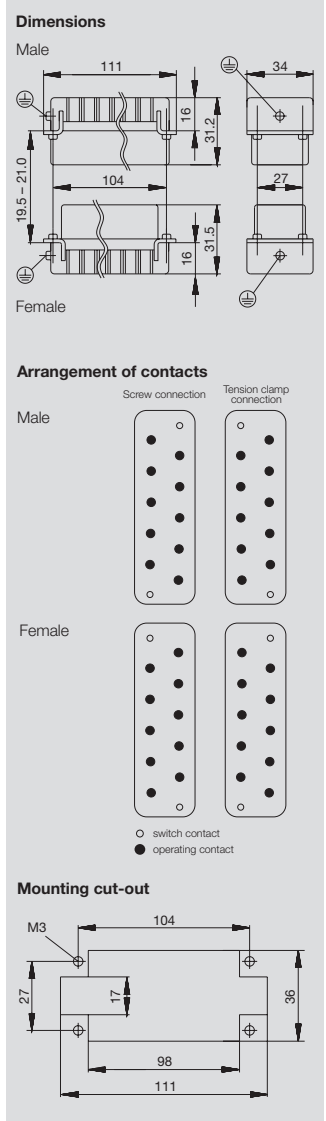


Insert	Type	Order No.
Male	HDC HVE 10+2 MT CtH	1967210000
Female	HDC HVE 10+2 FT CtH	1967260000

Screw connection



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



Housing selection RockStar® IP66
Size 8



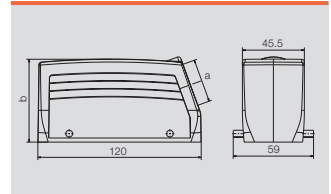
Further housings are available, see
Chapter E for IP66 and Chapter F for IP68

Hood

Plug housing, cable entry sideways



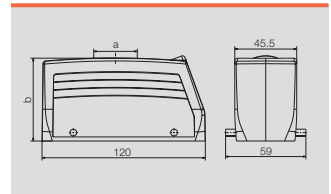
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 24B TSBU 1M25G	1787760000
M 25	w. threading		76	HDC 64D TSBU 1M25G	1786780000
M 32	w. threading		61	HDC 24B TSBU 1M32G	1787750000
M 32	w. threading		76	HDC 64D TSBU 1M32G	1786770000



Plug housing, cable entry at top



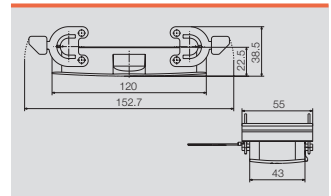
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 24B TOBU 1M25G	1787820000
M 32	w. threading		61	HDC 24B TOBU 1M32G	1787810000
M 32	w. threading		76	HDC 64D TOBU 1M32G	1786830000



Cover



Version	Type	Order No.
For hoods	HDC 24B DMDQ 2QB	1665640000

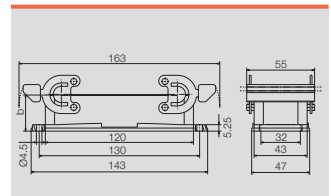


Base

Bulkhead housing



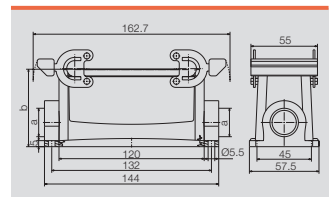
Version	Cover	b (mm)	Type	Order No.
		29.3	HDC 24B ABU	1212400000



Base housing



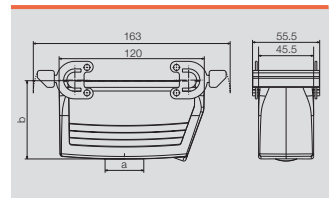
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		64	HDC 24B SBU 2M25G	1787870000
M 25	w. threading		84	HDC 64D SBU 2M25G	1786890000
M 32	w. threading		84	HDC 64D SBU 2M32G	1786880000



Coupling housing



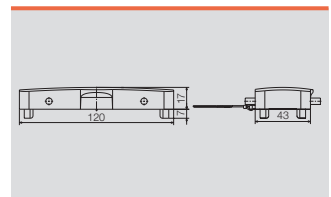
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		65	HDC 24B KBU 1M25G	1787920000
M 32	w. threading		79	HDC 64D KBU 1M32G	1786960000



Cover



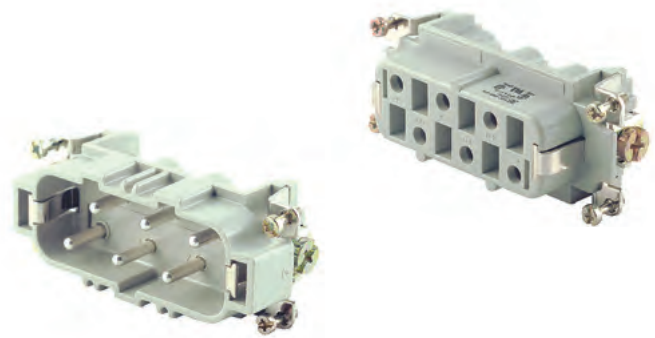
Version	Type	Order No.
For bases	HDC 24B DODQ 4B0	1665630000



HSB series – the heavy-duty connectors

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

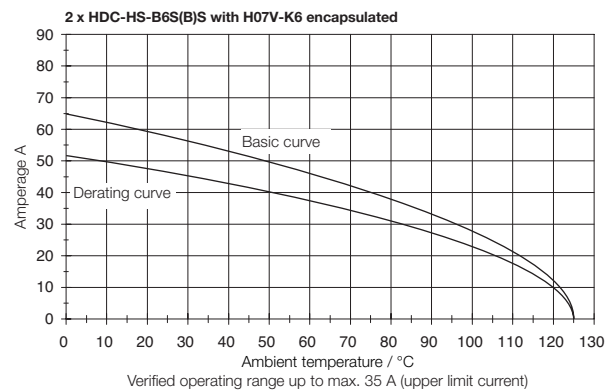
B



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 ... +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 PZ 2

Derating curves



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	Screw conn. with wire guard spring	Crimp connection	PUSH IN connection	Axial screw connection	Page
	6	400 V	35 A	6 + ⊕		•				B.92
	10	400 V	35 A	12 + ⊕		•				B.94

HSB series - the heavy-duty connectors

400 V, 35 A, Size 6

6 + ⊕

Inserts

Screw connection



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

Dimensions

Arrangement of contacts

Male

Female

Mounting cut-out

Housing selection RockStar® IP66
Size 6



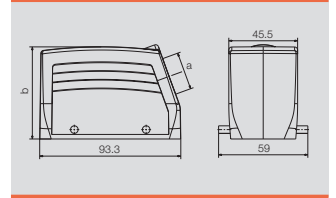
Further housings are available, see
Chapter E for IP66 and Chapter F for IP68

Hood

Plug housing, cable entry sideways



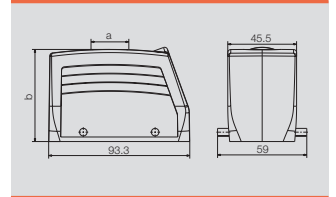
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 16B TSBU 1M25G	1788180000
M 25	w. threading		76	HDC 40D TSBU 1M25G	1787010000
M 32	w. threading		76	HDC 40D TSBU 1M32G	1787000000



Plug housing, cable entry at top



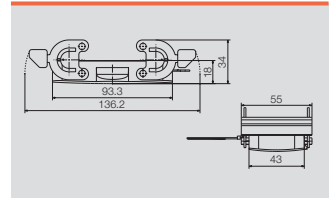
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 16B TOBU 1M25G	1788210000
M 25	w. threading		76	HDC 40D TOBU 1M25G	1787070000
M 32	w. threading		76	HDC 40D TOBU 1M32G	1787060000



Cover



Version	Type	Order No.
For hoods	HDC 16B DMDQ 2QB	1665270000

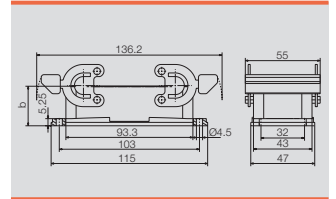


Base

Bulkhead housing



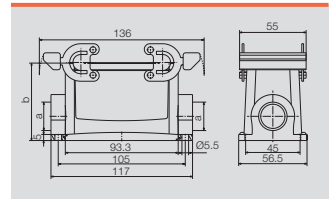
Version	Cover	b (mm)	Type	Order No.
		29	HDC 16B ABU	1208600000



Base housing



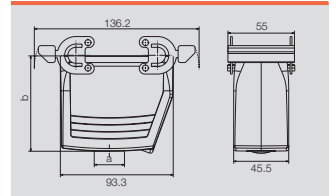
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		64	HDC 16B SBU 2M25G	1788240000
M 25	w. threading		84	HDC 40D SBU 2M25G	1787120000
M 32	w. threading		84	HDC 40D SBU 2M32G	1787110000



Coupling housing



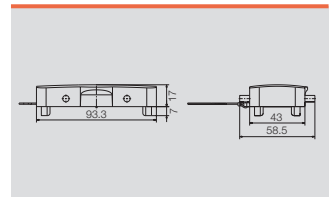
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		79	HDC 40D KBU 1M25G	1787200000
M 32	w. threading		79	HDC 40D KBU 1M32G	1787190000



Cover



Version	Type	Order No.
For bases	HDC 16B DODQ 4B0	1665260000



HSB series - the heavy-duty connectors

400 V, 35 A, Size 10

12 + ⊕

Inserts

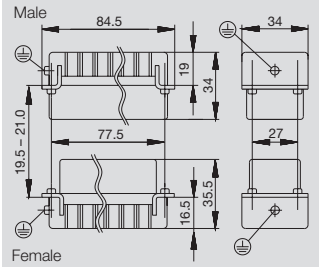
Screw connection



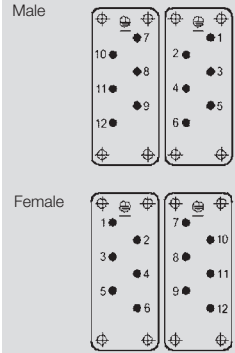
Insert	Type	Order No.
Male	HDC HSB 6 MS	1498700000
Female	HDC HSB 6 FS	1498900000
Male	HDC HSB 6 MS 7 - 12	1498800000
Female	HDC HSB 6 FS 7 - 12	1499000000

Note Please use the following inserts for size 10 (12-pole): HSB 6 FS + HSB 6 FS 7-12

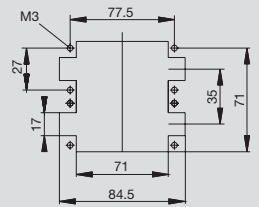
Dimensions



Arrangement of contacts



Mounting cut-out



Housing selection RockStar® IP66
Size 10



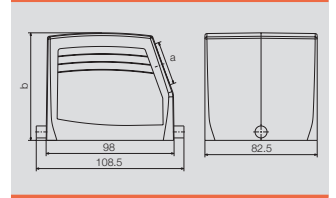
Further housings are available, see
Chapter E for IP66

Hood

Plug housing, cable entry sideways



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

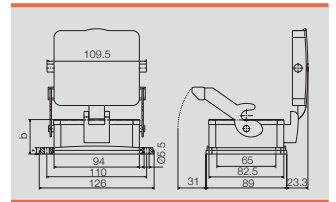


Base

Bulkhead housing



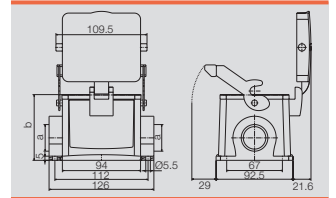
Version	Cover	b (mm)	Type	Order No.
		38	HDC 32B ALU	1219500000
	with cover	55	HDC 32B ADLU	1219800000



Base housing



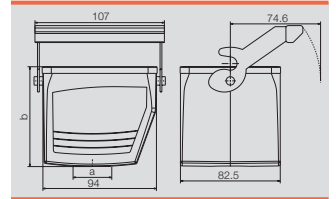
a	Version	Cover	b (mm)	Type	Order No.
M 32	w. threading		79	HDC 32B SLU 2M32G	1788470000
M 32	w. threading	with cover	96	HDC 32B SDLU 2M32G	1788490000



Coupling housing

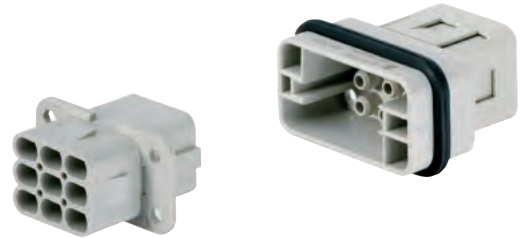


a	Version	Cover	b (mm)	Type	Order No.
M 32	w. threading		83	HDC 32B KLU 1M32G	1788500000



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 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
Approvals	UL/CSA	UL/CSA	UL/CSA/ISO 23570	UL/CSA/ISO 23570	UL/CSA
Inserts					
No. of poles	5 + PE	7 + PE	8 + PE	4 power, 2 signal + PE	17 + PE
Connection system	Crimp, HE-contact	Crimp, HD-contacts	Crimp, HE-contact	Crimp, HX-/HD-contacts	Crimp, HD-contacts
Rated voltage	250 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
Rated current	16 A	10 A	16 A	40/10 A	10 A
Rated impulse withstand voltage	4 kV	6 kV	6 kV	6 kV/4 kV	4 kV
Pollution severity	3	3	3	3	2
Insulation resistance	≥ 10 ¹⁰ Ω	≥ 10 ¹⁰ Ω	≥ 10 ¹⁰ Ω	≥ 10 ¹⁰ Ω	≥ 10 ¹⁰ Ω
Material	PC glass-fibre reinforced	PC glass-fibre reinforced	PC glass-fibre reinforced	PC glass-fibre reinforced	PC glass-fibre reinforced
Temperature range	-40°...+125°	-40°...+125°	-40°...+125°	-40°...+125°	-40°...+125°
Flammability to UL 94	V - 0	V - 0	V - 0	V - 0	V - 0
Mechanical service life					
- Plugging cycles Ag - Surface	≥ 500	≥ 500	≥ 500	≥ 500	≥ 500
- Plugging cycles Au - Surface	≥ 500	≥ 500	≥ 500	≥ 500	≥ 500
Volume (continuity) resistance of crimp connection	≤ 2 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
Surface	Passivated silver	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)
- Stripping length	7.5 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	0.5...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	0.5...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	0.5...4 mm ²		
- AWG conductor	AWG 20...14	AWG 26...14	AWG 20...12	AWG 16...10	AWG 26...14
- Stripping length	10 mm	5 mm	7.5 mm	9 mm	8 mm
- Clamping torque	0.5...0.55 Nm	0.5...0.55 Nm			
- Blade dimensions	SD 0.8 x 4 mm	SD 0.8 x 4 mm			
Accessories and tools					
Crimping tools used	9205430000 CTIN CM 1.6/2.5 9018490000 CTX CM 1.6/2.5	9205430000 CTIN CM 1.6/2.5 9018490000 CTX CM 1.6/2.5	9205430000 CTIN CM 1.6/2.5 9018490000 CTX CM 1.6/2.5	9205430000 CTIN CM 1.6/2.5 9205440000 CTIN CM 3.6 9018490000 CTX CM 1.6/2.5	9205430000 CTIN CM 1.6/2.5 9018490000 CTX CM 1.6/2.5
Screwdriver			Version Crosshead, shape H Sheet metal screw: ISO 7049-ST 2.9x9.5-F-H	Version Crosshead, shape H Sheet metal screw: ISO 7049-ST 2.9x9.5-F-H	Version Crosshead, shape H Sheet metal screw: ISO 7049-ST 2.9x9.5-F-H
Removal tool for crimps	1866750000 Removal Tool HE	1866730000 Removal Tool HD	1866750000 Removal Tool HE	1002990000 Removal Tool HX 1866730000 Removal Tool HD	1866730000 Removal Tool HD

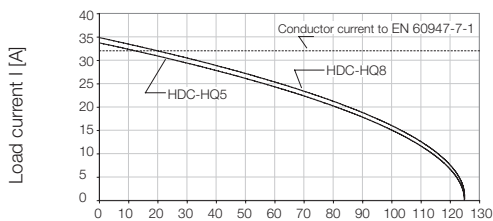
Note: When used properly and as designated, the listed connectors may not be connected or disconnected if there is a live voltage or load!

Overview

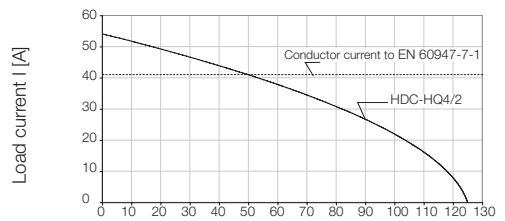
	Size	Rated voltage	Rated current	No. of poles	Tension clamp connection	Screw conn. with wire guard spring	Crimp connection	PUSH IN connection	Axial screw connection	Page
	1	250 V	16 A	5 + ⊕			•			B.98
	1	400 V	10 A	7 + ⊕			•			B.100
	HQ	500 V	16 A	8 + ⊕			•			B.102
	HQ	250 V	10 A	17 + ⊕			•			B.104
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

Technical data

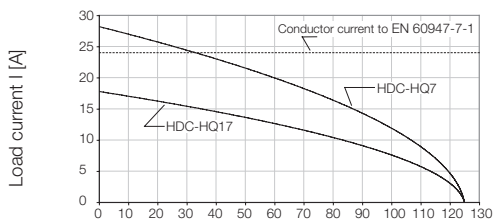
Derating curves



HDC-HQ5 und HDC-HQ8 / H07V-K4.0 Ambient temperature T [°C]



HDC-HQ4/2 / H07V-K6.0 Ambient temperature T [°C]
(control contacts with 10 A / H07V-K2.5)



HDC-HQ7 und HDC-HQ17 / H07V-K2.5 Ambient temperature Tr [°C]

HQ series - the powerful little connectors

250 V, 16 A, Size 1

5 + ⊕

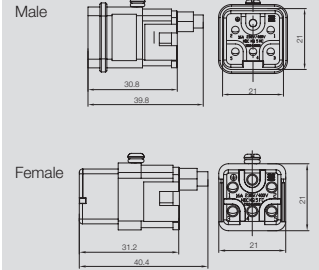
Inserts

Crimp connection

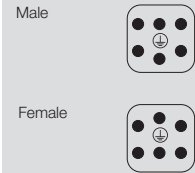


Insert	Type	Order No.
Male	HDC HQ 5 MC	1912440000
Female	HDC HQ 5 FC	1912460000

Dimensions



Arrangement of contacts



Accessories

Crimp contacts

Surface finish gold



Surface finish silver



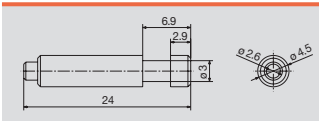
Male			Female		
Qty.	Type	Order No.	Type	Order No.	Order No.
100	HDC-C-HE-SM0.5AU	1651420000	HDC-C-HE-BM0.5AU	1651470000	
100	HDC-C-HE-SM0.75-1.00AU	1651430000	HDC-C-HE-BM0.75-1.00AU	1651480000	
100	HDC-C-HE-SM1.5AU	1651440000	HDC-C-HE-BM1.5AU	1651490000	
100	HDC-C-HE-SM2.5AU	1651450000	HDC-C-HE-BM2.5AU	1651500000	
100	HDC-C-HE-SM4.0AU	1651460000	HDC-C-HE-BM4.0AU	1651510000	
100	HDC-C-HE-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

Coding pin



Qty.	Type	Order No.
100	HDC HE CP	1003240000



Tools



Crimping tool	
CTX CM 1.6/2.5	9018490000
CTIN CM 1.6/2.5	9205430000
Contact Removal Tool	
Removal Tool HE	1866750000

Housing selection RockStar® IP66

Size 1



Further housings are available, see Chapter E for IP66 and Chapter F for IP68

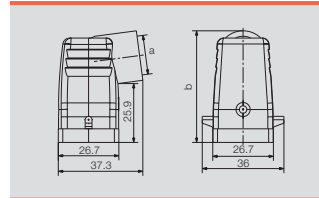
Hood

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

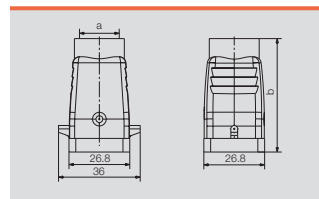


Plug housing, cable entry at top



Material: diecast aluminium

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



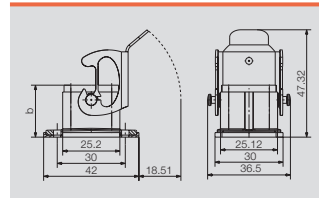
Base

Bulkhead housing



Material: diecast aluminium

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

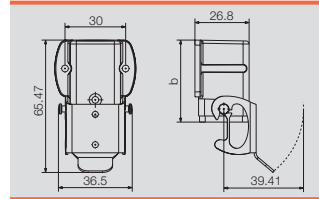


Base housing



Material: diecast aluminium

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

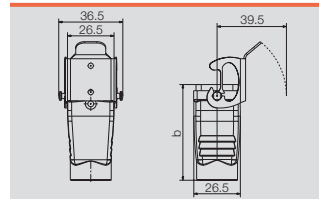


Coupling housing



Material: diecast aluminium

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

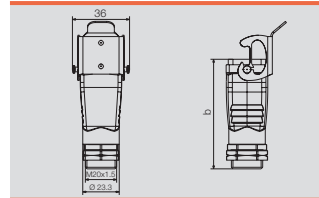


Screw mounting housing



Material: diecast aluminium

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

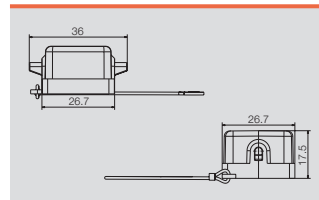


Cover



Material: diecast aluminium

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



HQ series - the powerful little connectors

400 V, 10 A, Size 1

7 + ⊕

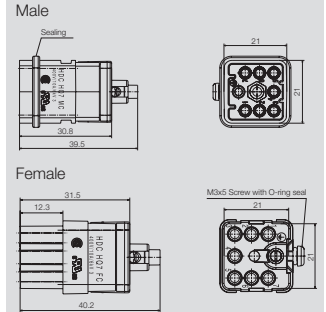
Inserts

Crimp connection

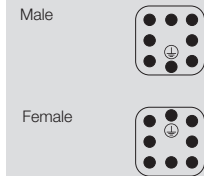


Insert	Type	Order No.
Male	HDC HQ 7 MC	1003190000
Female	HDC HQ 7 FC	1003180000

Dimensions



Arrangement of contacts



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	

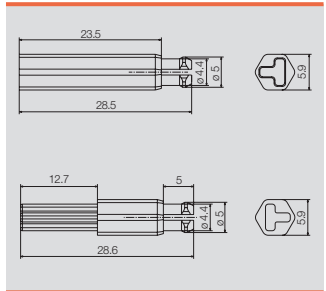
Conductor cross-section	Insulation stripping length
0.14 – 0.37 mm ²	AWG 26-22 8 mm
0.50 mm ²	AWG 20 8 mm
0.75 – 1.00 mm ²	AWG 18 8 mm
1.50 mm ²	AWG 16 8 mm
2.50 mm ²	AWG 14 6 mm

Coding pin



Qty.	Type	Order No.
50	HDC HQ 7 CPM	1003230000
50	HDC HQ 7 CPF	1003220000

Note: six-way coding is possible with a coding pin.



Tools



Crimping tool		Order No.
CTX CM 1.6/2.5		9018490000
CTIN CM 1.6/2.5		9205430000
Contact Removal Tool		Order No.
REMOVAL TOOL HD		1866730000

Housing selection RockStar® IP66
Size 1



Further housings are available, see
Chapter E for IP66 and Chapter F for IP68

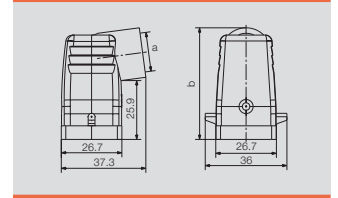
Hood

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

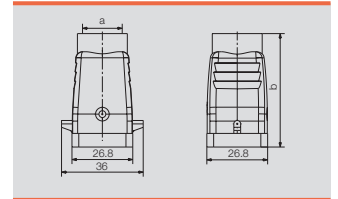


Plug housing, cable entry at top



Material: diecast aluminium

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



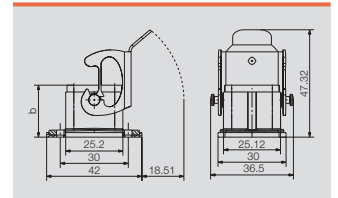
Base

Bulkhead housing



Material: diecast aluminium

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

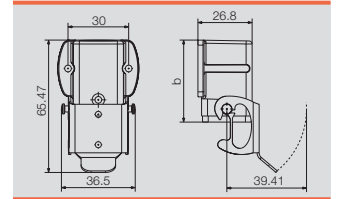


Base housing



Material: diecast aluminium

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

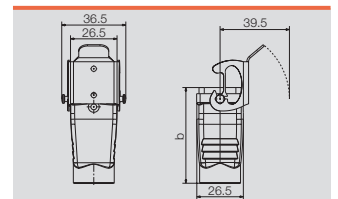


Coupling housing



Material: diecast aluminium

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

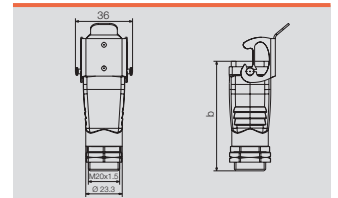


Screw mounting housing



Material: diecast aluminium

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

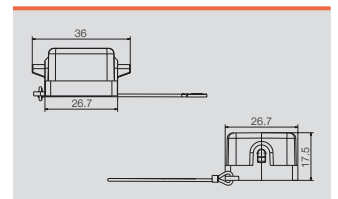


Cover



Material: diecast aluminium

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



HQ series - the powerful little connectors

500 V, 16 A, Size HQ

8 + ⊕

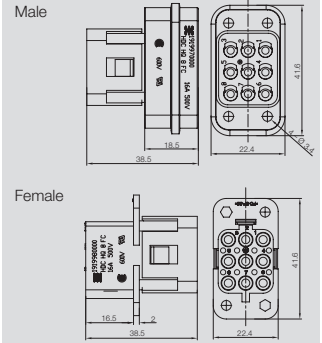
Inserts

Crimp connection

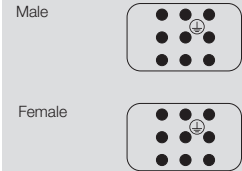


Insert	Type	Order No.
Male	HDC HQ 8 MC	1919970000
Female	HDC HQ 8 FC	1919980000

Dimensions



Arrangement of contacts



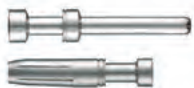
Accessories

Crimp contacts

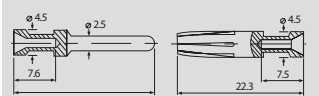
Surface finish gold



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-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	

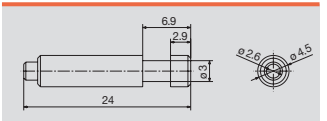


Conductor cross-section	Insulation stripping length
0.50 mm ²	AWG 20 7.5 mm
0.75 – 1.00 mm ²	AWG 18 7.5 mm
1.50 mm ²	AWG 16 7.5 mm
2.50 mm ²	AWG 14 7.5 mm
4.00 mm ²	AWG 12 7.5 mm

Coding pin



Qty.	Type	Order No.
100	HDC HE CP	1003240000



Tools



Crimping tool		Order No.
CTX CM 1.6/2.5		9018490000
CTIN CM 1.6/2.5		9205430000
Contact Removal Tool		Order No.
Removal Tool HE		1866750000

Housing selection RockStar® IP66
Size HQ



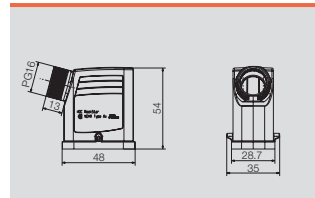
Further housings are available, see
Chapter E for IP66

Hood

Plug housing, cable entry sideways



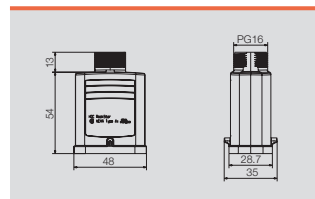
a	Version	Cover	b (mm)	Type	Order No.
PG 16	w. threading		54	HDC HQP TSLU 1PG16	1003090000



Plug housing, cable entry at top



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

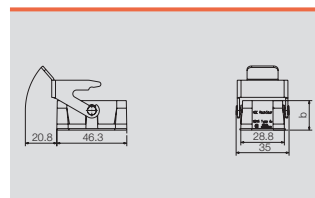


Base

Bulkhead housing



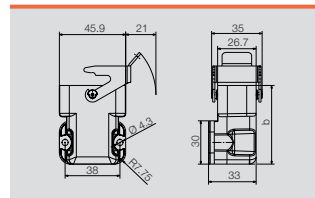
Version	Cover	b (mm)	Type	Order No.
		19.5	HDC HQP ALU	1003040000



Bulkhead housing angled



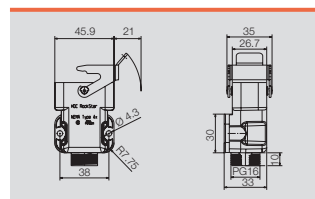
Version	Cover	b (mm)	Type	Order No.
angled		54.5	HDC HQP AWLU	1003060000



Base housing



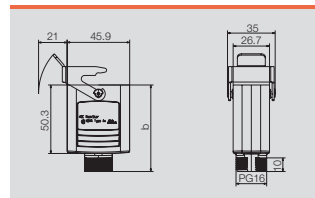
a	Version	Cover	b (mm)	Type	Order No.
PG 16	w. threading		54.5	HDC HQP SLU 1PG16	1003110000



Coupling housing



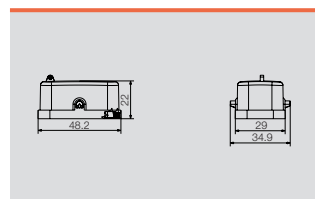
a	Version	Cover	b (mm)	Type	Order No.
PG 16	w. threading		63.5	HDC HQP KOLU 1PG16	1003120000



Cover



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



Note For plastic and metal housings

HQ series - the powerful little connectors

250 V, 10 A, Size HQ

17 + ⊕

Inserts

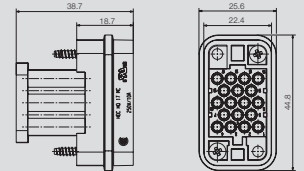
Crimp connection



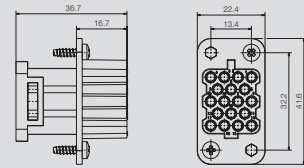
Insert	Type	Order No.
Male	HDC HQ 17 MC	1003210000
Female	HDC HQ 17 FC	1003200000

Dimensions

Male

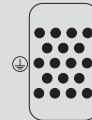


Female



Arrangement of contacts

Male



Female



Accessories

Crimp contacts

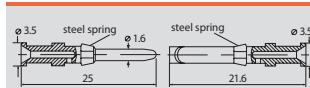
Surface finish gold



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

Housing selection RockStar® IP66
Size HQ



Further housings are available, see
Chapter E for IP66

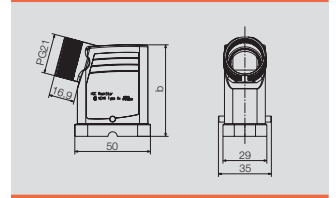
Hood

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

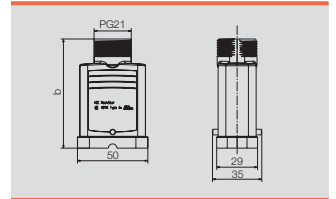


Plug housing, cable entry at top



Material: Zinc diecast

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



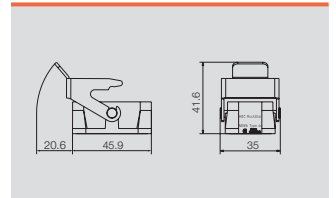
Base

Bulkhead housing



Material: Zinc diecast

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

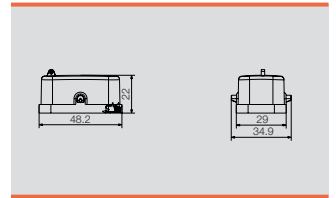


Cover



Material: Plastic

a	Version	Cover	b (mm)	Type	Order No.
		for female insert	23.5	HDC HQP DMD 2BO	1003130000
		for male insert	23.5	HDC HQP DOD 2BO	1003140000



Note For plastic and metal housings

HQ series - the powerful little connectors

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

4 + 2 + ⊕

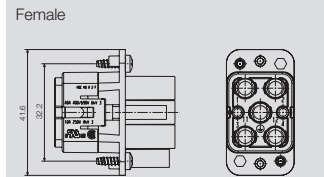
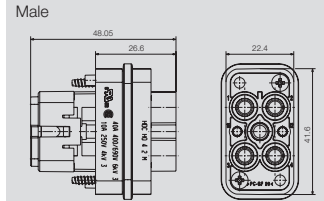
Inserts

Crimp connection

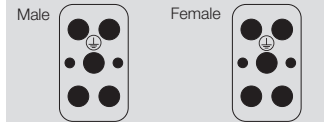


Insert	Type	Order No.
Male	HDC HQ 4/2 MC	1003170000
Female	HDC HQ 4/2 FC	1003160000

Dimensions



Arrangement of contacts



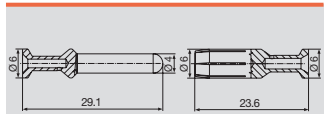
Accessories

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	
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	



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	
CTIN CM 1.6/2.5	9205430000
Contact Removal Tool	
Removal Tool HX	1002990000

Crimp contacts

Surface finish gold



Male			Female		
Qty.	Type	Order No.	Type	Order No.	Order No.
100	HDC-C-HD-SM0.14-0.37AG	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	



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

Surface finish silver



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

Tools



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

Housing selection RockStar® IP66
Size HQ



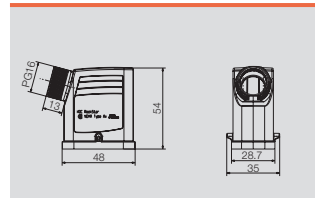
Further housings are available, see Chapter E for IP66

Hood

Plug housing, cable entry sideways



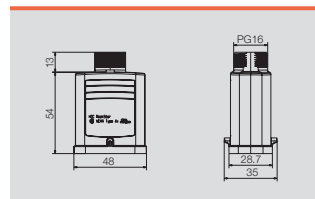
a	Version	Cover	b (mm)	Type	Order No.
PG 16	w. threading		54	HDC HQP TSLU 1PG16	1003090000



Plug housing, cable entry at top



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

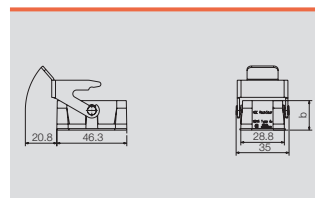


Base

Bulkhead housing



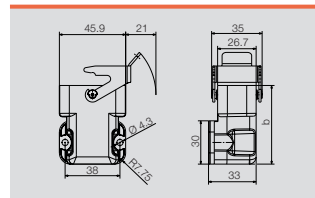
Version	Cover	b (mm)	Type	Order No.
		19.5	HDC HQP ALU	1003040000



Bulkhead housing angled



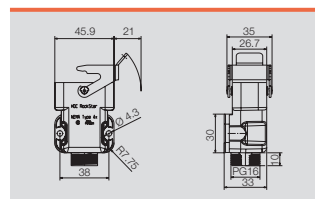
Version	Cover	b (mm)	Type	Order No.
angled		54.5	HDC HQP AWLU	1003060000



Base housing



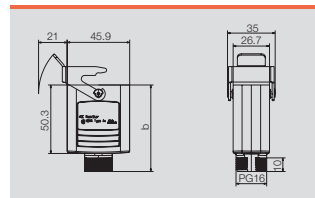
a	Version	Cover	b (mm)	Type	Order No.
PG 16	w. threading		54.5	HDC HQP SLU 1PG16	1003110000



Coupling housing



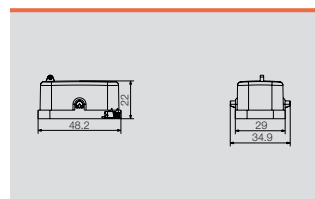
a	Version	Cover	b (mm)	Type	Order No.
PG 16	w. threading		63.5	HDC HQP KOLU 1PG16	1003120000



Cover



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



Note For plastic and metal housings

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 Axial	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	DIN EN 61984 DIN EN 60664-1
Approvals	UL/CSA	UL/CSA/VDE	UL/CSA	UL/CSA/VDE	UL/CSA/VDE
Inserts					
No. of poles					
– Power contact	4 (+PE)	8 (+PE)	4 (+PE)	4 (+PE)	4 (+PE)
– Signal contact		24			2
Rated voltage					
– Power contact	1000 V	400 V	690 V	830 V	830 V
– Signal contact		160 V			400 V
Rated voltage to UL/CSA	600 V	600 V	600 V	600 V	600 V
Rated current					
– Power contact	65 A	16 A	80 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	8 KV
– Signal contact		2.5 KV			6 KV
Pollution severity	3	3	3 (1000 V / 8 kV / 2)	3	3
Insulation resistance	$\geq 10^{10} \Omega$	$\geq 10^{10} \Omega$	$\geq 10^{10} \Omega$	$\geq 10^{10} \Omega$	$\geq 10^{10} \Omega$
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)	Glass-fibre reinforced PC (in UL list and approved for railway applications)
Temperature range	-40 °C ... +125 °C	-40 °C ... +125 °C	-40 °C ... +125 °C	-40 °C ... +125 °C	-40 °C ... +125 °C
Flammability to UL 94	V-0	V-0	V-0	V-0	V-0
Mechanical service life					
– Plugging cycles Ag - Surface	≥ 500	≥ 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)	$\leq 1 \text{ m}\Omega$	$\leq 1 \text{ m}\Omega$	$\leq 1 \text{ m}\Omega$ (Power) $\leq 2 \text{ m}\Omega$ (Signals)
Contacts / Material					
Sockets and plug-in contact	Copper alloy	Copper alloy	Copper alloy	Copper alloy	Copper alloy
Surface	Passivated silver	Passivated silver or gold-plated	Passivated silver	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)	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	13 mm	15 mm	15 mm
– Signal contact		8 mm			8 mm
Clamping torque					
– Power contact	1.1 - 1.7 Nm		2 ... 3 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		SW 3		
– 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)	1.5 - 16 mm ² with cable lug	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 16 ... 4	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	8 mm (for wire up to 6 mm ² only)	13 mm	13 mm
– Clamping torque	0.5 - 0.8 Nm	2 - 2.5 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 PH 2	SD 0.8 x 4 mm or PZ 2	SD 1.2 x 6.5 mm or PH 2	SD 1.2 x 6.5 mm or PH 2

Note: 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

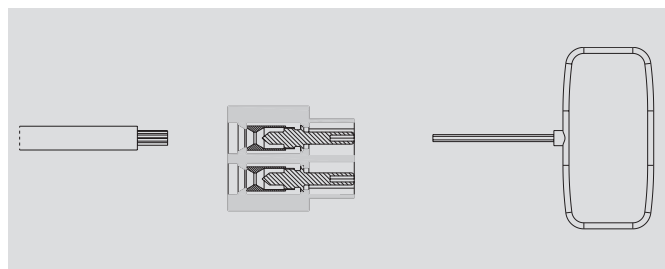
S6/12*	S6/36	S12/2	S4/8	S6/6*	S8/0
DIN EN 61984 DIN EN 60664-1 UL/CSA	DIN EN 61984 DIN EN 60664-1 UL/CSA/VDE	DIN EN 61984 DIN EN 60664-1 UL/CSA/VDE	DIN EN 61984 DIN EN 60664-1 UL/CSA/VDE	DIN EN 61984 DIN EN 60664-1 UL/CSA	DIN EN 61984 DIN EN 60664-1 UL/CSA/VDE
6 (+PE) 12	6 (+PE) 36	12 (+PE) 2	4 (+PE) 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	≥ 10 ¹⁰ Ω	≥ 10 ¹⁰ Ω	≥ 10 ¹⁰ Ω	≥ 10 ¹⁰ Ω	≥ 10 ¹⁰ Ω
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)	Glass-fibre reinforced PC (in UL list and approved for railway applications)	Glass-fibre reinforced PC (in UL list and approved for railway applications)
-40 °C ... +125 °C	-40 °C ... +125 °C	-40 °C ... +125 °C	-40 °C ... +125 °C	-40 °C ... +125 °C	-40 °C ... +125 °C
V - 0	V - 0	V - 0	V - 0	V - 0	V - 0
≥ 500	≥ 500	≥ 500	≥ 500	≥ 500	≥ 500
≤ 2 mΩ (Power) ≤ 2 mΩ (Signals)	≤ 2 mΩ (Power) ≤ 4 mΩ (Signals)	≤ 2 mΩ (Power) ≤ 4 mΩ (Signals)	≤ 1 mΩ (Power) ≤ 2 mΩ (Signals)	≤ 1 mΩ (Power) ≤ 2 mΩ (Signals)	≤ 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				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	0.5 - 6 mm ² (0.5 mm ² with ferrule)	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)	16 - 35 mm ²	10 - 25 mm ² **
AWG 14 ... 8	AWG 20 ... 10 (AWG 10 with ring cable lug)	AWG 20 ... 10 (AWG 10 with ring cable lug)	AWG 20 ... 6 (AWG 10, 8 and 6 with ring cable lug)	AWG 6 ... 2	AWG 8 ... 4
8 mm	13 mm	13 mm	13 mm	8 mm	12 mm
2 - 2.5 Nm	2 - 2.5 Nm	2 - 2.5 Nm	2 - 2.5 Nm	6 - 8 Nm	6 Nm (10 - 16 mm ²) / 7 Nm (25 mm ²)
SD 0.8 x 4 mm or PZ 2	SD 1.2 x 6.5 mm or PH 2	SD 1.2 x 6.5 mm or PH 2	SD 1.2 x 6.5 mm or PH 2	SD 0.8 x 4 mm or PZ 1	SD 5.5 x 1.0 or PH2

MixMate series – the high-capacity connectors

Overview

		Size	Rated voltage	Rated current	No. of poles	Tension clamp connection	Screw conn. with wire guard spring	Crimp connection	PUSH IN connection	Axial screw connection	Page
		3	1000 V	65 A	4 + ⊕					•	B.114
		4	400 V	16 A	8 + 24 + ⊕			•			B.116
		6	830 V	80 A	4 + 0 + ⊕					•	B.118
		6	830 V	80 A	4 + 0 + ⊕		•				B.120
		6	830 V	80 A	4 + 2 + ⊕		•				B.122
		6	690 V	40 A	6 + 36 + ⊕			•			B.124
		6	690 V	48 A	6 + 12 + ⊕		•			•	B.126
		6	690 V	40 A	12 + 2 + ⊕			•			B.128
		8	400 V	80 A	4 + 8 + ⊕		•				B.130
		8	690 V	100 A	6 + 6 + ⊕		•			•	B.132
		8	690 V	110 A	8 + 0 + ⊕					•	B.134

Hex-socket wrench



Ordering data

Type	Qty.	Order No.
IS 2 KG	2	1806630000
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 4/0	S 6/12	S 6/6
Stripping length	8 mm	13 mm	8 mm	13 mm
Tightening torque	1.1 – 1.7 Nm	2 - 3 Nm	1.1 – 1.7 Nm	6 ... 8 Nm
Hex-socket wrench	IS 2 KG	IS 3 KG	IS 2 KG	IS 4 KG

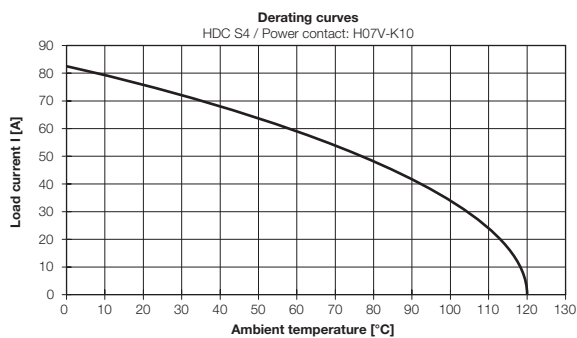
Technical data

Derating curves

Size 3

HDC S4

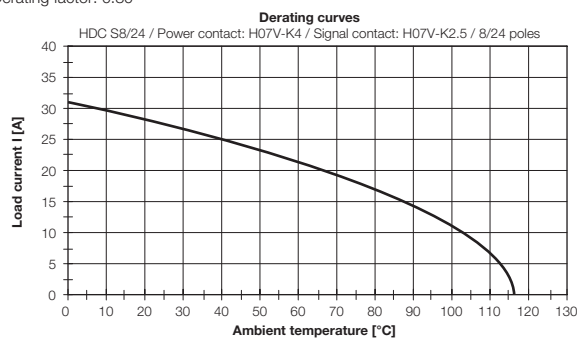
Power contacts: conductor H07V-K14, current varied
Derating factor: 0.80



Size 4

HDC S8/24

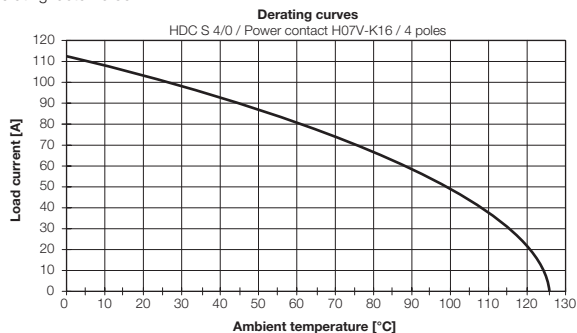
Power contacts: conductor: H07V-K14, current varied
Signal contacts: conductor: H07V-K2.5, continuous current of 10 A
Derating factor: 0.80



Size 6

HDC S4/0

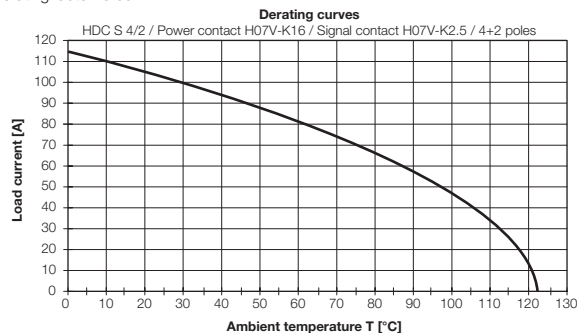
Power contacts H07V-K16, current varied
Signal contacts are not available
Derating factor: 0.80



Size 6

HDC S4/2

Power contacts H07V-K16, current varied
Signal contacts H07V-K2.5, 16 A constant current
Derating factor: 0.80



Technical data

Derating curves

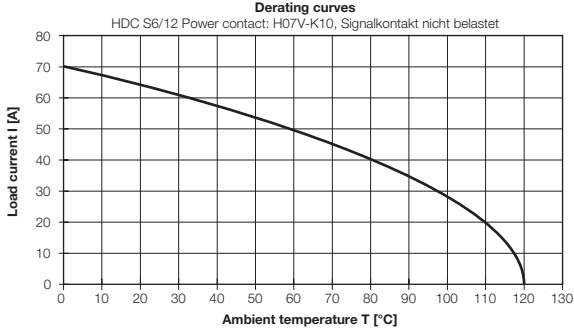
Size 6

HDC S6/12

Power contacts: conductor H07V-K10, current varied

Signal contacts: conductor under no load

Derating factor: 0.80



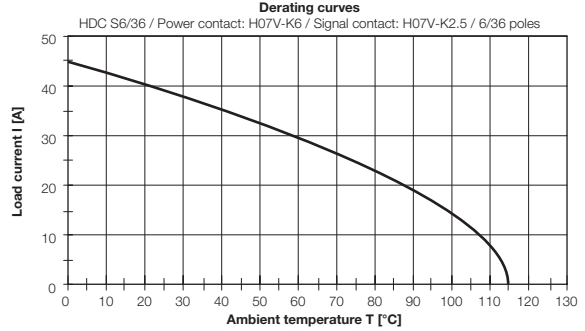
Size 6

HDC S6/36

Power contacts: conductor: H07V-K6, current varied

Signal contacts: conductor: H07V-K2.5, continuous current of 10 A

Derating factor: 0.80



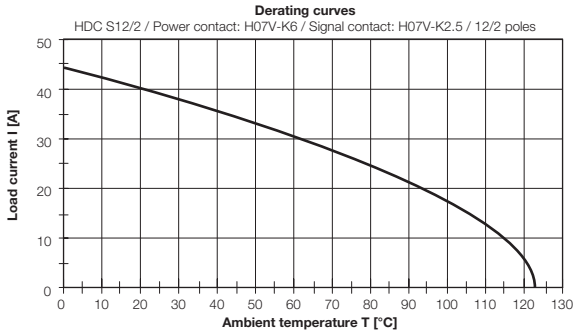
Size 6

HDC S12/2

Power contacts: conductor H07V-K10, current varied

Signal contacts: conductor: H07V-K2.5, continuous current of 10 A

Derating factor: 0.80



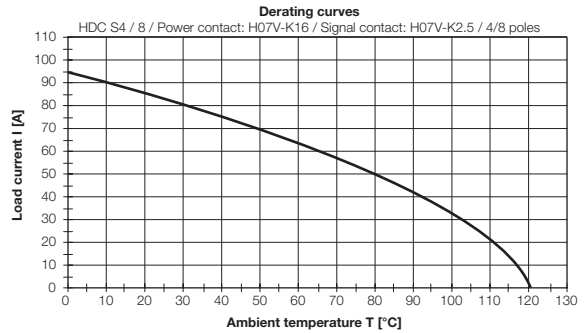
Size 8

HDC S4/8

Power contacts: conductor: H07V-K16, current varied

Signal contacts: conductor: H07V-K2.5, continuous current of 16 A

Derating factor: 0.80



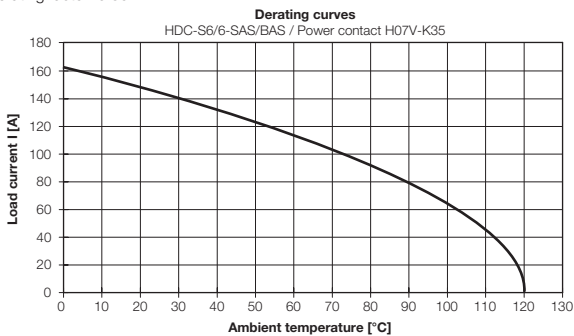
Size 8

HDC S6/6

Power contacts: conductor H07V-K35, current varied

Signal contacts: H07V-K2.5, continuous current of 16A

Derating factor: 0.80



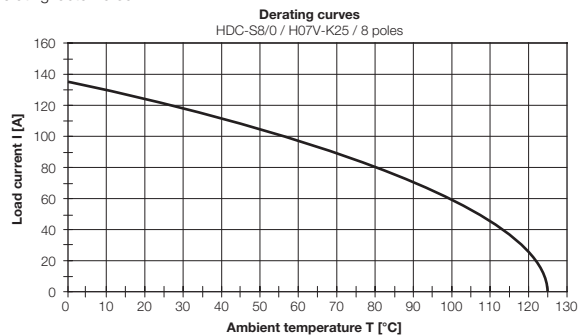
Size 8

HDC S8/0

Power contacts: conductor: H07V-K25, current varied

Signal contacts: not available

Derating factor: 0.80



MixMate series - the high-capacity connectors

1000 V, 65 A, Size 3

4 + ⊕

Inserts

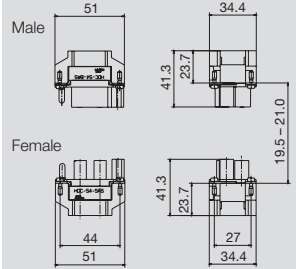
Axial screw connection



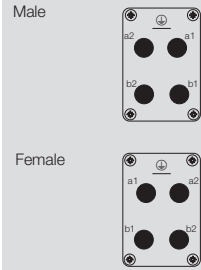
Insert	Type	Order No.
Male	HDC S4 SAS	1789990000
Female	HDC S4 BAS	1789980000

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

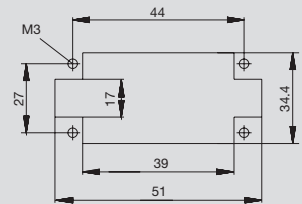
Dimensions



Arrangement of contacts



Mounting cut-out



Housing selection RockStar® IP66
Size 3



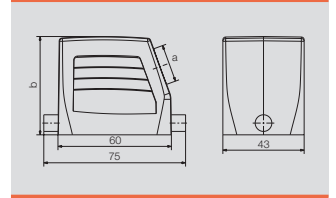
Further housings are available, see
Chapter E for IP66 and Chapter F for IP68

Hood

Plug housing, cable entry sideways



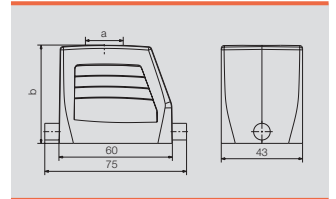
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		72	HDC 16D TSLU 1M25G	1787480000
M 32	w. threading		72	HDC 16D TSLU 1M32G	1787470000



Plug housing, cable entry at top



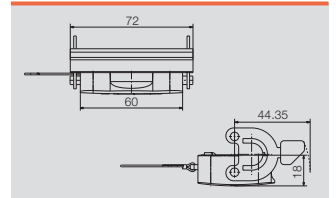
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		72	HDC 16D TOLU 1M25G	1787500000
M 32	w. threading		72	HDC 16D TOLU 1M32G	1787490000



Cover



Version	Type	Order No.
For hoods	HDC 06B DMDL 1LB	1665210000

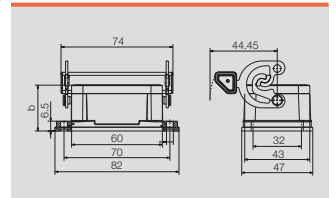


Base

Bulkhead housing



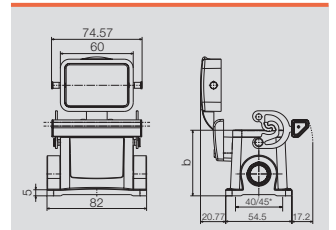
Version	Cover	b (mm)	Type	Order No.
		29	HDC 06B ALU	1202100000
	with cover	47	HDC 06B ADLU	1202500000



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

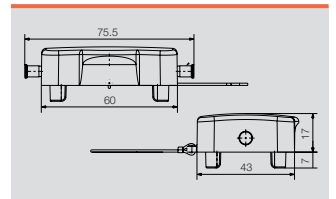


* Mounting dimensions for size-3 base housings, tall shape (16D)

Cover



Version	Type	Order No.
For bases	HDC 06B DODL 2B0	1665200000



MixMate series - the high-capacity connectors

400 V, 16 A, Size 4

8 + 24 + ⊕

Inserts

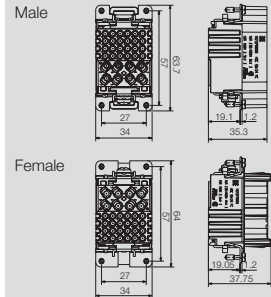
Crimp connection



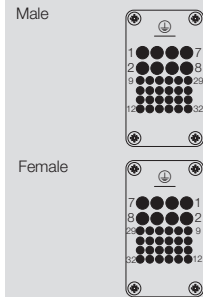
Insert	Type	Order No.
Male	HDC S8/24 MC	1023290000
Female	HDC S8/24 FC	1023270000

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

Dimensions



Arrangement of contacts



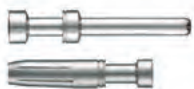
Accessories

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-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

Crimp contacts

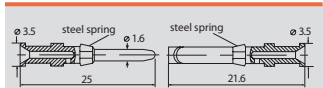
Surface finish gold



Surface finish silver



Male			Female		
Qty.	Type	Order No.	Type	Order No.	Order No.
100	HDC-C-HD-SM0.14-0.37AG	1651620000	HDC-C-HD-BM0.14-0.37AG	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		
CTIN CM 1.6/2.5		9205430000
Contact Removal Tool		
Removal Tool HE		1866750000
REMOVAL TOOL HD		1866730000

Housing selection RockStar® IP66
Size 4



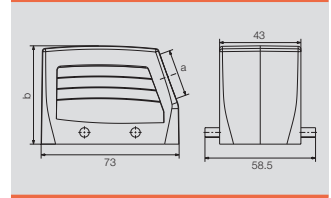
Further housings are available, see
Chapter E for IP66 and Chapter F for IP68

Hood

Plug housing, cable entry sideways



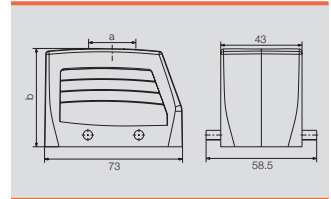
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		52	HDC 10B TSBU 1M20G	1787560000
M 25	w. threading		52	HDC 10B TSBU 1M25G	1787550000
M 25	w. threading		72	HDC 24D TSBU 1M25G	1787240000
M 32	w. threading		72	HDC 24D TSBU 1M32G	1787230000



Plug housing, cable entry at top



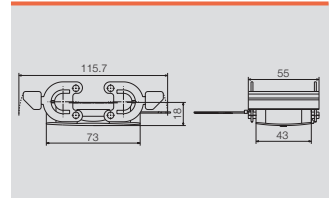
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		52	HDC 10B TOBU 1M20G	1787600000
M 25	w. threading		52	HDC 10B TOBU 1M25G	1787590000
M 25	w. threading		72	HDC 24D TOBU 1M25G	1787300000
M 32	w. threading		72	HDC 24D TOBU 1M32G	1787290000



Cover



Version	Type	Order No.
For hoods	HDC 10B DMDQ 2QB	1665240000

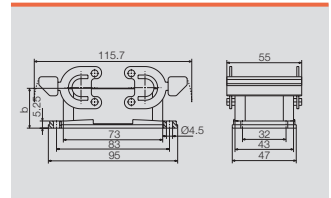


Base

Bulkhead housing



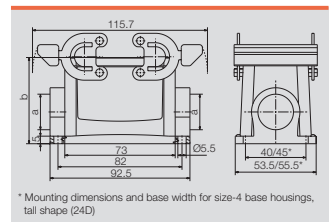
Version	Cover	b (mm)	Type	Order No.
		29.3	HDC 10B ABU	1205000000



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

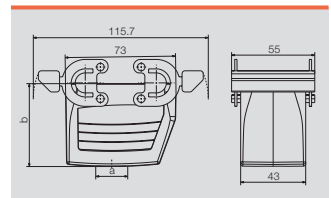


* Mounting dimensions and base width for size-4 base housings, tall shape (24D)

Coupling housing



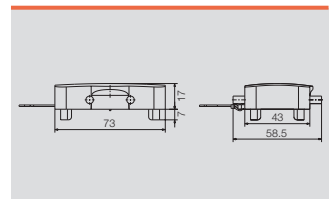
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		55	HDC 10B KBU 1M20G	1787720000



Cover



Version	Type	Order No.
For bases	HDC 10B DODQ 4B0	1665230000



MixMate series - the high-capacity connectors

830 V, 80 A, Size 6

4 + 0 + ⊕

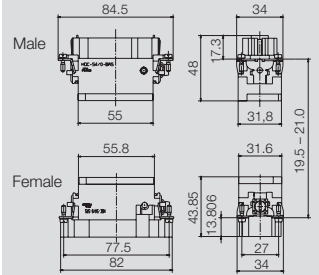
Inserts

Axial screw connection

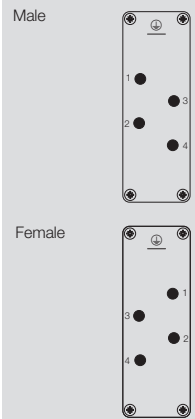


Insert	Type	Order No.
Male	HDC S4 0 SAS	1789960000
Female	HDC S4 0 BAS	1789970000

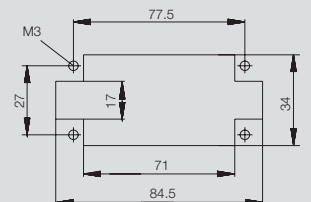
Dimensions



Arrangement of contacts



Mounting cut-out



Housing selection RockStar® IP66
Size 6



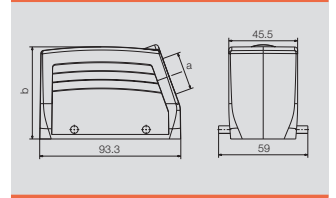
Further housings are available, see
Chapter E for IP66 and Chapter F for IP68

Hood

Plug housing, cable entry sideways



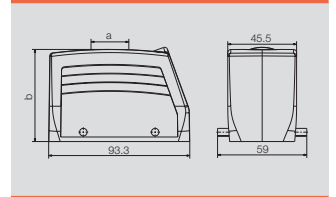
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 16B TSBU 1M25G	1788180000
M 25	w. threading		76	HDC 40D TSBU 1M25G	1787010000
M 32	w. threading		76	HDC 40D TSBU 1M32G	1787000000



Plug housing, cable entry at top



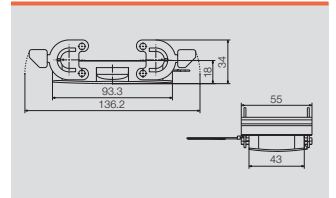
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 16B TOBU 1M25G	1788210000
M 25	w. threading		76	HDC 40D TOBU 1M25G	1787070000
M 32	w. threading		76	HDC 40D TOBU 1M32G	1787060000



Cover



Version	Type	Order No.
For hoods	HDC 16B DMDQ 2QB	1665270000

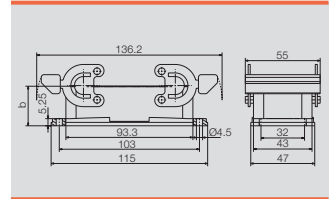


Base

Bulkhead housing



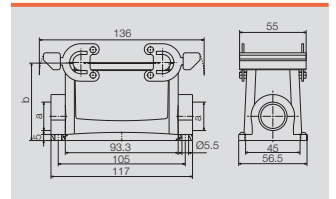
Version	Cover	b (mm)	Type	Order No.
		29	HDC 16B ABU	1208600000



Base housing



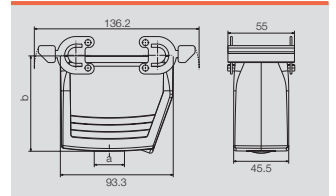
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		64	HDC 16B SBU 2M25G	1788240000
M 25	w. threading		84	HDC 40D SBU 2M25G	1787120000
M 32	w. threading		84	HDC 40D SBU 2M32G	1787110000



Coupling housing



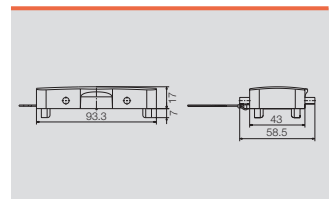
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		79	HDC 40D KBU 1M25G	1787200000
M 32	w. threading		79	HDC 40D KBU 1M32G	1787190000



Cover



Version	Type	Order No.
For bases	HDC 16B DODQ 4B0	1665260000



MixMate series - the high-capacity connectors

830 V, 80 A, Size 6

4 + 0 + ⊕

Inserts

Screw connection



Insert	Type	Order No.
Male	HDC S4/0 MS	1023220000
Female	HDC S4/0 FS	1023210000

Dimensiones

Male

Female

Arrangement of contacts

Male

Female

Housing selection RockStar® IP66
Size 6



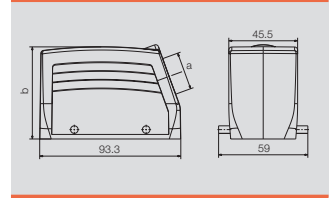
Further housings are available, see
Chapter E for IP66 and Chapter F for IP68

Hood

Plug housing, cable entry sideways



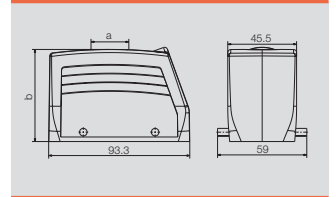
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 16B TSBU 1M25G	1788180000
M 25	w. threading		76	HDC 40D TSBU 1M25G	1787010000
M 32	w. threading		76	HDC 40D TSBU 1M32G	1787000000



Plug housing, cable entry at top



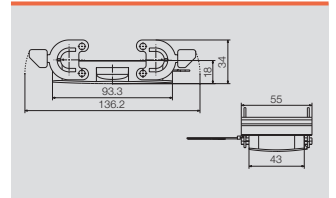
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 16B TOBU 1M25G	1788210000
M 25	w. threading		76	HDC 40D TOBU 1M25G	1787070000
M 32	w. threading		76	HDC 40D TOBU 1M32G	1787060000



Cover



Version	Type	Order No.
For hoods	HDC 16B DMDQ 2QB	1665270000

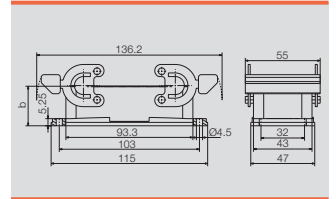


Base

Bulkhead housing



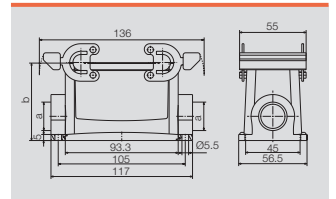
Version	Cover	b (mm)	Type	Order No.
		29	HDC 16B ABU	1208600000



Base housing



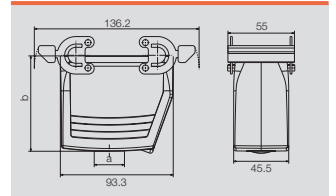
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		64	HDC 16B SBU 2M25G	1788240000
M 25	w. threading		84	HDC 40D SBU 2M25G	1787120000
M 32	w. threading		84	HDC 40D SBU 2M32G	1787110000



Coupling housing



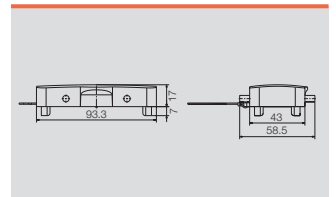
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		79	HDC 40D KBU 1M25G	1787200000
M 32	w. threading		79	HDC 40D KBU 1M32G	1787190000



Cover



Version	Type	Order No.
For bases	HDC 16B DODQ 4B0	1665260000



MixMate series - the high-capacity connectors

830 V, 80 A, Size 6

4 + 2 + ⊕

Inserts

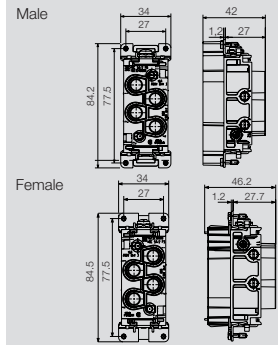
Screw connection



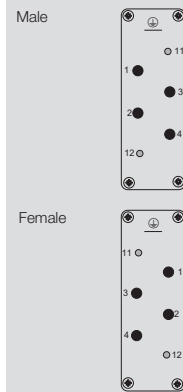
Insert	Type	Order No.
Male	HDC S4/2 MS	1023240000
Female	HDC S4/2 FS	1023230000

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

Dimensions



Arrangement of contacts



Housing selection RockStar® IP66
Size 6



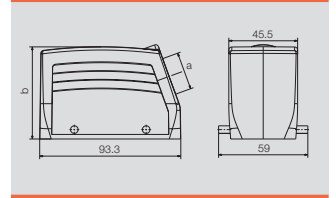
Further housings are available, see
Chapter E for IP66 and Chapter F for IP68

Hood

Plug housing, cable entry sideways



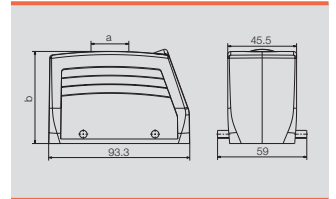
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 16B TSBU 1M25G	1788180000
M 25	w. threading		76	HDC 40D TSBU 1M25G	1787010000
M 32	w. threading		76	HDC 40D TSBU 1M32G	1787000000



Plug housing, cable entry at top



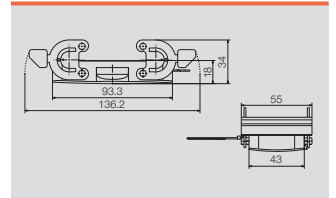
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 16B TOBU 1M25G	1788210000
M 25	w. threading		76	HDC 40D TOBU 1M25G	1787070000
M 32	w. threading		76	HDC 40D TOBU 1M32G	1787060000



Cover



Version	Type	Order No.
For hoods	HDC 16B DMDQ 2QB	1665270000

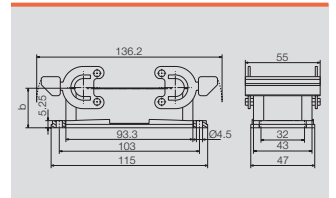


Base

Bulkhead housing



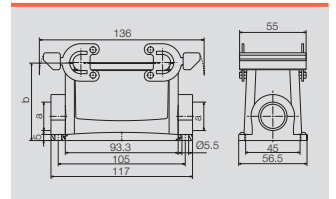
Version	Cover	b (mm)	Type	Order No.
		29	HDC 16B ABU	1208600000



Base housing



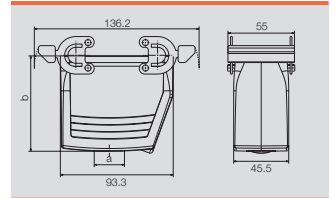
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		64	HDC 16B SBU 2M25G	1788240000
M 25	w. threading		84	HDC 40D SBU 2M25G	1787120000
M 32	w. threading		84	HDC 40D SBU 2M32G	1787110000



Coupling housing



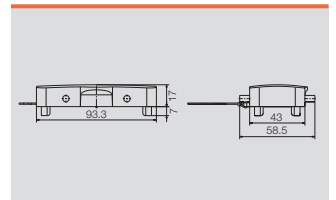
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		79	HDC 40D KBU 1M25G	1787200000
M 32	w. threading		79	HDC 40D KBU 1M32G	1787190000



Cover



Version	Type	Order No.
For bases	HDC 16B DODQ 4B0	1665260000



MixMate series - the high-capacity connectors

690 V, 40 A, Size 6

6 + 36 + ⊕

Inserts

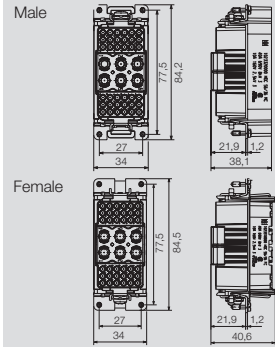
Crimp connection



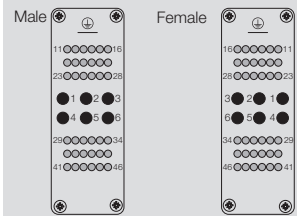
Insert	Type	Order No.
Male	HDC S6/36 MC	1023320000
Female	HDC S6/36 FC	1023310000

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

Dimensions



Arrangement of contacts



Accessories

Crimp contacts for HQ and MixMate inserts

Surface finish silver



Male			Female		
VPE	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

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

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 HX		1002990000
REMOVAL TOOL HD		1866730000

Housing selection RockStar® IP66
Size 6



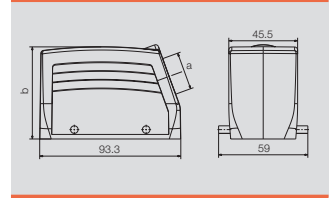
Further housings are available, see
Chapter E for IP66 and Chapter F for IP68

Hood

Plug housing, cable entry sideways



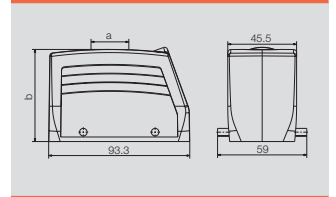
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 16B TSBU 1M25G	1788180000
M 25	w. threading		76	HDC 40D TSBU 1M25G	1787010000
M 32	w. threading		76	HDC 40D TSBU 1M32G	1787000000



Plug housing, cable entry at top



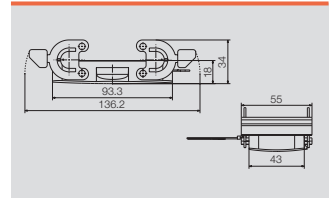
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 16B TOBU 1M25G	1788210000
M 25	w. threading		76	HDC 40D TOBU 1M25G	1787070000
M 32	w. threading		76	HDC 40D TOBU 1M32G	1787060000



Cover



Version	Type	Order No.
For hoods	HDC 16B DMDQ 2QB	1665270000

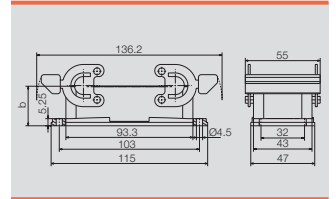


Base

Bulkhead housing



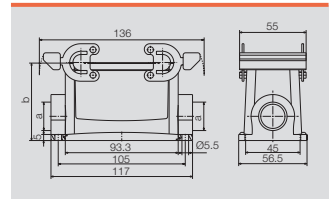
Version	Cover	b (mm)	Type	Order No.
		29	HDC 16B ABU	1208600000



Base housing



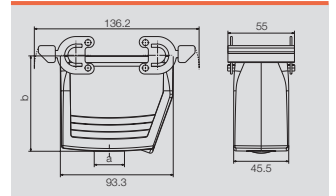
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		64	HDC 16B SBU 2M25G	1788240000
M 25	w. threading		84	HDC 40D SBU 2M25G	1787120000
M 32	w. threading		84	HDC 40D SBU 2M32G	1787110000



Coupling housing



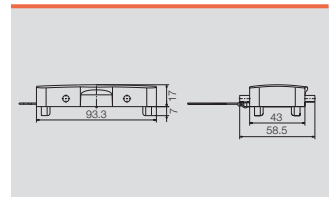
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		79	HDC 40D KBU 1M25G	1787200000
M 32	w. threading		79	HDC 40D KBU 1M32G	1787190000



Cover



Version	Type	Order No.
For bases	HDC 16B DODQ 4B0	1665260000



MixMate series - the high-capacity connectors

690 V, 48 A, Size 6

6 + 12 + ⊕

Inserts

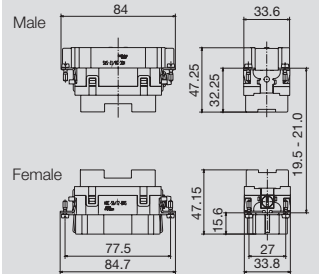
Axial screw connection



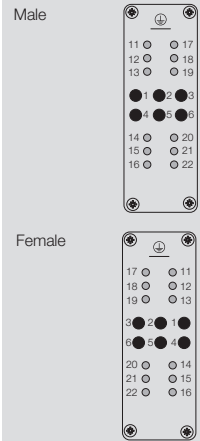
Insert	Type	Order No.
Male	HDC S6 12 SAS	1790000000
Female	HDC S6 12 BAS	1790010000

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

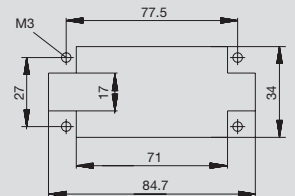
Dimensions



Arrangement of contacts



Mounting cut-out



Housing selection RockStar® IP66
Size 6



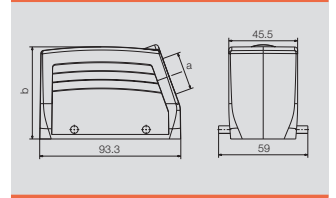
Further housings are available, see
Chapter E for IP66 and Chapter F for IP68

Hood

Plug housing, cable entry sideways



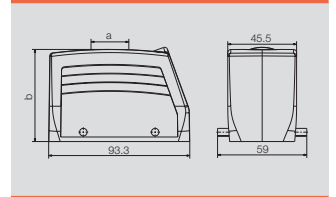
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 16B TSBU 1M25G	1788180000
M 25	w. threading		76	HDC 40D TSBU 1M25G	1787010000
M 32	w. threading		76	HDC 40D TSBU 1M32G	1787000000



Plug housing, cable entry at top



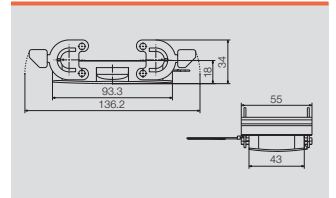
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 16B TOBU 1M25G	1788210000
M 25	w. threading		76	HDC 40D TOBU 1M25G	1787070000
M 32	w. threading		76	HDC 40D TOBU 1M32G	1787060000



Cover



Version	Type	Order No.
For hoods	HDC 16B DMDQ 2QB	1665270000

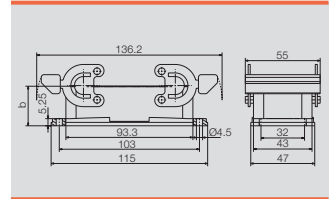


Base

Bulkhead housing



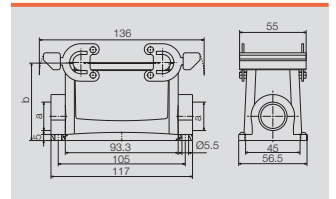
Version	Cover	b (mm)	Type	Order No.
		29	HDC 16B ABU	1208600000



Base housing



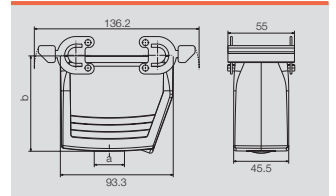
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		64	HDC 16B SBU 2M25G	1788240000
M 25	w. threading		84	HDC 40D SBU 2M25G	1787120000
M 32	w. threading		84	HDC 40D SBU 2M32G	1787110000



Coupling housing



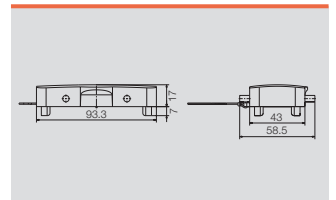
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		79	HDC 40D KBU 1M25G	1787200000
M 32	w. threading		79	HDC 40D KBU 1M32G	1787190000



Cover



Version	Type	Order No.
For bases	HDC 16B DODQ 4B0	1665260000



MixMate series - the high-capacity connectors

690 V, 40 A, Size 6

12 + 2 + ⊕

Inserts

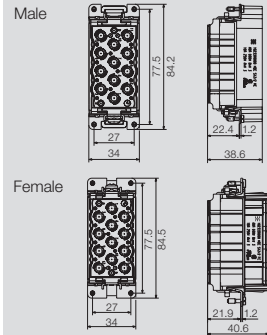
Crimp connection



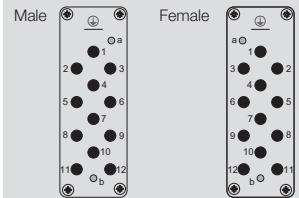
Insert	Type	Order No.
Male	HDC S12/2 MC	1023340000
Female	HDC S12/2 FC	1023330000

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

Dimensions



Arrangement of contacts



Accessories

Crimp contacts for HQ and MixMate inserts

Surface finish silver



Male			Female		
VPE	Type	Order No.	Type	Order No.	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	

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

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 HX	1002990000
REMOVAL TOOL HD	1866730000

Housing selection RockStar® IP66
Size 6



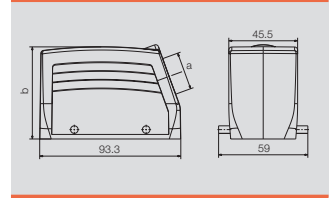
Further housings are available, see
Chapter E for IP66 and Chapter F for IP68

Hood

Plug housing, cable entry sideways



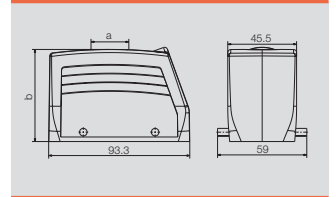
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 16B TSBU 1M25G	1788180000
M 25	w. threading		76	HDC 40D TSBU 1M25G	1787010000
M 32	w. threading		76	HDC 40D TSBU 1M32G	1787000000



Plug housing, cable entry at top



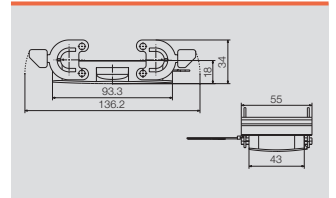
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M 25	w. threading		61	HDC 16B TOBU 1M25G	1788210000
M 25	w. threading		76	HDC 40D TOBU 1M25G	1787070000
M 32	w. threading		76	HDC 40D TOBU 1M32G	1787060000



Cover



Version	Type	Order No.
For hoods	HDC 16B DMDQ 2QB	1665270000

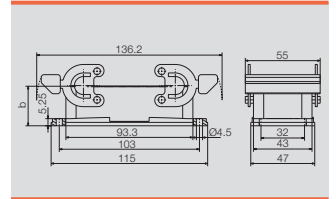


Base

Bulkhead housing



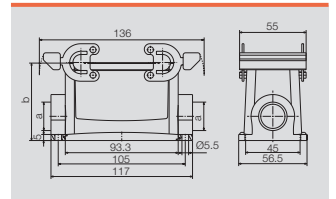
Version	Cover	b (mm)	Type	Order No.
		29	HDC 16B ABU	1208600000



Base housing



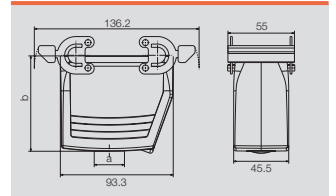
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		64	HDC 16B SBU 2M25G	1788240000
M 25	w. threading		84	HDC 40D SBU 2M25G	1787120000
M 32	w. threading		84	HDC 40D SBU 2M32G	1787110000



Coupling housing



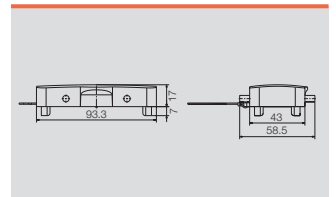
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		79	HDC 40D KBU 1M25G	1787200000
M 32	w. threading		79	HDC 40D KBU 1M32G	1787190000



Cover



Version	Type	Order No.
For bases	HDC 16B DODQ 4B0	1665260000



MixMate series - the high-capacity connectors

400 V, 80 A, Size 8

4 + 8 + ⊕

Inserts

Screw connection



Insert	Type	Order No.
Male	HDC S4/8 MS	1023260000
Female	HDC S4/8 FS	1023250000

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

Dimensions

Male

Female

Arrangement of contacts

Male

Female

Housing selection RockStar® IP66
Size 8



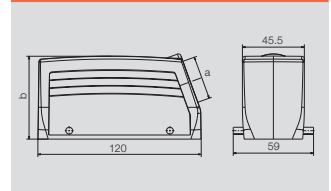
Further housings are available, see
Chapter E for IP66 and Chapter F for IP68

Hood

Plug housing, cable entry sideways



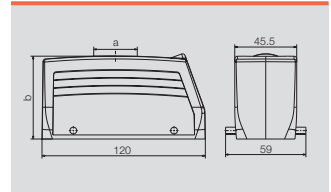
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 24B TSBU 1M25G	1787760000
M 25	w. threading		76	HDC 64D TSBU 1M25G	1786780000
M 32	w. threading		61	HDC 24B TSBU 1M32G	1787750000
M 32	w. threading		76	HDC 64D TSBU 1M32G	1786770000



Plug housing, cable entry at top



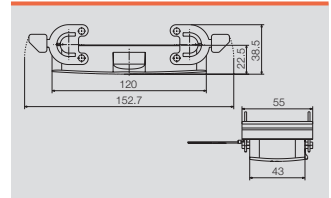
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 24B TOBU 1M25G	1787820000
M 32	w. threading		61	HDC 24B TOBU 1M32G	1787810000
M 32	w. threading		76	HDC 64D TOBU 1M32G	1786830000



Cover



Version	Type	Order No.
For hoods	HDC 24B DMDQ 2QB	1665640000

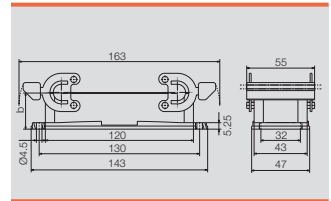


Base

Bulkhead housing



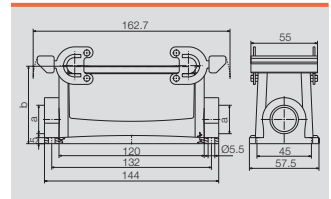
Version	Cover	b (mm)	Type	Order No.
		29.3	HDC 24B ABU	1212400000



Base housing



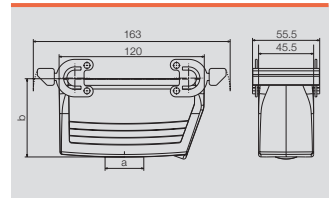
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		64	HDC 24B SBU 2M25G	1787870000
M 25	w. threading		84	HDC 64D SBU 2M25G	1786890000
M 32	w. threading		84	HDC 64D SBU 2M32G	1786880000



Coupling housing



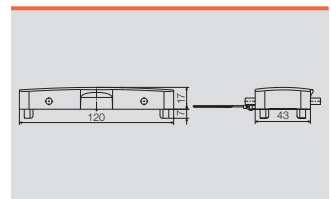
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		65	HDC 24B KBU 1M25G	1787920000
M 32	w. threading		79	HDC 64D KBU 1M32G	1786960000



Cover



Version	Type	Order No.
For bases	HDC 24B DODQ 4B0	1665630000



MixMate series - the high-capacity connectors

690 V, 100 A, Size 8

6 + 6 + ⊕

Inserts

Axial screw connection



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

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

Dimensions

Arrangement of contacts

Male

Female

Mounting cut-out

Housing selection RockStar® IP66
Size 8



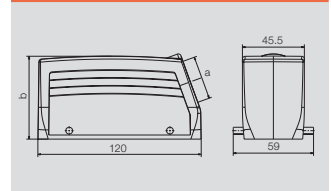
Further housings are available, see
Chapter E for IP66 and Chapter F for IP68

Hood

Plug housing, cable entry sideways



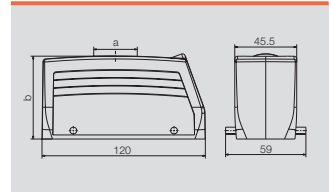
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 24B TSBU 1M25G	1787760000
M 25	w. threading		76	HDC 64D TSBU 1M25G	1786780000
M 32	w. threading		61	HDC 24B TSBU 1M32G	1787750000
M 32	w. threading		76	HDC 64D TSBU 1M32G	1786770000



Plug housing, cable entry at top



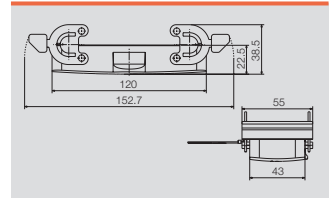
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 24B TOBU 1M25G	1787820000
M 32	w. threading		61	HDC 24B TOBU 1M32G	1787810000
M 32	w. threading		76	HDC 64D TOBU 1M32G	1786830000



Cover



Version	Type	Order No.
For hoods	HDC 24B DMDQ 2QB	1665640000

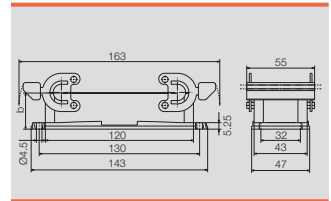


Base

Bulkhead housing



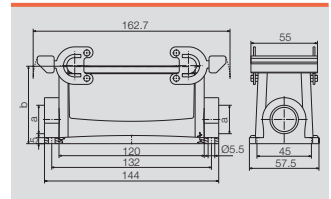
Version	Cover	b (mm)	Type	Order No.
		29.3	HDC 24B ABU	1212400000



Base housing



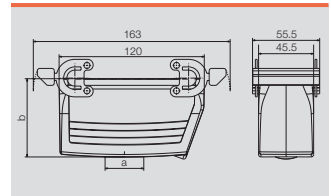
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		64	HDC 24B SBU 2M25G	1787870000
M 25	w. threading		84	HDC 64D SBU 2M25G	1786890000
M 32	w. threading		84	HDC 64D SBU 2M32G	1786880000



Coupling housing



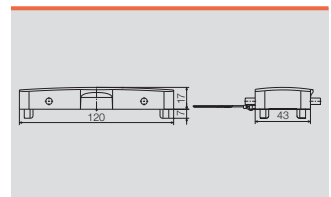
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		65	HDC 24B KBU 1M25G	1787920000
M 32	w. threading		79	HDC 64D KBU 1M32G	1786960000



Cover



Version	Type	Order No.
For bases	HDC 24B DODQ 4B0	1665630000



MixMate series - the high-capacity connectors

690 V, 100 A, Size 8

8 + 0 + ⊕

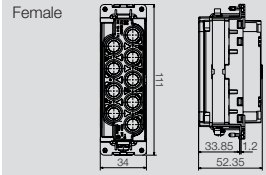
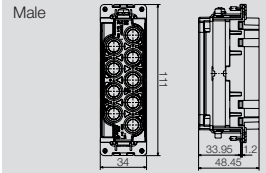
Inserts

Axial screw connection

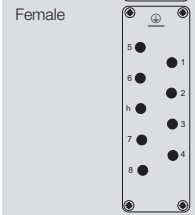
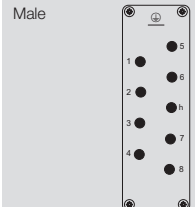


Insert	Type	Order No.
Male	HDC S8/0 MAS	1023360000
Female	HDC S8/0 FAS	1023350000

Dimensions



Arrangement of contacts



Housing selection RockStar® IP66
Size 8



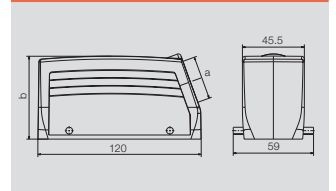
Further housings are available, see
Chapter E for IP66 and Chapter F for IP68

Hood

Plug housing, cable entry sideways



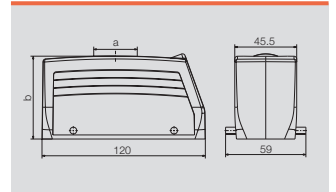
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 24B TSBU 1M25G	1787760000
M 25	w. threading		76	HDC 64D TSBU 1M25G	1786780000
M 32	w. threading		61	HDC 24B TSBU 1M32G	1787750000
M 32	w. threading		76	HDC 64D TSBU 1M32G	1786770000



Plug housing, cable entry at top



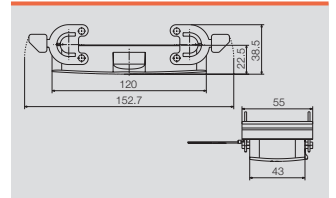
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 24B TOBU 1M25G	1787820000
M 32	w. threading		61	HDC 24B TOBU 1M32G	1787810000
M 32	w. threading		76	HDC 64D TOBU 1M32G	1786830000



Cover



Version	Type	Order No.
For hoods	HDC 24B DMDQ 2QB	1665640000

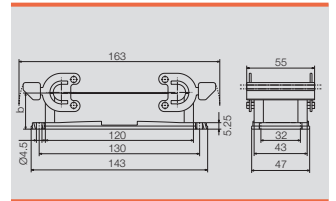


Base

Bulkhead housing



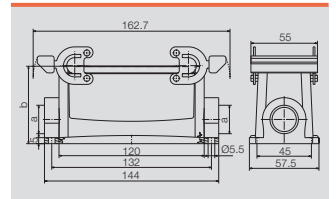
Version	Cover	b (mm)	Type	Order No.
		29.3	HDC 24B ABU	1212400000



Base housing



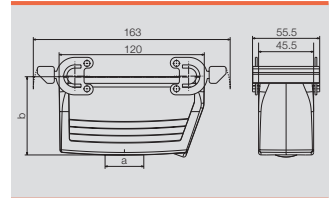
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		64	HDC 24B SBU 2M25G	1787870000
M 25	w. threading		84	HDC 64D SBU 2M25G	1786890000
M 32	w. threading		84	HDC 64D SBU 2M32G	1786880000



Coupling housing



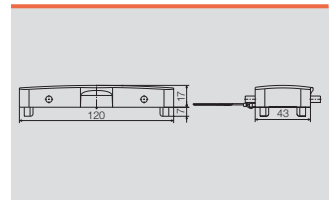
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		65	HDC 24B KBU 1M25G	1787920000
M 32	w. threading		79	HDC 64D KBU 1M32G	1786960000



Cover



Version	Type	Order No.
For bases	HDC 24B DODQ 4B0	1665630000



RockStar® HighPower

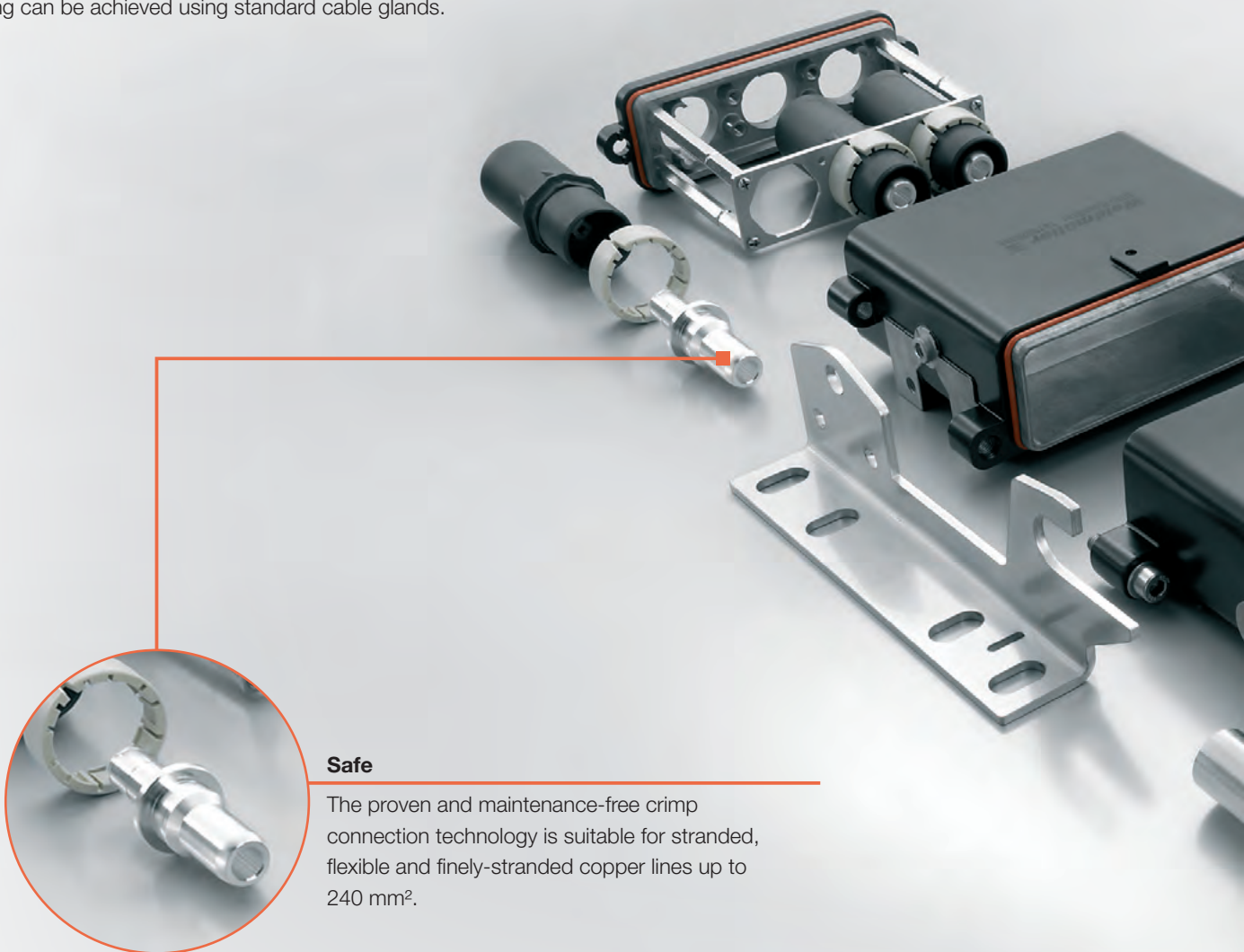
RockStar® HighPower	Introduction	C.2
	HighPower 250 A	C.4
	4000 V	
	250 A	
	1 – 4 poles	
	HighPower 550 A	C.10
	4000 V	
	550 A	
	1 – 3 poles	

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. It consists of one-piece crimp contacts, insulating sleeves, insert-holder frames and a multi-part die-cast aluminium housing in IP68 and IP69K.

C

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.



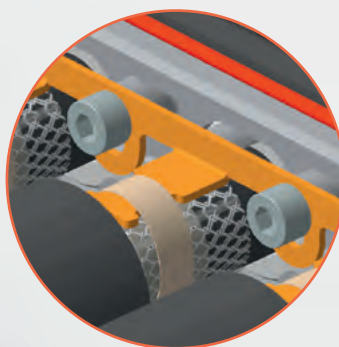
Safe

The proven and maintenance-free crimp connection technology is suitable for stranded, flexible and finely-stranded copper lines up to 240 mm².



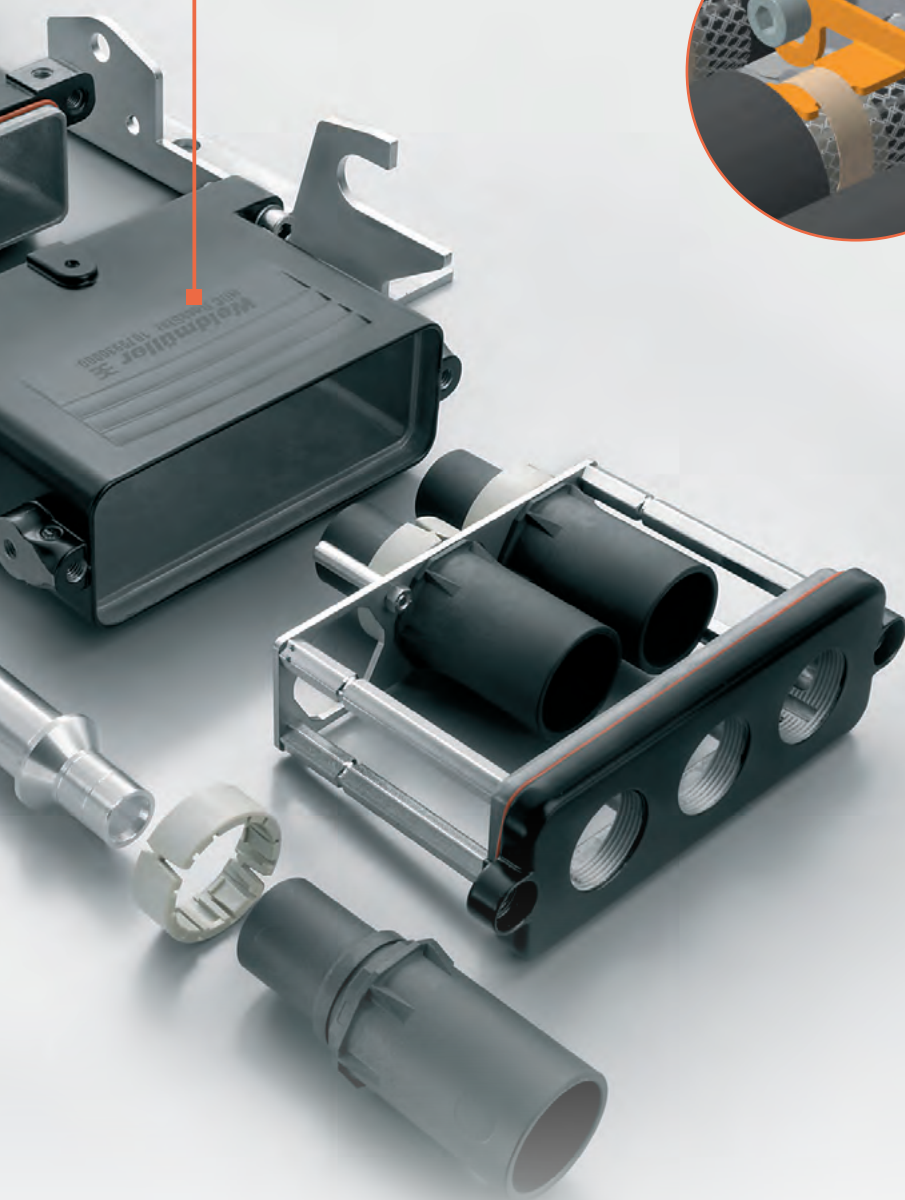
Practical

Durable laser marking is applied directly onto the housing – enables quick recognition and simple re-ordering.



Optimised shielding

An integrated shield connection in the housing makes the use of standard cable glands possible.



HighPower 250 A

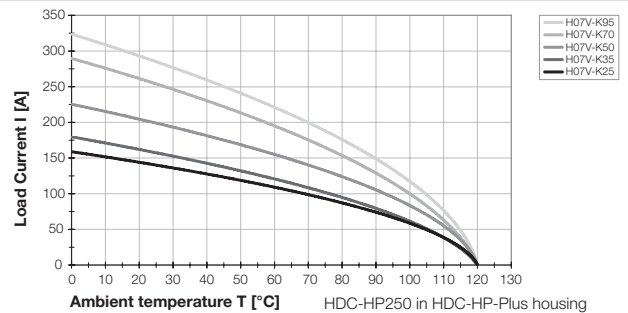
RockStar® HighPower is designed to meet the strict standards set by DIN EN 61373 Cat. 2 (pivot mounting). The coordinated connector components provide you with a fail-safe and maintenance-free power transmission solution: in this case up to 250 A / 4000 V.




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	4000 V (4800 V)*
AC wire – earthed housing	2300 V (3000 V)*
DC wire – wire	4000 V (4800 V)*
DC wire – earthed housing	2300 V (3000 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 ... +120 °C
HDC IP68 HP 24B 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 ... +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 ... +130 °C
Class of protection	IP68
Note:	*4800 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.

Derating curves



Overview

	Size	Rated voltage	Rated current	No. of poles	Tension clamp connection	Screw conn. with wire guard spring	Crimp connection	PUSH IN connection	Axial screw connection	Page
	8	4000 V	250 A	1 – 4			•			C.6

RockStar® HighPower 250 A

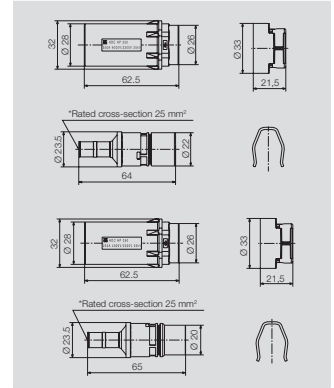
Crimp contacts

Crimp contact



Wire connection cross-section*	Male	Order No.	Female	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 Male		Order No.	Insulated PE contact Female	Order No.
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.

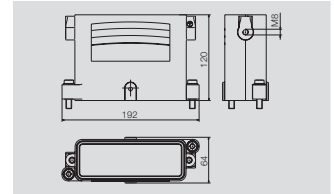


Housings

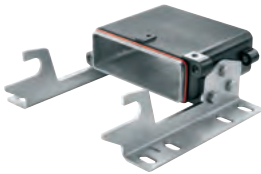
Plug housing



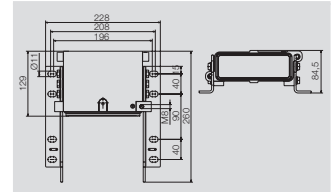
Designation	Type	Order No.
Plug housing	HDC IP68 HP 24B TO	1079930000



Base housing



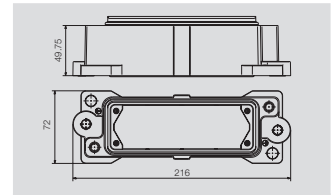
Designation	Type	Order No.
Base housing	HDC IP68 HP 24B AS S	1079920000



Bulkhead housing



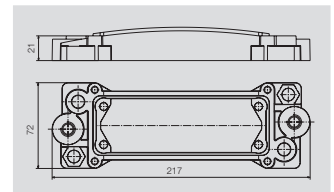
Designation	Type	Order No.
Bulkhead housing	HDC IP68 HP 24B A	1120040000



Counter-frame



Designation	Type	Order No.
Counter-frame	HDC IP68 24B HP FRAME	1282820000



RockStar® HighPower 250 A

Housings

Mounting cover



Designation	Type	Order No.
Mounting cover without thread	HDC IP68 HP 24B MD	1119950000
Mounting cover 3 threads M40	HDC IP68 HP 24B MD 3M40	1119970000
Mounting cover 3 threads M32	HDC IP68 24B MD 3M32	1119980000
Mounting cover 3 threads M25	HDC IP68 HP 24B MD 3M25	1079910000
Mounting cover 4 threads M25	HDC IP68 24B MD 4M25 T1	1160450000
Mounting cover 2 threads M40	HDC IP68 HP 24B MD 2M40	1119990000
Mounting cover 2 threads M32	HDC IP68 HP 24B MD 2M32	1120000000
Mounting cover 2 threads M25	HDC IP68 HP 24B MD 2M25	1120010000
Mounting cover 4 threads M25	HDC IP68 24B MD 4M25 T2	1220860000

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.

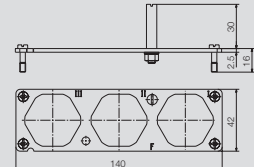
Accessories

Mounting frame

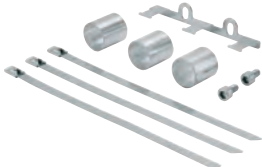


Designation	Type	Order No.
BG 3 for 1 HP 250 Female	HDC 06B HP250 MPL1	1103680000
BG 8 for 2 HP 250 Female	HDC 24B HP250 MPL2 TYP1	1103690000
BG 8 for 2 HP 250 Male	HDC 24B HP250 MPL2 TYP2	1103740000
BG 8 for 3 HP 250 Female	HDC 24B HP250 MPL3 TYP1	1079640000
BG 8 for 3 HP 250 Male	HDC 24B HP250 MPL3 TYP2	1103750000
BG 8 for 3 HP 250 Female + PE	HDC 24B HP250 MPL4PE T1	1212890000
BG 8 for 3 HP 250 Male + PE	HDC 24B HP250 MPL4PE T2	1212910000
BG 8 for 4 HP 250 Female	HDC 24B HP250 MPL4 TYP1	1160430000
BG 8 for 4 HP 250 Male	HDC 24B HP250 MPL4 TYP2	1160440000

Note: Coding pins can be used for additional coding of the mounting frame; refer to Chapter J.



EMC – Shield lever



Designation	Type	Order No.
BG 8 for 2 x 16 ² - 25 ²	HDC 24B SL 2X16-25	1160410000
BG 8 for 3 x 16 ² - 25 ²	HDC 24B SL 3X16-25	1160390000
BG 8 for 4 x 16 ² - 25 ²	HDC 24B SL 4X16-25 T1	1220770000
BG 8 for 4 x 16 ² - 25 ²	HDC 24B SL 4X16-25 T2	1220820000
BG 8 for 2 x 35 ²	HDC 24B SL 2X35	1232740000
BG 8 for 3 x 35 ²	HDC 24B SL 3X35	1232720000
BG 8 for 4 x 35 ²	HDC 24B SL 4X35 T1	1232770000
BG 8 for 4 x 35 ²	HDC 24B SL 4X35 T2	1232790000
BG 8 for 2 x 50 ²	HDC 24B SL 2X50	1160420000
BG 8 for 3 x 50 ²	HDC 24B SL 3X50	1160400000
BG 8 for 4 x 50 ²	HDC 24B SL 4X50 T1	1220760000
BG 8 for 4 x 50 ²	HDC 24B SL 4X50 T2	1220810000
BG 8 for 2 x 70 ²	HDC 24B SL 2X70	1232750000
BG 8 for 3 x 70 ²	HDC 24B SL 3X70	1232730000
BG 8 for 4 x 70 ²	HDC 24B SL 4X70T1	1232760000
BG 8 for 4 x 70 ²	HDC 24B SL 4X70T2	1232780000
BG 8 for 2 x 95 ²	HDC 24B SL 2X95	1119900000
BG 8 for 3 x 95 ²	HDC 24B SL 3X95	1079650000
BG 8 for 4 x 95 ²	HDC 24B SL 4X95 T1	1220750000
BG 8 for 4 x 95 ²	HDC 24B SL 4X95 T2	1220790000

Note: In the four-pole version, please select the EMC shield clamp corresponding to the mounting plates.

Touch-safe protection set



Designation	Type	Order No.
Touch-safe protection set HP 250	HDC HP 250 SHOCKPROTEC	1120130000

RockStar® HighPower

RockStar® HighPower 250 A

Accessories

Cable glands



Designation	Type	Order No.
M25, Stainless steel, clamping range 11-20	VGM25-SS68 11-20 BG	1193570000
M32, Stainless steel, clamping range 15-25	VGM32-SS68 15-25 BG	1193580000
M40, Stainless steel, clamping range 20-32	VGM40-SS68 20-32 BG	1193590000
M40, Stainless steel, clamping range 20-32; Elongated version	VGM40/1-SS68 20-32 BG	1205920000
M25, Brass, nickel-plated, clamping range 11-20	VGM25-MS68 11-20 BG	1193600000
M32, Brass, nickel-plated, clamping range 15-25	VGM32-MS68 15-25 BG	1193610000
M40, Brass, nickel-plated, clamping range 20-32	VGM40-MS68 20-32 BG	1193620000
M40, Brass, nickel-plated, clamping range 20-32; Elongated version	VGM40/1-MS68 20-32 BG	1205890000

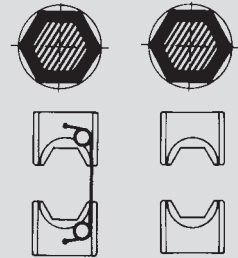
Note: When using mounting lids with 3 M40 cable entry threads, the elongated version must be used for the cable gland in the middle.

Hand crimping tools

Hand crimping tools



Designation	Type	Order No.
Hand crimping tool 10 ... 240 mm ²	MTR 160	9017250000
Crimping inserts 25°, Crimping width 7.0 mm	EINSATZ MTR 160 25HEX	9020920000
Crimping inserts 35°, Crimping width 7.0 mm	EINSATZ MTR 160 35HEX	9020930000
Crimping inserts 50°, Crimping width 7.0 mm	EINSATZ MTR 160 50HEX	9020940000
Crimping inserts 70°, Crimping width 7.0 mm	EINSATZ MTR 160 70HEX	9020950000
Crimping inserts 95°, Crimping width 7.0 mm	EINSATZ MTR 160 95HEX	9020960000
Hand crimping tool 10 ... 300 mm ²	MTR 300	9021390000
Crimping inserts 25°, Crimping width 7.0 mm	EINSATZ MTR 300 25HEX	9021450000
Crimping inserts 35°, Crimping width 7.0 mm	EINSATZ MTR 300 35HEX	9021460000
Crimping inserts 50°, Crimping width 7.0 mm	EINSATZ MTR 300 50HEX	9021470000
Crimping inserts 70°, Crimping width 7.0 mm	EINSATZ MTR 300 70HEX	9021480000
Crimping inserts 95°, Crimping width 7.0 mm	EINSATZ MTR 300 95HEX	9022290000



HighPower 550 A

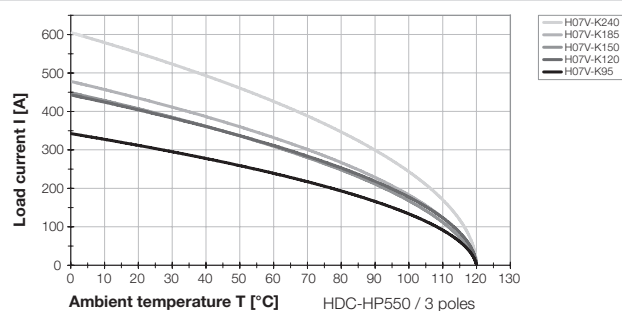
RockStar® HighPower is designed to meet the strict standards set by DIN EN 61373 Cat. 2 (pivot mounting). The coordinated connector components provide you with a fail-safe and maintenance-free power transmission solution: in this case up to 550 A / 4000 V.




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	4000 V (4800 V)*
AC wire – earthed housing	3000 V
DC wire – wire	4000 V (4800 V)*
DC wire – earthed housing	3000 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 ... +120 °C
HDC IP68 HP 24B 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 ... +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 ... +130 °C
Class of protection	IP68
Note:	*4800 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.

Derating curves



Overview

	Size	Rated voltage	Rated current	No. of poles	Tension clamp connection	Screw conn. with wire guard spring	Crimp connection	PUSH IN connection	Axial screw connection	Page
	8	4000 V	550 A	1 – 3			•			C.12

RockStar® HighPower

RockStar® HighPower 550 A

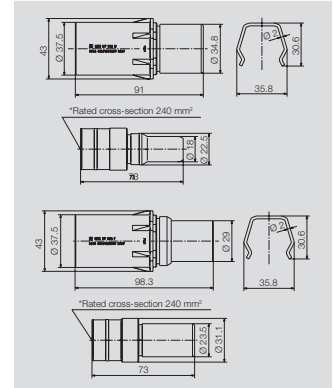
Crimp contacts

Crimp contact



Wire connection cross-section*	Male	Order No.	Female	Order No.
50 mm ²	HDC HP 550 M 50	1157800000	HDC HP 550 F 50	1177100000
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

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.

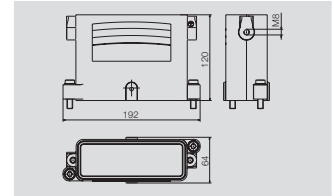


Housings

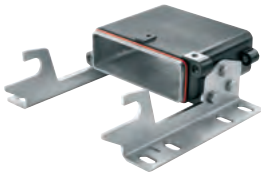
Plug housing



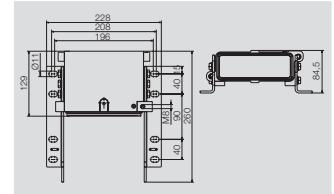
Designation	Type	Order No.
Plug housing	HDC IP68 HP 24B TO	1079930000



Base housing



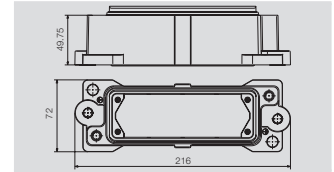
Designation	Type	Order No.
Base housing	HDC IP68 HP 24B AS S	1079920000



Bulkhead housing



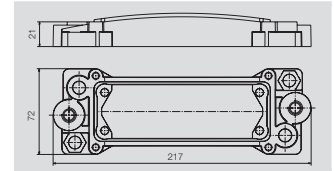
Designation	Type	Order No.
Bulkhead housing	HDC IP68 HP 24B A	1120040000



Counter-frame



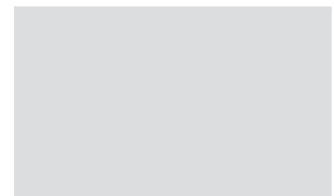
Designation	Type	Order No.
Counter-frame	HDC IP68 24B HP FRAME	1282820000



Mounting cover



Designation	Type	Order No.
Mounting cover without thread	HDC IP68 HP 24B MD	1119950000
Mounting cover 3 threads M40	HDC IP68 HP MD 3M40	1119970000
Mounting cover 3 threads M32	HDC IP68 HP MD 3M32	1119980000
Mounting cover 3 threads M25	HDC IP68 HP 24B MD 3M25	1079910000
Mounting cover 2 threads M40	HDC IP68 HP 24B MD 2M40	1119990000
Mounting cover 2 threads M32	HDC IP68 HP 24B MD 2M32	1120000000
Mounting cover 2 threads M25	HDC IP68 HP 24B MD 2M25	1120010000



RockStar® HighPower 550 A

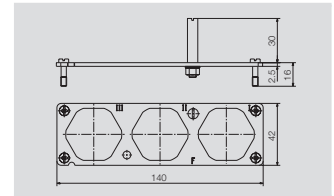
Accessories

Mounting frame

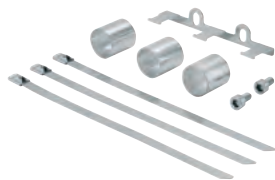


Designation	Type	Order No.
BG 8 for 2 HP 550 Female	HDC 24B HP550 MPL2 TYP1	1103710000
BG 8 for 2 HP 550 Male	HDC 24B HP550 MPL2 TYP2	1103770000
BG 8 for 3 HP 550 Female	HDC 24B HP550 MPL3 TYP1	1103720000
BG 8 for 3 HP 550 Male	HDC 24B HP550 MPL3 TYP2	1103780000

Note: Coding pins can be used for additional coding of the mounting frame; refer to Chapter J.



EMC – Shield lever



Designation	Type	Order No.
BG 8 for 2 x 50°	HDC 24B SL 2X50	1160420000
BG 8 for 3 x 50°	HDC 24B SL 3X50	1160400000
BG 8 for 2 x 70°	HDC 24B SL 2X70	1232750000
BG 8 for 3 x 70°	HDC 24B SL 3X70	1232730000
BG 8 for 2 x 95°	HDC 24B SL 2X95	1119900000
BG 8 for 3 x 95°	HDC 24B SL 3X95	1079650000
BG 8 for 2 x 120°	HDC 24B SL 2X120	1232700000
BG 8 for 3 x 120°	HDC 24B SL 3X120	1232680000
BG 8 for 2 x 150°	HDC 24B SL 2X150	1119910000
BG 8 for 3 x 150°	HDC 24B SL 3X150	1119880000
BG 8 for 2 x 185°	HDC 24B SL 2X185	1232710000
BG 8 for 3 x 185°	HDC 24B SL 3X185	1232690000
BG 8 for 2 x 240°	HDC 24B SL 2X240	1119920000
BG 8 for 3 x 240°	HDC 24B SL 3X240	1119890000

Touch-safe protection set



Designation	Type	Order No.
Touch-safe protection set HP 550	HDC HP 550 SHOCKPROTEC	1120140000

Cable glands



Designation	Type	Order No.
M25, Stainless steel, clamping range 11-20	VGM25-SS68 11-20 BG	1193570000
M32, Stainless steel, clamping range 15-25	VGM32-SS68 15-25 BG	1193580000
M40, Stainless steel, clamping range 20-32	VGM40-SS68 20-32 BG	1193590000
M40, Stainless steel, clamping range 20-32; Elongated version	VGM40/1-SS68 20-32 BG	1205920000
M25, Brass, nickel-plated, clamping range 11-20	VGM25-MS68 11-20 BG	1193600000
M32, Brass, nickel-plated, clamping range 15-25	VGM32-MS68 15-25 BG	1193610000
M40, Brass, nickel-plated, clamping range 20-32	VGM40-MS68 20-32 BG	1193620000
M40, Brass, nickel-plated, clamping range 20-32; Elongated version	VGM40/1-MS68 20-32 BG	1205890000

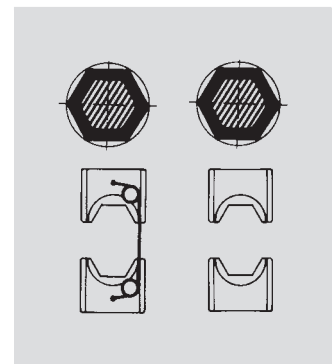
Note: When using mounting lids with 3 M40 cable entry threads, the elongated version must be used for the cable gland in the middle.

Hand crimping tools

Hand crimping tools



Designation	Type	Order No.
Hand crimping tool	MTR 160	9017250000
Crimping inserts 50°, Crimping width 7.0 mm	EINSATZ MTR 160 50HEX	9020940000
Crimping inserts 95°, Crimping width 7.0 mm	EINSATZ MTR 160 95HEX	9020960000
Crimping inserts 120°, Crimping width 7.0 mm	EINSATZ MTR 160 120HEX	9020970000
Crimping inserts 150°, Crimping width 7.0 mm	EINSATZ MTR 160 150HEX	9020980000
Crimping inserts 185°, Crimping width 7.0 mm	EINSATZ MTR 160 185HEX	9020990000
Crimping inserts 240°, Crimping width 7.0 mm	EINSATZ MTR 160 240HEX	9021000000
Hand crimping tool	MTR 300	9021390000
Crimping inserts 50°, Crimping width 7.0 mm	EINSATZ MTR 300 50HEX	9021470000
Crimping inserts 95°, Crimping width 7.0 mm	EINSATZ MTR 300 95HEX	9022290000
Crimping inserts 120°, Crimping width 7.0 mm	EINSATZ MTR 300 120HEX	9022300000
Crimping inserts 150°, Crimping width 7.0 mm	EINSATZ MTR 300 150HEX	9022310000
Crimping inserts 185°, Crimping width 7.0 mm	EINSATZ MTR 300 185HEX	9022320000
Crimping inserts 240°, Crimping width 7.0 mm	EINSATZ MTR 300 240HEX	9022330000



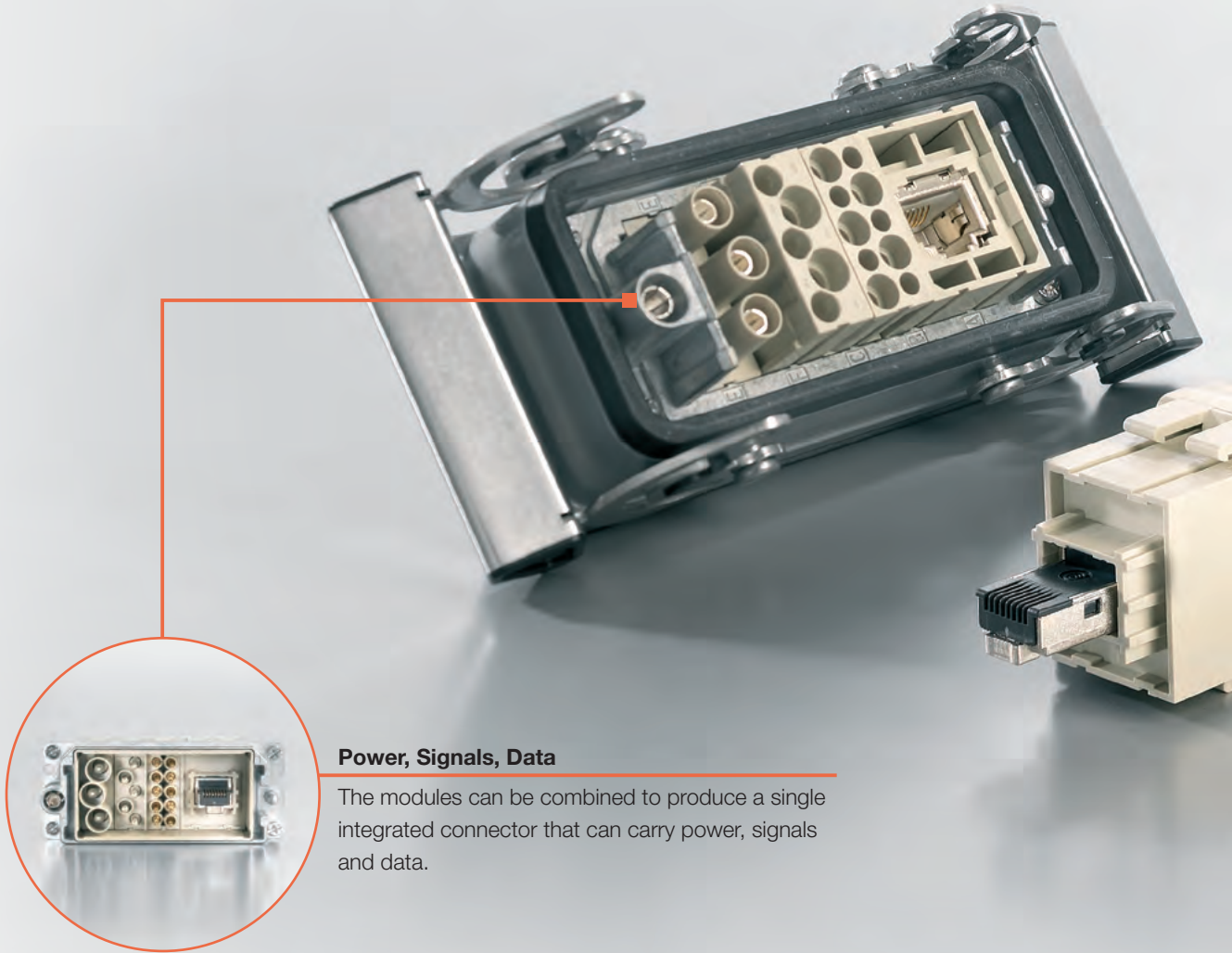
RockStar® ConCept modular system

RockStar® ConCept modular system	Introduction	D.2
	ConCept modules	D.4
	1 - 10 poles	
	ConCept bus modules	D.12
	2 - 16 poles	
	ConCept ST	D.20
	2 - 10 poles	
	ConCept pneumatic modules	D.23
	1 - 2 poles	
	ConCept module frame	D.24
	Size 3 - 8	
	ModuFlex C	D.44
	Coupling frame 1 - 5 modules	

RockStar® ConCept modular system

ConCept is a modular system consisting of modules for electrical, optical and pneumatic connections as well as module frames in various sizes. Together, the modules and frames form a full connector insert. The key advantage with ConCept is that you can combine multiple functions together. You can create a connector according to your requirements; this saves space and money compared to the use of multiple fixed-pole inserts.

D ConCept is simple to work with and can easily be integrated into an HDC housing in IP66 or IP68. The ConCept modules can also be used individually in ModuFlex-C coupling frames and snapped together to form a block which can then be used in IP20 environments. ConCept can in this way be used on DIN rails, in cable conduits or on flat surfaces.



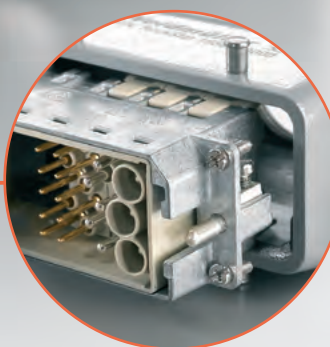
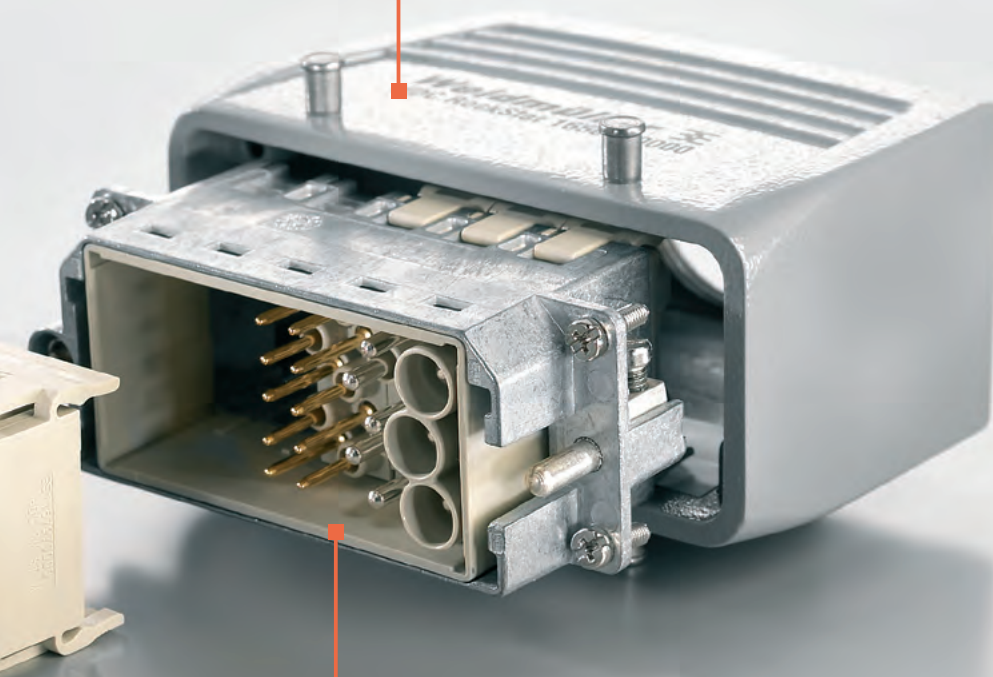
Power, Signals, Data

The modules can be combined to produce a single integrated connector that can carry power, signals and data.



Flexible

Because of its unique platform design, the ConCept ST module can be fitted with up to eight different data inserts.



Sturdy

The optimal protection for the modules is provided by the solid module frame which is made of plastic or die-cast zinc.

ConCept modules

CM-3 Concept module / turned contacts

Technical data

Contact inserts

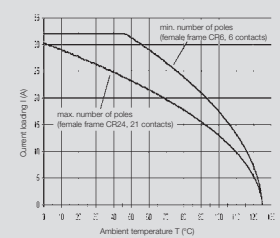
Rated current (DIN EN 61984)	40 A
Rated voltage (DIN EN 61984)	690 V
Rated impulse voltage (DIN EN 61984)	8 kV
Pollution severity	3
Insulation resistance	10 ¹² Ω
Surge voltage category	III
Volume resistance	≤ 1 mΩ
Flammability class UL 94	V-0

Contacts

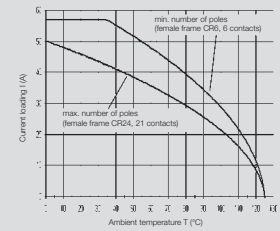
Contact diameter, male Ø	3.6 mm
Connection cross-section	1.5-10 mm ²
AWG conductor	AWG 16-AWG 7
Material	Polycarbonate, glass fibre reinforced

Note

Rated voltage 1000 V / 8 kV at pollution degree 2. For conductor cross-sections of 6 mm² to 10 mm², you must use ring cable lugs at the connection to the PE conductor. With the 690-V rated voltage, this also covers three-phase 4-wire or 3-wire AC-voltage systems with rated voltages up to 690 V – according to DIN EN 60664-1. When used properly and as designated, the listed connectors may not be connected or disconnected if there is a live voltage or load!



ConCept module CM-3
Conductor H07V-K 4.0 mm²



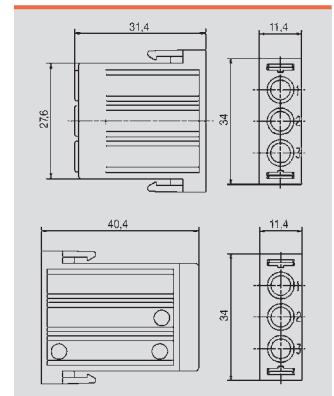
ConCept module CM-3
Conductor H07V-K 10.0 mm²

Modules

Crimp connection



Type	Type	Order No.
Male	HDC CM 3 MC	1758360000
Female	HDC CM 3 FC	1758370000



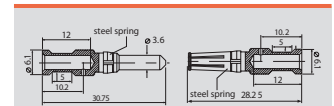
Accessories

Crimp contacts

Surface finish silver



Male			Female		
Qty.	Type	Order No.	Type	Order No.	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	



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

Tools



Crimping tool	
CTX CM 3.6	9018480000
Contact Removal Tool	
Removal Tool CM 3	1866710000

CM-HE Concept module / turned contacts

Technical data

Contact inserts

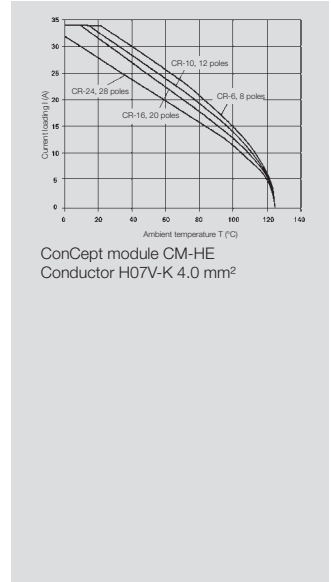
Rated current (DIN EN 61984)	25 A
Rated voltage (DIN EN 61984)	630 V
Rated impulse voltage (DIN EN 61984)	8 kV
Pollution severity	3
Insulation resistance	10 ¹² Ω
Surge voltage category	III
Volume resistance	≤ 2mΩ
Flammability class UL 94	V-0

Contacts

Contact diameter, male Ø	2.5 mm
Connection cross-section	0.5-4 mm ²
AWG conductor	AWG 20-AWG 12
Material	Polycarbonate, glass fibre reinforced

Note

Rated voltage 1000 V / 8 kV at pollution degree 2. For conductor cross-sections ≤ 0.75 mm², you must use wire-end ferrules at the connection to the PE conductor. When used properly and as designated, the listed connectors may not be connected or disconnected if there is a live voltage or load!

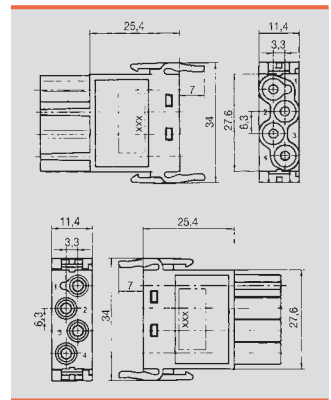


Modules

Crimp connection



Type	Type	Order No.
Male	HDC CM HE 4 MC	1861920000
Female	HDC CM HE 4 FC	1861900000



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-SM0.75-1.00AG	1651430000	HDC-C-HE-BM0.75-1.00AG	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-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
Contact Removal Tool	
Removal Tool HE	1866750000

ConCept modules

CM-4 Concept module with tension spring connection

Technical data

Contact inserts

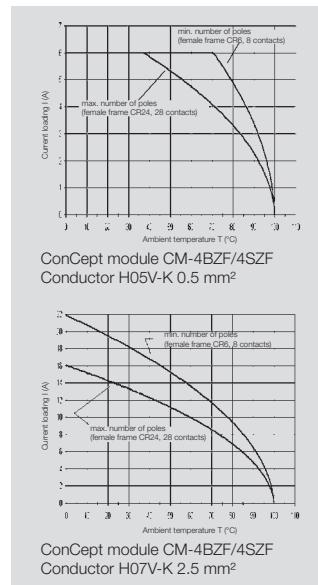
Rated current (DIN EN 61984)	14 A
Rated voltage (DIN EN 61984)	400 V
Rated impulse voltage (DIN EN 61984)	6 kV
Pollution severity	3
Insulation resistance	10 ¹² Ω
Surge voltage category	III
Volume resistance	1.5 mΩ
Flammability class UL 94	V-0

Contacts

Contact diameter, male Ø	2.5 mm
Connection cross-section	0.5-2.5 mm ²
AWG conductor	AWG 20-AWG 14
Material	Polycarbonate, glass fibre reinforced

Note

For conductor cross-sections ≤ 0.75 mm², you must use wire-end ferrules at the connection to the PE conductor.
When used properly and as designated, the listed connectors may not be connected or disconnected if there is a live voltage or load!

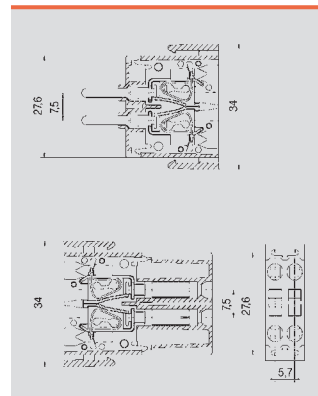


Modules

Tension clamp connection



Type	Type	Order No.
Male	HDC-CM-4SZF AG	1730120000
Female	HDC-CM-4BZF AG	1730130000



CM-5 Concept module / turned contacts

Technical data

Contact inserts

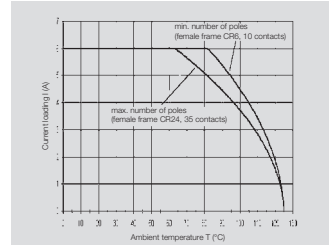
Rated current (DIN EN 61984)	20 A
Rated voltage (DIN EN 61984)	250 V
Rated impulse voltage (DIN EN 61984)	6 kV
Pollution severity	3
Insulation resistance	10 ¹² Ω
Surge voltage category	III
Volume resistance	≤ 2mΩ
Flammability class UL 94	V-0

Contacts

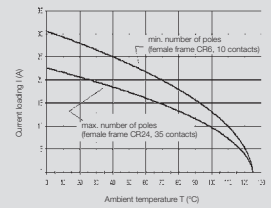
Contact diameter, male Ø	2.5 mm
Connection cross-section	0.5-4 mm ²
AWG conductor	AWG 20-AWG 12
Material	Polycarbonate, glass fibre reinforced

Note

Rated voltage 500 V / 6 kV at pollution degree 2. For conductor cross-sections ≤ 0.75 mm², you must use wire-end ferrules at the connection to the PE conductor. When used properly and as designated, the listed connectors may not be connected or disconnected if there is a live voltage or load!



ConConcept module CM-5
Conductor H05V-K 0.5 mm²



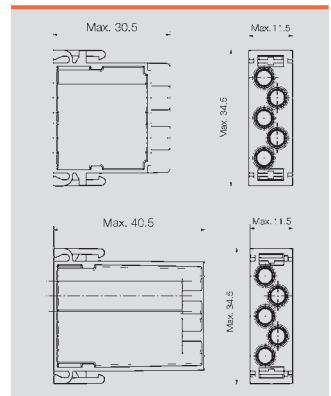
ConConcept module CM-5
Conductor H07V-K 4.0 mm²

Modules

Crimp connection



Type	Type	Order No.
Male	HDC CM 5 MC	1758380000
Female	HDC CM 5 FC	1758390000



Accessories

Crimp contacts

Surface finish silver



Male			Female		
Qty.	Type	Order No.	Type	Order No.	Order No.
100	HDC-C-M5-SM0.5AG	1682320000	HDC-C-M5-BM0.5AG	1682330000	
100	HDC-C-M5-SM0.75-1.0AG	1682340000	HDC-C-M5-BM0.75-1.0AG	1682350000	
100	HDC-C-M5-SM1.5AG	1682360000	HDC-C-M5-BM1.5AG	1682370000	
100	HDC-C-M5-SM2.5AG	1682380000	HDC-C-M5-BM2.5AG	1682390000	
100	HDC-C-M5-SM4.0AG	1682400000	HDC-C-M5-BM4.0AG	1682410000	

Conductor cross-section	Insulation stripping length	
0.75 - 1.00 mm ²	AWG 18	7 mm
1.50 mm ²	AWG 16	7 mm
2.50 mm ²	AWG 14	7 mm
4.00 mm ²	AWG 12	7 mm

Tools



Crimping tool	
CTX CM 1.6/2.5	9018490000
Contact Removal Tool	
Removal Tool CM 5	1866720000

ConCept modules

CM-10 Concept module / turned contacts

Technical data

Contact inserts

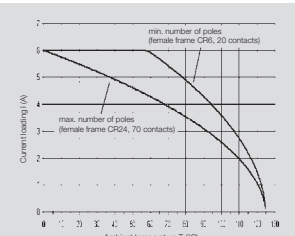
Rated current (DIN EN 61984)	10 A
Rated voltage (DIN EN 61984)	250 V
Rated impulse voltage (DIN EN 61984)	4 kV
Pollution severity	3
Insulation resistance	10 ¹¹ Ω
Surge voltage category	III
Volume resistance	≤ 4mΩ
Flammability class UL 94	V-0

Contacts

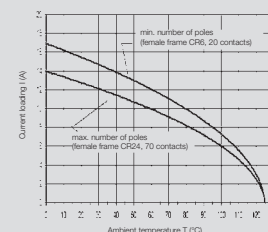
Contact diameter, male Ø	1.6 mm
Connection cross-section	0.14-2.5 mm ²
AWG conductor	AWG 26-AWG 14
Material	Polycarbonate, glass fibre reinforced

Note

Rated voltage 320 V / 4 kV at pollution degree 2. For conductor cross-sections ≤ 0.75 mm², you must use wire-end ferrules at the connection to the PE conductor. When used properly and as designated, the listed connectors may not be connected or disconnected if there is a live voltage or load!



ConCept module CM-10
Conductor H05V-K 0.5 mm²



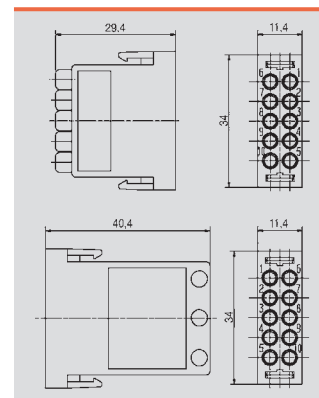
ConCept module CM-10
Conductor H07V-K 2.5 mm²

Modules

Crimp connection



Type	Type	Order No.
Male	HDC CM 10 MC	175840000
Female	HDC CM 10 FC	175841000



Accessories

Crimp contacts

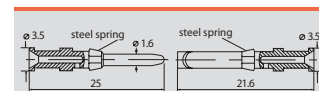
Surface finish gold



Surface finish silver



Male			Female		
Qty.	Type	Order No.	Type	Order No.	Order No.
100	HDC-C-HD-SM0.14-0.37AG	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-SM0.75-1.00AG	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
Contact Removal Tool	
REMOVAL TOOL HD	1866730000

CM-3 HV

Technical data

Contact inserts

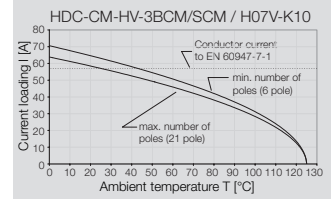
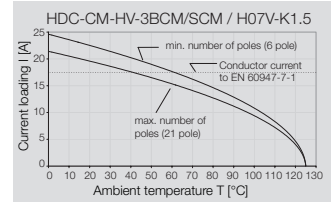
Rated current (DIN EN 61984)	57 A
Rated voltage (DIN EN 61984)	1000 V
Rated impulse voltage (DIN EN 61984)	8 kV
Pollution severity	3
Insulation resistance	10 ¹² Ω
Surge voltage category	III
Volume resistance	≤ 1 mΩ
Flammability class UL 94	V-0

Contacts

Contact diameter, male Ø	3.6 mm
Connection cross-section	1.5-10 mm ²
AWG conductor	AWG 16-AWG 7
Material	Polycarbonate, glass fibre reinforced

Note

For conductor cross-sections of 6 mm² to 10 mm², you must use ring cable lugs at the connection to the PE conductor.
When used properly and as designated, the listed connectors may not be connected or disconnected if there is a live voltage or load!



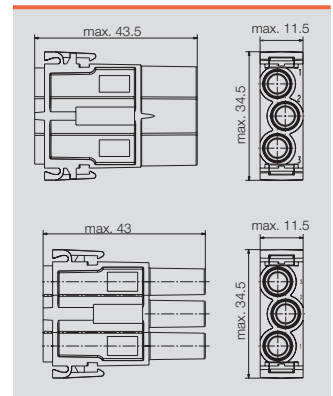
D

Modules

Crimp connection



Type	Type	Order No.
Male	HDC CM HV 3 MC	1862080000
Female	HDC CM HV 3 FC	1862060000



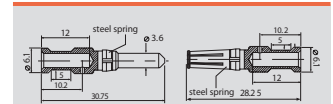
Accessories

Crimp contacts

Surface finish silver



Male			Female		
Qty.	Type	Order No.	Type	Order No.	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	



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

Tools



Crimping tool	
CTX CM 3.6	9018480000
Contact Removal Tool	
Removal Tool CM 3	1866710000

ConCept modules

CM High current module

Technical data

Contact inserts

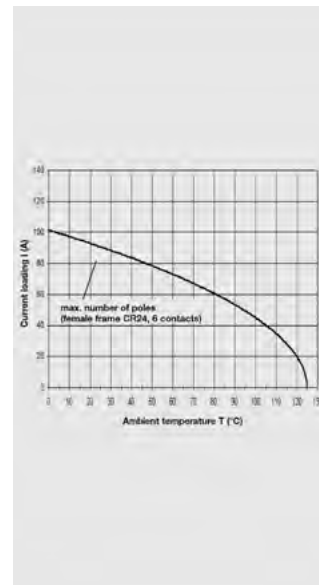
Rated current (DIN EN 61984)	82 A
Rated voltage (DIN EN 61984)	1000 V
Rated impulse voltage (DIN EN 61984)	6 kV
Pollution severity	3
Insulation resistance	10 ¹² Ω
Surge voltage category	III
Volume resistance	≤ 1 mΩ
Flammability class UL 94	V-0

Contacts

Contact diameter, male Ø	6 mm
Tightening torque	1.2
Connection cross-section	10-25 mm ²
AWG conductor	AWG 8-AWG 4
Material	Polyamide, glass fibre-reinforced

Note

The modules have a double-module design and occupy two places in the ConCept module frame. Only use the modules with wire-end ferrules! When used properly and as designated, the listed connectors may not be connected or disconnected if there is a live voltage or load!

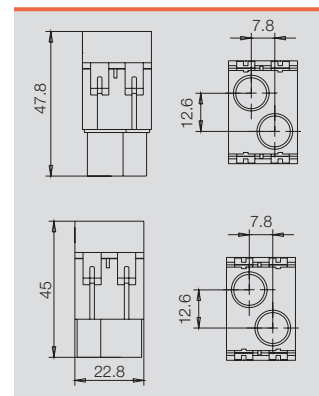


Modules

Screw connection



Type	Type	Order No.
Male	HDC CM 1 MS + PE	1828390000
Female	HDC CM 1 FS + PE	1828410000

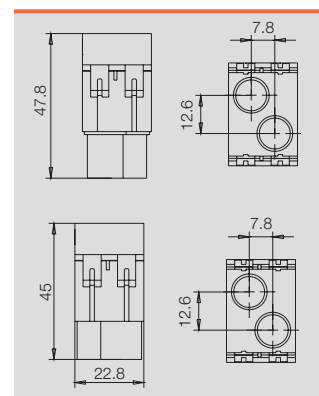


Modules

Screw connection



Type	Type	Order No.
Male	HDC CM 2 MS	1828380000
Female	HDC CM 2 FS	1828400000



Note

ConCept bus module for screened wires

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

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

D

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

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

On one side, Weidmüller uses the robust USB plug as connection system for the Profibus DP modules. This guarantees a high transmission rate of 12 Mbit/s and at least 200 plugging cycles. On the other side, screw terminals are used to connect the screened Profibus cables.

Advantages

- Simple screw connection
- Simple screen connection



Versions

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



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



Technical data

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

System characteristics		
Connection technology	Screw connection	
No. of poles	4 + screen	2 + screen
Conductor capacity	0.08 ... 1.5 mm	As
	AWG 28 ... 16	Profibus DP
Stripping length	5 mm	
Clamping capacity (outer diameter of cable screen)	2.1 ... 7 mm	
Stripped sheath length	19 mm	

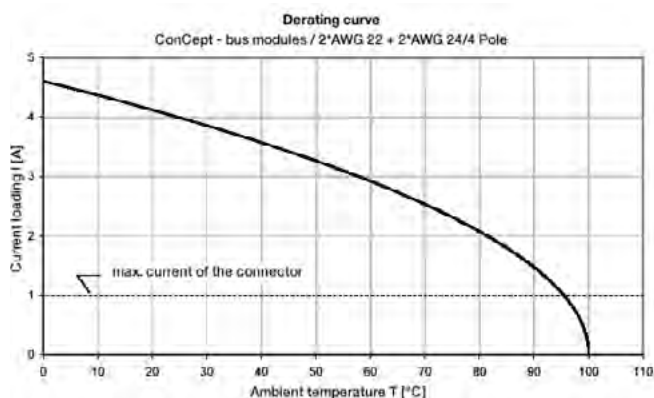
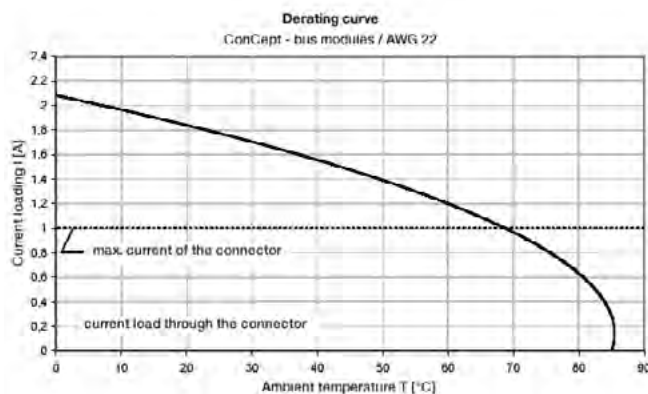
Rated data to VDE 0627	
Rated current	1 A
Rated voltage	32 V
Rated impulse withstand voltage	0.8 kV
Degree of pollution	3
Transmission rate	max. 12 Mbit/s

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

- Assembly instructions**
- Use wire end ferrules
 - Clamp screen braid under clip
 - Use specified torque settings
 - Place module at the far end of the frame with the connection side to the outside
 - Only use high housing types

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

Derating curves



D

ConCept bus modules

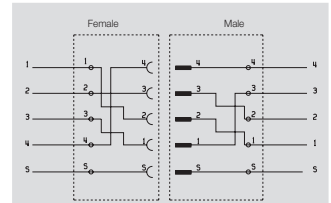
Bus connectors

4 poles

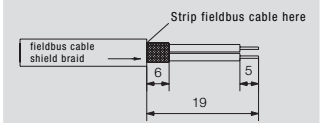
Technical data

Contact inserts

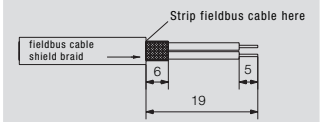
Rated current	1 A
Rated voltage	30 V
Qty.	5



Male module



Female module



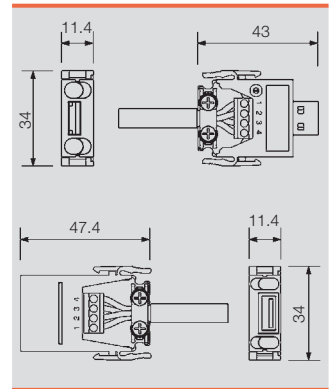
Note

Modules

Female module



Insert	Designation	Order No.
Male	HDC CM BUS 4SS	1814310000
Female	HDC CM BUS 4BS	1814300000



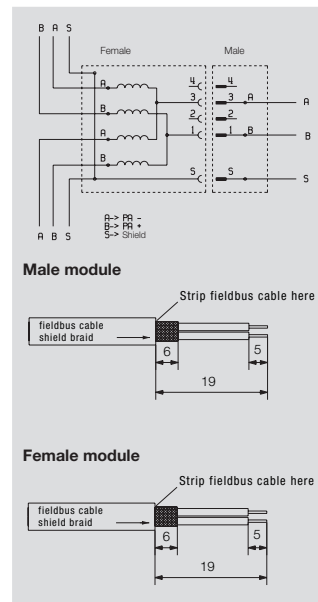
Bus connector with integrated T-exit

2 poles

Technical data

Contact inserts

Rated current	1 A
Rated voltage	30 V
Qty.	5



Note

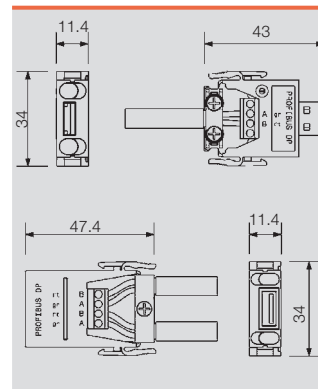
The Profibus topology is the line structure. The branches (T-pieces) connect the individual field devices or remote I/Os to the bus cable. The length of the spur depends on the transmission rate and should be as short as possible. IEC 61158 specifies that with a transmission rate of 1.5 Mbit/s per segment, spur lengths of up to 6.6 m are permitted. Source: Profibus Directive, Order No. 2.111 Version 1.0

Modules

Female module



Insert	Designation	Order No.
Male	HDC CM BUS 2SS PDP A	1806060000
Female	HDC CM BUS 2BS T PDP C	1806030000



ConCept bus modules

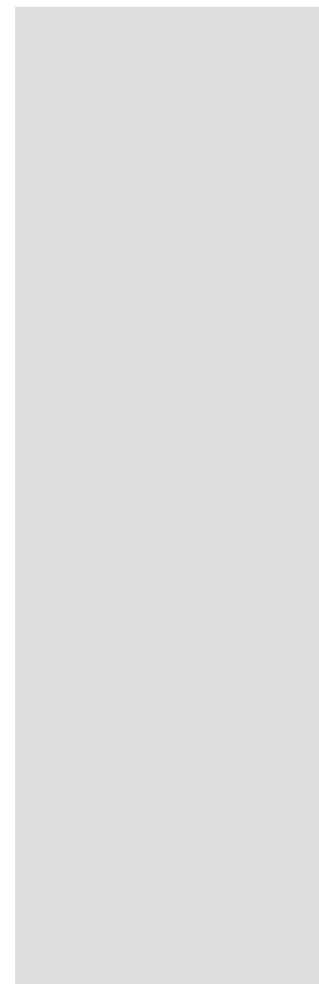
ConCept system bus

Shielded module

Technical data

Contact inserts

Standards	DIN EN 61984 IEC 60664
Approvals	UL/CSA
No. contacts	2...16 poles for signal transmission
Conductor connection system	Crimp
Rated current	10 A (HD) / 25 A (HE)
Rated voltage/Rated impulse withstand voltage	50 V/0.8 kV (HD) / 160V/3kV (HE)
Degree of pollution	3 (100 V/1.5 kV/2 (HD) / 250 V/3 kV/2 (HE))
Shield	Shield connected to contact carrier using cable clamp
Outside diameter of shielded cable	3 to 6 mm and/or 6 to 9.5 mm
Conductor clamping ranges	0.14 mm ² ... 4.62 mm ² AWG 26 ... AWG 11
Stripping lengths	8 mm (HD/HE) / 4 mm (SUB-D)
Volume resistance	< 4 mΩ (HD) / < 2 mΩ (HE)
Contacts (crimp)	HD / HE / SUB-D
Contact material	Copper alloy
Surface	
Crimp contact	Passivated silver or gold-plated
Contact carrier	Zinc alloy
Temperature range	-40 °C ... +70 °C
Material – module	Glass-fibre reinforced PC (in UL list and approved for railway applications)
Flammability to UL 94	V-0
Frame material	Die cast zinc
Surface of frame	CuNi
Frame earthing (ground)	Leading earthing contact; double-sided PE connection



Note

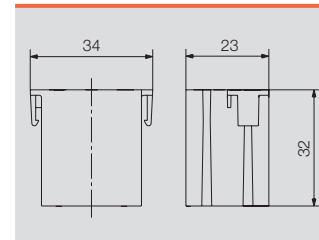
The modules have a double-module design and occupy two places in the ConCept module frame.
When used properly and as designated, the listed connectors may not be connected or disconnected if there is a live voltage or load!

Modules

Female receptacle module



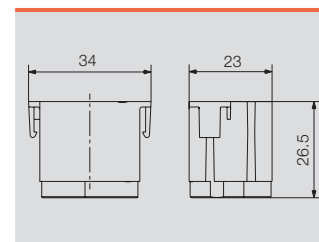
Designation	Type	Order No.
HDC CM BUS SV F2	Female module	1983720000



Male receptacle module



Designation	Type	Order No.
HDC CM BUS SV M2	Male module	1983750000

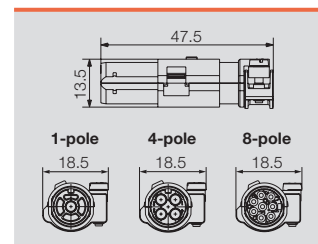


Female contact carrier



Designation	Type	Type of contact	Order No.
HDC CM BUS SV F1 CT	1-pole	Females contact carrier HD	1983800000
HDC CM BUS SV F4 CT	4-pole	Females contact carrier HD	1983770000
HDC CM BUS SV F8 CT	8-pole	Females contact carrier SUB-D	1043120000
HDC CM BUS HE F1 CT	1-pole	Females contact carrier HE	1116090000

Note: Additional crimp contacts on D.18

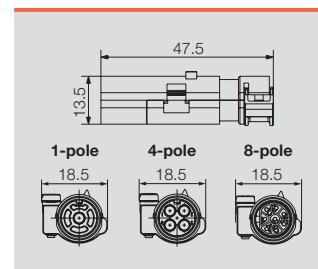


Male contact carrier



Designation	Type	Type of contact	Order No.
HDC CM BUS SV M1 CT	1-pole	Male contact carrier HD	1983810000
HDC CM BUS SV M4 CT	4-pole	Male contact carrier HD	1983790000
HDC CM BUS SV M8 CT	8-pole	Male contact carrier SUB-D	1043130000
HDC CM BUS HE M1 CT	1-pole	Male contact carrier HE	1116100000

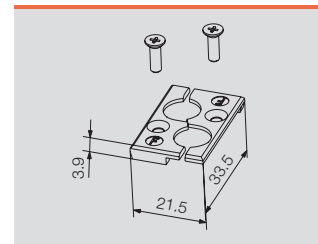
Note: Additional crimp contacts on D.18



Earthing connection adapter plate



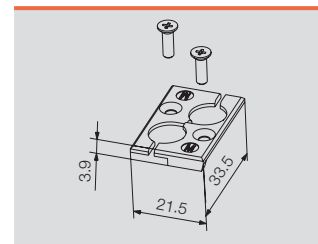
Designation	Type	Order No.
HDC CM BUS SV GCA F	Earthing connection adapter plate	1983820000



Earthing connection adapter plate



Designation	Type	Order No.
HDC CM BUS SV GCA M	Earthing connection adapter plate	1014080000



Accessories

HD crimp contacts

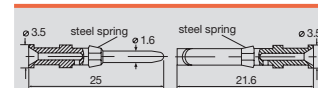
Surface Gold



Surface Silver



Qty.	Male	Order No.	Female	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-SM0.75-1AU	1651640000	HDC-C-HD-BM0.75-1AU	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-BM0.75-1AG	1601760000
100	HDC-C-HD-SM0.75-1AG	1601750000	HDC-C-HD-BM0.5AG	1651580000
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



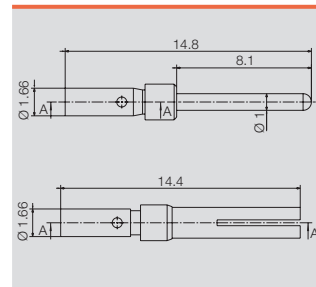
Crimping tool	Order No.
CTX CM 1.6/2.5	9018490000
Contact release tool	Order No.
Removal Tool HD	1866730000

Accessories

SUB-D crimp contacts



Qty.	Male	Order No.	Female	Order No.
100	HDC-C-CM-BUS-S0.33-0.52	1027260000	HDC-C-CM-BUS-B0.33-0.52	1027270000



D

HE crimp contacts

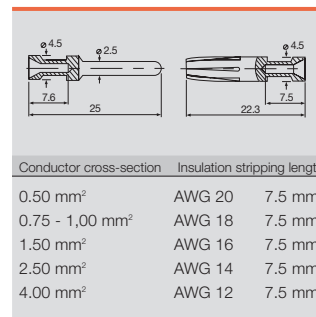
Surface Gold



Surface Silver



Qty.	Male	Order No.	Female	Order No.
100	HDC-C-HE-SM0.5AU	1651420000	HDC-C-HE-BM0.5AU	1651470000
100	HDC-C-HE-SM0.75-1AU	1651430000	HDC-C-HE-BM0.75-1AU	1651480000
100	HDC-C-HE-SM1.5AU	1651440000	HDC-C-HE-BM1.5AU	1651490000
100	HDC-C-HE-SM2.5AU	1651450000	HDC-C-HE-BM2.5AU	1651500000
100	HDC-C-HE-SM4.0AU	1651460000	HDC-C-HE-BM4.0AU	1651510000
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-SM0.75-1AG	1200600000	HDC-C-HE-BM0.75-1AG	1201200000
100	HDC-C-HE-SM1.5AG	1200700000	HDC-C-HE-BM1.5AG	1201300000
100	HDC-C-HE-SM2.5AG	1200800000	HDC-C-HE-BM2.5AG	1201400000
100	HDC-C-HE-SM4.0AG	1200900000	HDC-C-HE-BM4.0AG	1201500000



Tools



Tool	Order No.
Crimping tool CTX CM 1.6/2.5	9018490000
Contact release tool Removal Tool HE	1866750000

ConCept ST

The new RockStar® ConCept ST data module with **STEADYTEC®** technology is a new versatile Gigabit Ethernet module for use with the modular connector system ConCept.

- Gigabit Ethernet (Cat.6A 10GBit System Class EA): fast RJ45 data insert suitable for field assembly.
- Your choice for excellent flexibility: the platform concept allows the use of RJ45, SC/LC and hybrid inserts.
- Optimised handling and easy implementation through integrated module release levers.
- Can be combined with all available ConCept modules and module frames.



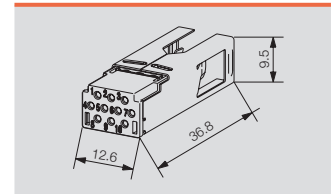
Technical data

Standards	IEC 60664 DIN EN 61984
Approvals	GL, further approvals are pending
Number of poles	8-pole (RJ45) / 2-pole SC (single-mode/multi-mode/POF)/LC (single-mode/multi-mode) / 10-pole hybrid
Rated voltage (RJ45)	50 V
Rated impulse voltage (RJ45)	1 kV
Rated current (RJ45)	1 A
Volume resistance	≤ 20 mΩ
Insulation resistance	≤ 10 ¹⁰ mΩ
Shielding	360° shielded data insert housing / optional shield clamp
Pollution severity	3
Category	Cat.6A 10GBit System Class EA (Ethernet TCP/IP, Profinet, Ethernet IP) according to ISO/IEC 11801
Wire connection method	IDC (RJ45) / crimp (RJ45/SC/LC/hybrid)
Wire clamping range	RJ45 inserts, no tool required (FH): Flexible: 0.48 - 0.76 mm ² (AWG 26/7 ...AWG 22/7) Solid: 0.40 - 0.64 mm ² (AWG 26/1...AWG 22/1) RJ45 crimp inserts (TH): Flexible: 0.46 - 0.61 mm ² (AWG 27/7...AWG 24/7) Solid: 0.36 - 0.51 mm ² (AWG 26/1...AWG 24/1) SC/LC crimp inserts: Inner wire G50 µm/125 µm and G62.5 µm/125 µm Hybrid crimp inserts: 0.2 - 0.5 mm ² (AWG 24...20)
Temperature range	- 40 °C ... + 70 °C
Insertion and pulling forces	≤ 30 N
Plugging cycles	≥ 500
Materials	
Module housing	PC glass-fibre reinforced
Flammability according to UL 94	V-0
Flammability according to NFF 16-101 / NFF 16-102	I1F2
Colour of module housing	grey (RAL 7032)
Data inserts	Die-cast zinc/ brass/PC (RJ45 TH) / PA (SC socket) / PBT (LC socket) / PA/nickel silver (hybrid)
Contacts (RJ45/hybrid)	Copper (RJ45 FH) / Phosphor-bronze (RJ45 TH) / Tin-bronze (hybrid)
Contact surface (RJ45/hybrid)	Gold-plated nickel (RJ45) / partially gold-plated (hybrid)

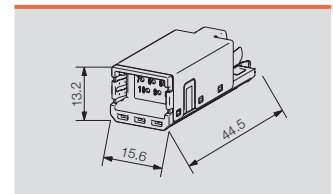
Note: These modules are designed as double modules and take up two slots in the ConCept module frames.
The RJ45 data inserts are suitable for PoE (power over Ethernet) in compliance with IEEE 802.3af.
The main catalogue 9 contains additional information on our industrial Ethernet products.

ConCept ST
ConCept ST
Data inserts hybrid
Male

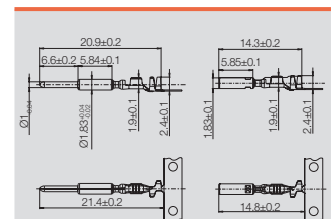

Designation	Type	Order No.
Male	IE-PI-HYB-10P	1068990000


Female

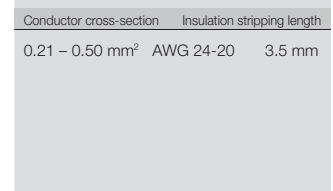

Designation	Type	Order No.
Female	IE-BI-HYB-10P	1069010000


Crimp contacts hybrid
Male


Designation	Type	Order No.
Male	IE-BIC-HYB-P-0.5-300	1096150000


Female


Designation	Type	Order No.
Female	IE-PIC-HYB-S-0.5-300	1096180000


Accessories

Designation	Type	Order No.
Crimping tool RJ45	TT 8 RS MP 8	9202800000
Stripping tool RJ45	IE-CST	9204350000
	AM 12	9030060000
Crimping tools SC/LC	IE-CT-SC-GOF	9205320000
	IE-CT-SC-POF	9205340000
	IE-CT-SC-GOF-P	9205350000
	IE-CT-LC-GOF	9205330000
Stripping tool SC (POF)	M-D-STRIPAX LWL	9003750000
Assembly case SC/LC	IE-CTC-SCST-GOF	1032030000
	IE-CTC-AS-SC-POF	1033360000
	IE-CTC-AS-LC-GOF	1033350000
Crimping tool hybrid	HTF HYB	1119580000
Cutting tool	KT 8	9002650000

CM pneumatic

Technical data

Contact inserts

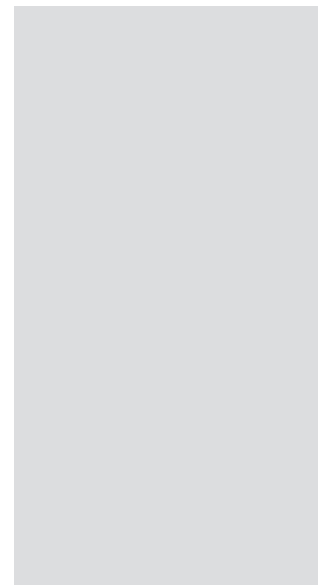
Number of valves	1
Type of connection	Hose connection (pneumatic)
Connection diameter, hose (inner)	2.5 mm
Module operating pressure	10 bar
Contact travel	4 mm
Stop valve	Socket side
Hose type	Only use PTFE hoses
Connection diameter, hose (outer)	8 mm
Connection system	Self-locking
Temperature range, installation	-40...80 °C
Flammability class UL 94	V-0

Contacts

Contact material	Ms 58 brass
Sealing material	NBR
Module body material	PA 6.6
Colour	Black

Note

When delivering liquids or gases of any type through pneumatic modules, it is very important to remember that no current-carrying modules should be mounted or be mounted later in the same housing.



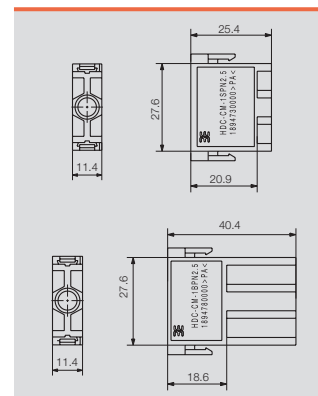
D

Modules

Hose connection (pneumatic)



Type	Type	Order No.
Male	HDC CM 1 MPN 2.5	1894730000
Female	HDC CM 1 FPN 2.5	1894780000
Male	HDC CM 1 MPN 4.0	1894740000
Female	HDC CM 1 FPN 4.0	1894720000



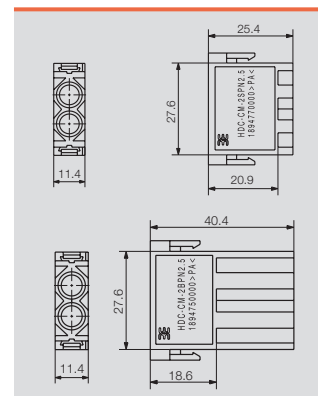
Modules

Hose connection (pneumatic)



Type	Type	Order No.
Male	HDC CM 2 MPN 2.5	1894770000
Female	HDC CM 2 FPN 2.5	1894750000
Male	HDC CM 2 MPN 4.0	1894710000
Female	HDC CM 2 FPN 4.0	1894760000

Note



ConCept module frame

Size 3

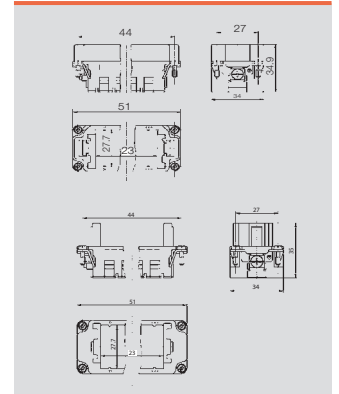
CR6 ConCept frame, plastic

Frame



Type	Type	Order No.
Male	HDC-CR6-2S GR	1758440000
Female	HDC-CR6-2B GR	1758450000

Note For 2 modules



D

**Selection of Housings RockStar® IP66
Size 3**



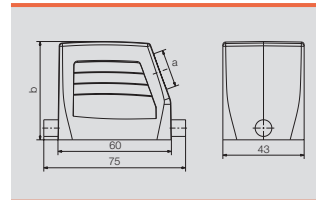
Further housings are available, see Chapter E for IP66 and Chapter F for IP68

Hood

Plug housing, cable entry sideways



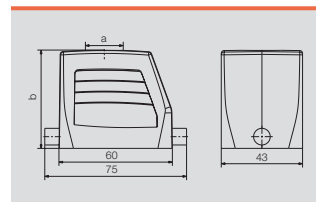
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		52	HDC 06B TSLU 1M20G	1788100000
M 25	w. threading		52	HDC 06B TSLU 1M25G	1788090000
M 25	w. threading		72	HDC 16D TSLU 1M25G	1787480000



Plug housing, cable entry at top



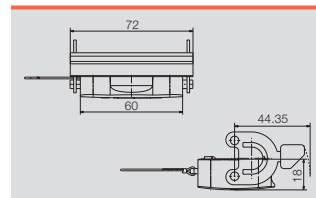
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		52	HDC 06B TOLU 1M20G	1788120000
M 25	w. threading		52	HDC 06B TOLU 1M25G	1788110000
M 25	w. threading		72	HDC 16D TOLU 1M25G	1787500000
M 32	w. threading		72	HDC 16D TOLU 1M32G	1787490000



Cover



Version	Type	Order No.
For hoods	HDC 06B DMDL 1LB	1665210000

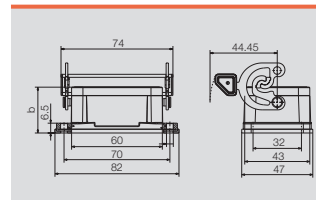


Base

Bulkhead housing



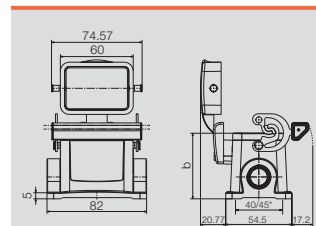
Version	Cover	b (mm)	Type	Order No.
		29	HDC 06B ALU	1202100000
	with cover	47	HDC 06B ADLU	1202500000



Base housing



a	Version	Cover	b (mm)	Type	Order No.
M 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

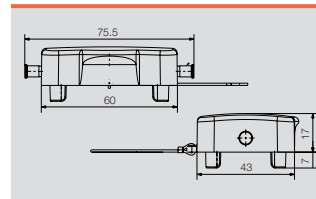


* Mounting dimensions for size-3 base housings, tall shape (16D)

Cover



Version	Type	Order No.
For bases	HDC 06B DODL 2BO	1665200000



ConCept module frame

Size 3

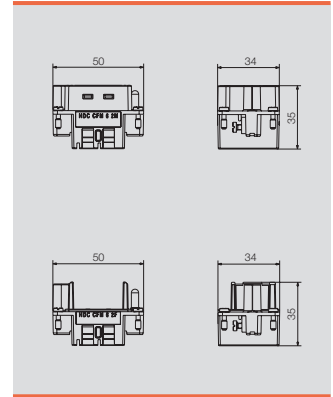
CR6 ConCept frame, metal

Frame



Type	Type	Order No.
Male	HDC CFM 6 2M	1983830000
Female	HDC CFM 6 2F	1983840000

Note For 2 modules



**Selection of Housings RockStar® IP66
Size 3**



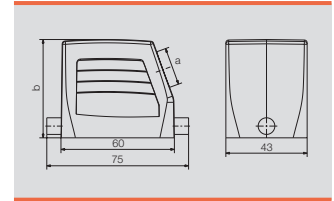
Further housings are available, see Chapter E for IP66 and Chapter F for IP68

Hood

Plug housing, cable entry sideways



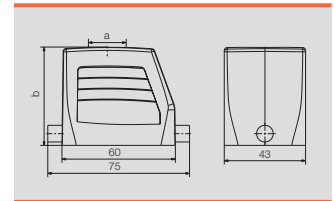
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		52	HDC 06B TSLU 1M20G	1788100000
M 25	w. threading		52	HDC 06B TSLU 1M25G	1788090000
M 25	w. threading		72	HDC 16D TSLU 1M25G	1787480000



Plug housing, cable entry at top



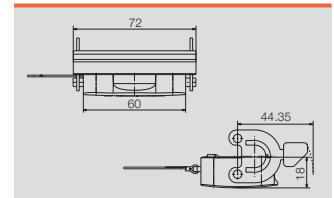
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		52	HDC 06B TOLU 1M20G	1788120000
M 25	w. threading		52	HDC 06B TOLU 1M25G	1788110000
M 25	w. threading		72	HDC 16D TOLU 1M25G	1787500000
M 32	w. threading		72	HDC 16D TOLU 1M32G	1787490000



Cover



Version	Type	Order No.
For hoods	HDC 06B DMDL 1LB	1665210000

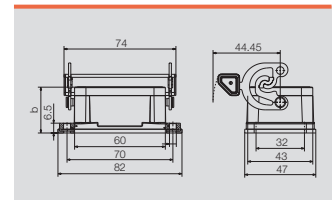


Base

Bulkhead housing



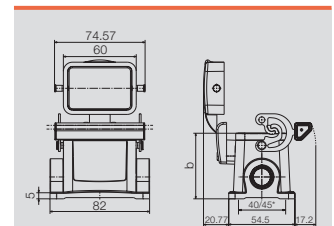
Version	Cover	b (mm)	Type	Order No.
		29	HDC 06B ALU	1202100000
	with cover	47	HDC 06B ADLU	1202500000



Base housing



a	Version	Cover	b (mm)	Type	Order No.
M 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



* Mounting dimensions for size-3 base housings, tall shape (16D)

D

ConCept module frame

Size 4

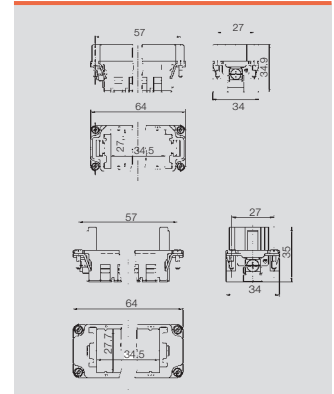
CR10 ConCept frame, plastic

Frame



Type	Type	Order No.
Male	HDC-CR10-3S GR	1758460000
Female	HDC-CR10-3B GR	1758470000

Note For 3 modules



D

Selection of Housings RockStar® IP66
Size 4



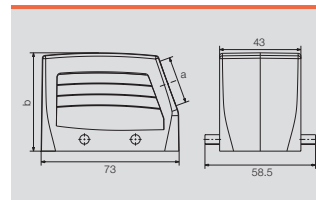
Further housings are available, see Chapter E for IP66 and Chapter F for IP68

Hood

Plug housing, cable entry sideways



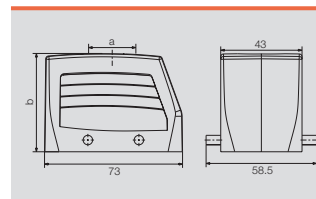
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		52	HDC 10B TSBU 1M20G	1787560000
M 25	w. threading		52	HDC 10B TSBU 1M25G	1787550000
M 25	w. threading		72	HDC 24D TSBU 1M25G	1787240000
M 32	w. threading		72	HDC 24D TSBU 1M32G	1787230000



Plug housing, cable entry at top



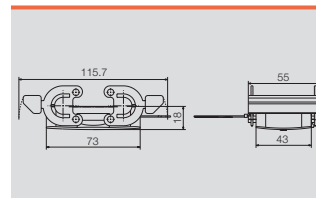
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		52	HDC 10B TOBU 1M20G	1787600000
M 25	w. threading		52	HDC 10B TOBU 1M25G	1787590000
M 25	w. threading		72	HDC 24D TOBU 1M25G	1787300000
M 32	w. threading		72	HDC 24D TOBU 1M32G	1787290000



Cover



Version	Type	Order No.
For hoods	HDC 10B DMDQ 2QB	1665240000

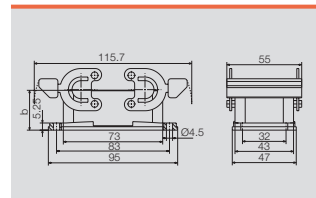


Base

Bulkhead housing



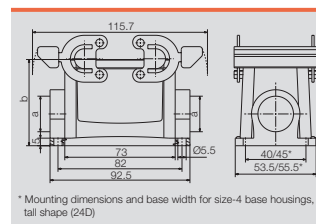
Version	Cover	b (mm)	Type	Order No.
		29.3	HDC 10B ABU	1205000000



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

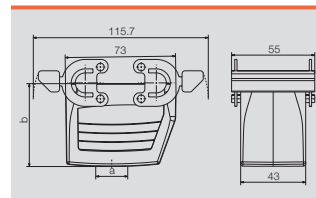


* Mounting dimensions and base width for size-4 base housings, tall shape (24D)

Coupling housing



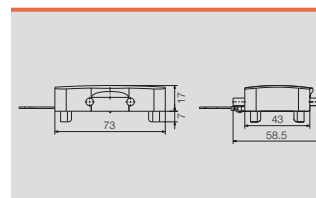
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		55	HDC 10B KBU 1M20G	1787720000



Cover



Version	Type	Order No.
For bases	HDC 10B DODQ 4BO	1665230000

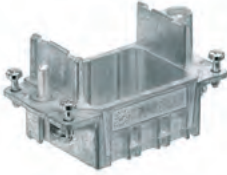


ConCept module frame

Size 4

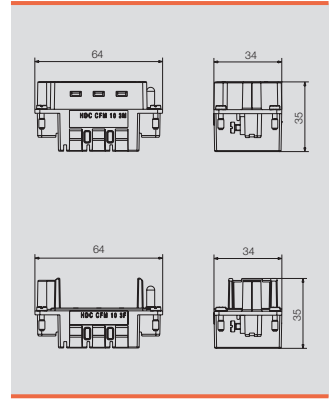
CR10 ConCept frame, metal

Frame



Type	Type	Order No.
Male	HDC CFM 10 3M	1983850000
Female	HDC CFM 10 3F	1983860000

Note For 3 modules



Selection of Housings RockStar® IP66
Size 4



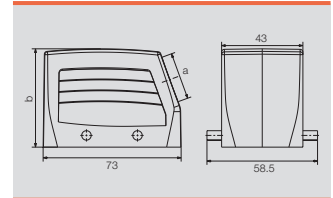
Further housings are available, see Chapter E for IP66 and Chapter F for IP68

Hood

Plug housing, cable entry sideways



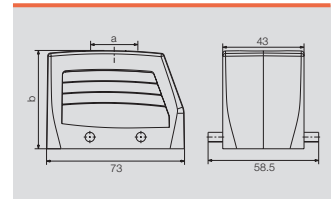
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		52	HDC 10B TSBU 1M20G	1787560000
M 25	w. threading		52	HDC 10B TSBU 1M25G	1787550000
M 25	w. threading		72	HDC 24D TSBU 1M25G	1787240000
M 32	w. threading		72	HDC 24D TSBU 1M32G	1787230000



Plug housing, cable entry at top



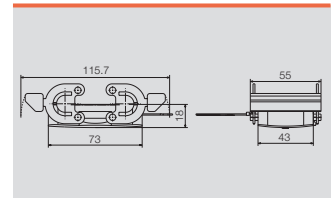
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		52	HDC 10B TOBU 1M20G	1787600000
M 25	w. threading		52	HDC 10B TOBU 1M25G	1787590000
M 25	w. threading		72	HDC 24D TOBU 1M25G	1787300000
M 32	w. threading		72	HDC 24D TOBU 1M32G	1787290000



Cover



Version	Type	Order No.
For hoods	HDC 10B DMDQ 2QB	1665240000

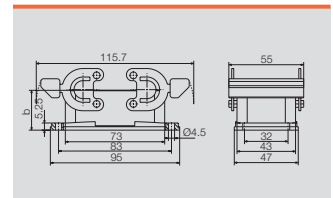


Base

Bulkhead housing



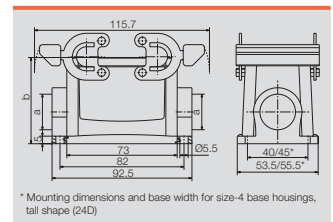
Version	Cover	b (mm)	Type	Order No.
		29.3	HDC 10B ABU	1205000000



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

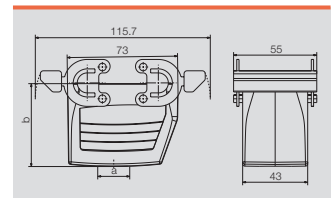


* Mounting dimensions and base width for size-4 base housings, tall shape (24D)

Coupling housing



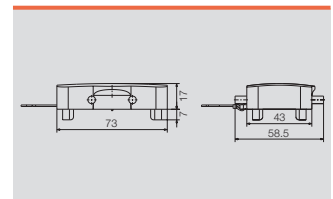
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		55	HDC 10B KBU 1M20G	1787720000



Cover



Version	Type	Order No.
For bases	HDC 10B DODQ 4BO	1665230000



ConCept module frame

Size 6

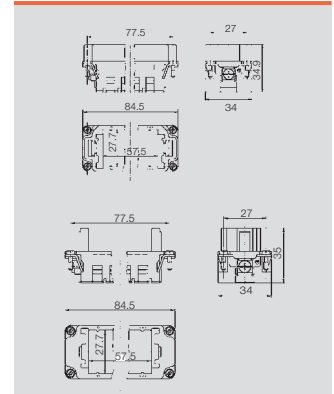
CR16 ConCept frame, plastic

Frame



Type	Type	Order No.
Male	HDC-CR16-5S GR	1758480000
Female	HDC-CR16-5B GR	1758490000

Note For 5 modules



Selection of Housings RockStar® IP66
Size 6



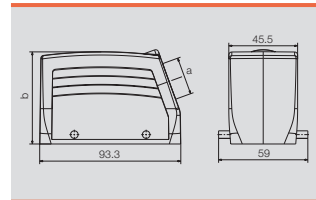
Further housings are available, see
Chapter E for IP66 and Chapter F for IP68

Hood

Plug housing, cable entry sideways



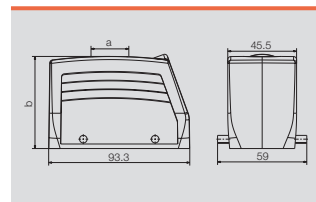
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 16B TSBU 1M25G	1788180000
M 25	w. threading		76	HDC 40D TSBU 1M25G	1787010000
M 32	w. threading		76	HDC 40D TSBU 1M32G	1787000000



Plug housing, cable entry at top



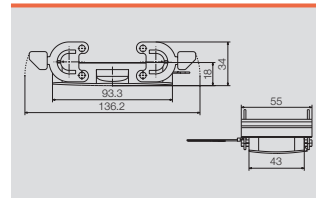
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 16B TOBU 1M25G	1788210000
M 25	w. threading		76	HDC 40D TOBU 1M25G	1787070000
M 32	w. threading		76	HDC 40D TOBU 1M32G	1787060000



Cover



Version	Type	Order No.
For hoods	HDC 16B DMDQ 2QB	1665270000

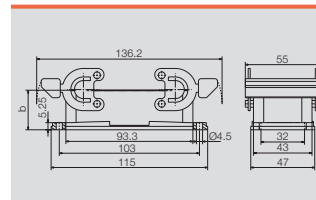


Base

Bulkhead housing



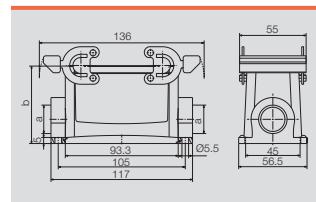
Version	Cover	b (mm)	Type	Order No.
		29	HDC 16B ABU	1208600000



Base housing



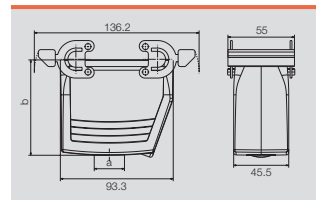
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		64	HDC 16B SBU 2M25G	1788240000
M 25	w. threading		84	HDC 40D SBU 2M25G	1787120000
M 32	w. threading		84	HDC 40D SBU 2M32G	1787110000



Coupling housing



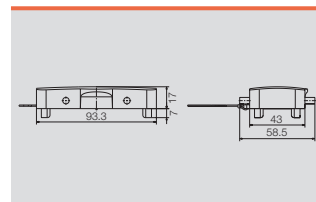
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		79	HDC 40D KBU 1M25G	1787200000
M 32	w. threading		79	HDC 40D KBU 1M32G	1787190000



Cover



Version	Type	Order No.
For bases	HDC 16B DODQ 4B0	1665260000

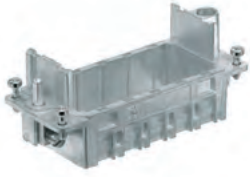


ConCept module frame

Size 6

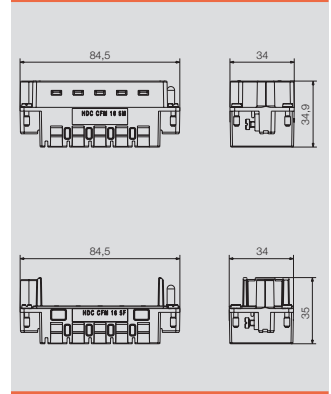
CR16 ConCept frame, metal

Frame



Type	Type	Order No.
Male	HDC CFM 16 5M	1983870000
Female	HDC CFM 16 5F	1983880000

Note For 5 modules



D

Selection of Housings RockStar® IP66
Size 6



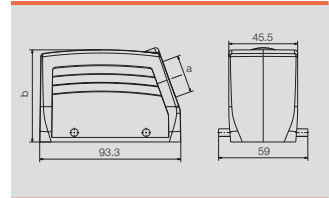
Further housings are available, see
Chapter E for IP66 and Chapter F for IP68

Hood

Plug housing, cable entry sideways



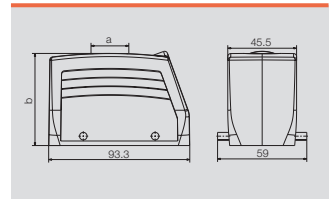
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 16B TSBU 1M25G	1788180000
M 25	w. threading		76	HDC 40D TSBU 1M25G	1787010000
M 32	w. threading		76	HDC 40D TSBU 1M32G	1787000000



Plug housing, cable entry at top



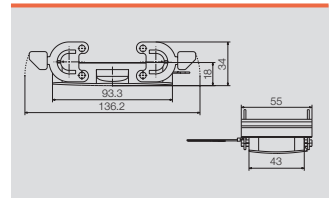
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 16B TOBU 1M25G	1788210000
M 25	w. threading		76	HDC 40D TOBU 1M25G	1787070000
M 32	w. threading		76	HDC 40D TOBU 1M32G	1787060000



Cover



Version	Type	Order No.
For hoods	HDC 16B DMDQ 2QB	1665270000

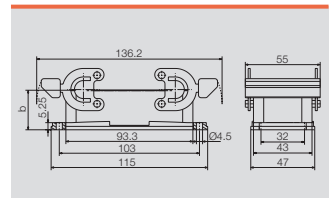


Base

Bulkhead housing



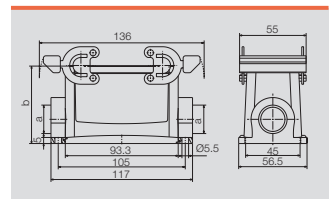
Version	Cover	b (mm)	Type	Order No.
		29	HDC 16B ABU	1208600000



Base housing



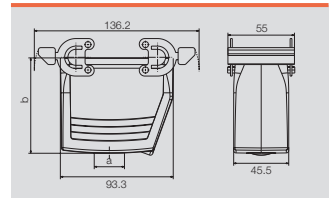
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		64	HDC 16B SBU 2M25G	1788240000
M 25	w. threading		84	HDC 40D SBU 2M25G	1787120000
M 32	w. threading		84	HDC 40D SBU 2M32G	1787110000



Coupling housing



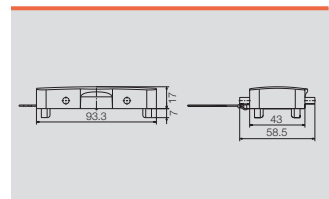
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		79	HDC 40D KBU 1M25G	1787200000
M 32	w. threading		79	HDC 40D KBU 1M32G	1787190000



Cover



Version	Type	Order No.
For bases	HDC 16B DODQ 4B0	1665260000



ConCept module frame

Size 8

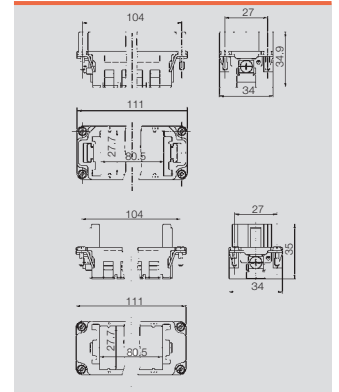
CR24 ConCept frame, plastic

Frame



Type	Type	Order No.
Male	HDC-CR24-7S GR	1758500000
Female	HDC-CR24-7B GR	1758510000

Note For 7 modules



Selection of Housings RockStar® IP66
Size 8



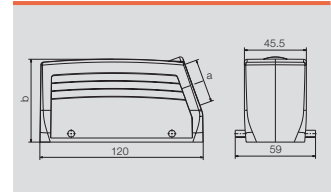
Further housings are available, see
Chapter E for IP66 and Chapter F for IP68

Hood

Plug housing, cable entry sideways



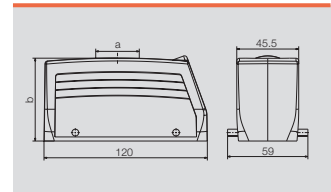
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 24B TSBU 1M25G	1787760000
M 25	w. threading		76	HDC 64D TSBU 1M25G	1786780000
M 32	w. threading		61	HDC 24B TSBU 1M32G	1787750000
M 32	w. threading		76	HDC 64D TSBU 1M32G	1786770000



Plug housing, cable entry at top



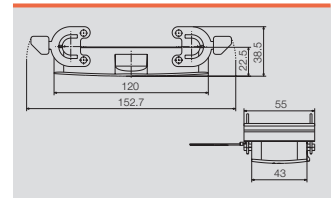
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 24B TOBU 1M25G	1787820000
M 32	w. threading		61	HDC 24B TOBU 1M32G	1787810000
M 32	w. threading		76	HDC 64D TOBU 1M32G	1786830000



Cover



Version	Type	Order No.
For hoods	HDC 24B DMDQ 2QB	1665640000

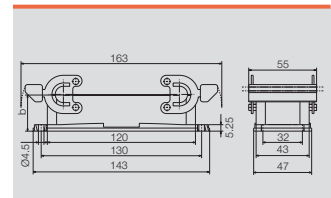


Base

Bulkhead housing



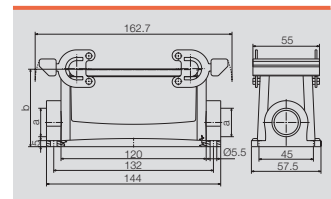
Version	Cover	b (mm)	Type	Order No.
		29,3	HDC 24B ABU	1212400000



Base housing



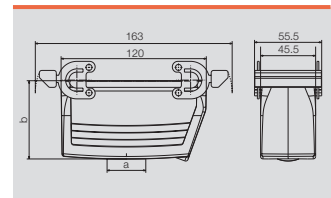
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		64	HDC 24B SBU 2M25G	1787870000
M 25	w. threading		84	HDC 64D SBU 2M25G	1786890000
M 32	w. threading		84	HDC 64D SBU 2M32G	1786880000



Coupling housing



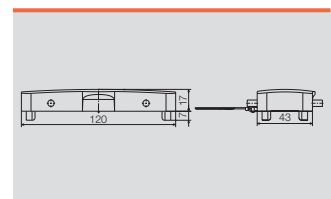
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		65	HDC 24B KBU 1M25G	1787920000
M 32	w. threading		79	HDC 64D KBU 1M32G	1786960000



Cover



Version	Type	Order No.
For bases	HDC 24B DODQ 4B0	1665630000



ConCept module frame

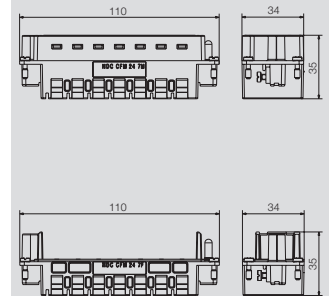
Size 8

CR24 ConCept frame, metal

Frame



Type	Type	Order No.
Male	HDC CFM 24 7M	1983890000
Female	HDC CFM 24 7F	1983900000



Note For 7 modules

Selection of Housings RockStar® IP66
Size 8



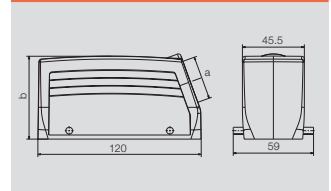
Further housings are available, see
Chapter E for IP66 and Chapter F for IP68

Hood

Plug housing, cable entry sideways



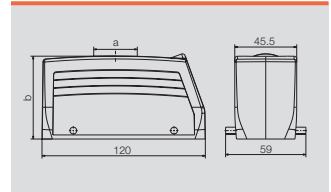
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 24B TSBU 1M25G	1787760000
M 25	w. threading		76	HDC 64D TSBU 1M25G	1786780000
M 32	w. threading		61	HDC 24B TSBU 1M32G	1787750000
M 32	w. threading		76	HDC 64D TSBU 1M32G	1786770000



Plug housing, cable entry at top



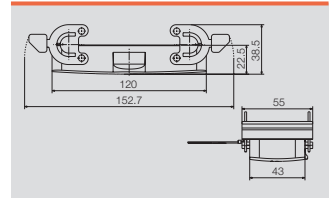
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 24B TOBU 1M25G	1787820000
M 32	w. threading		61	HDC 24B TOBU 1M32G	1787810000
M 32	w. threading		76	HDC 64D TOBU 1M32G	1786830000



Cover



Version	Type	Order No.
For hoods	HDC 24B DMDQ 2QB	1665640000

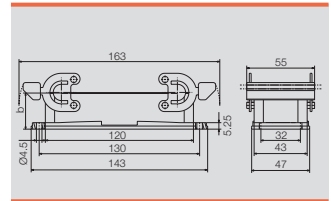


Base

Bulkhead housing



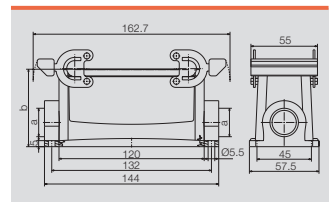
Version	Cover	b (mm)	Type	Order No.
		29,3	HDC 24B ABU	1212400000



Base housing



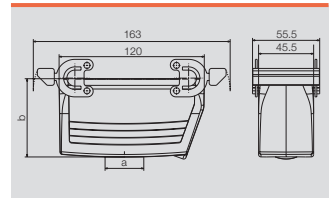
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		64	HDC 24B SBU 2M25G	1787870000
M 25	w. threading		84	HDC 64D SBU 2M25G	1786890000
M 32	w. threading		84	HDC 64D SBU 2M32G	1786880000



Coupling housing



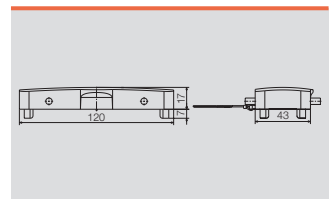
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		65	HDC 24B KBU 1M25G	1787920000
M 32	w. threading		79	HDC 64D KBU 1M32G	1786960000



Cover



Version	Type	Order No.
For bases	HDC 24B DODQ 4B0	1665630000

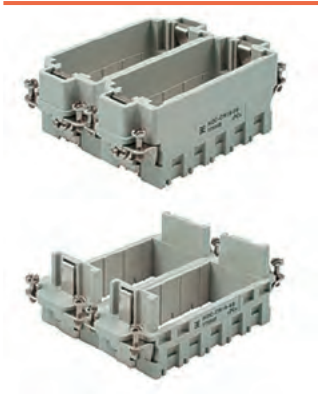


ConCept module frame

Size 10

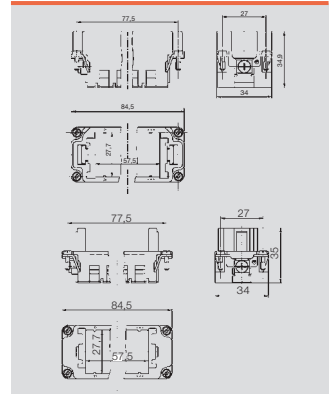
CR16 ConCept frame, plastic 2x

Frame



Type	Type	Order No.
Male	HDC-CR16-5S GR	1758480000
Male	HDC-CR16-5S-2 GR	1758520000
Female	HDC-CR16-5B GR	1758490000
Female	HDC-CR16-5B-2 GR	1758530000

Note For 2 x 5 modules



Selection of Housings RockStar® IP66
Size 10



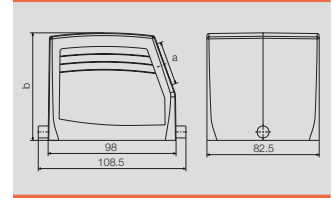
Further housings are available, see Chapter E for IP66

Hood

Plug housing, cable entry sideways



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

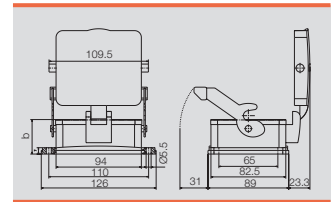


Base

Bulkhead housing



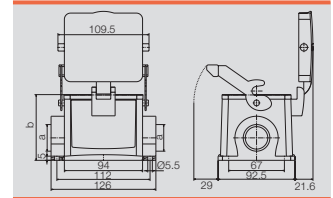
Version	Cover	b (mm)	Type	Order No.
		38	HDC 32B ALU	1219500000
	with cover	55	HDC 32B ADLU	1219800000



Base housing



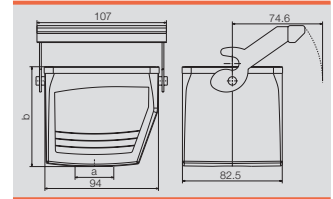
a	Version	Cover	b (mm)	Type	Order No.
M 32	w. threading		79	HDC 32B SLU 2M32G	1788470000
M 32	w. threading	with cover	96	HDC 32B SDLU 2M32G	1788490000



Coupling housing



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



ConCept module frame

Size 12

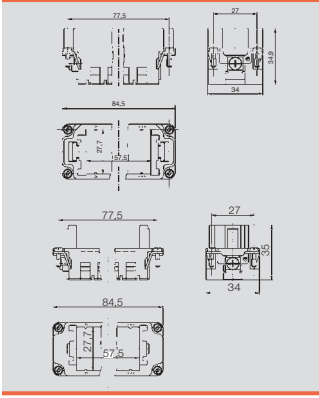
CR24 ConCept frame, plastic 2x

Frame



Type	Type	Order No.
Male	HDC-CR24-7S GR	1758500000
Male	HDC-CR24-7S-2 GR	1758540000
Female	HDC-CR24-7B GR	1758510000
Female	HDC-CR24-7B-2 GR	1758550000

Note For 2 x 7 modules



Selection of Housings RockStar® IP66
Size 12



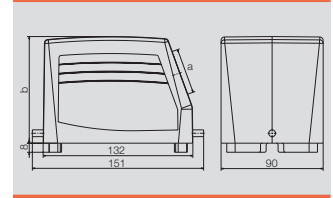
Further housings are available, see Chapter E for IP66

Hood

Plug housing, cable entry sideways



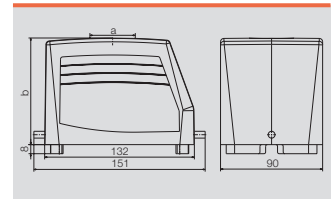
a	Version	Cover	b (mm)	Type	Order No.
M 32	w. threading		94	HDC 48B TSLU 1M32G	1788320000
M 40	w. threading		94	HDC 48B TSLU 1M40G	1788310000
M 50	w. threading		94	HDC 48B TSLU 1M50G	1788300000



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

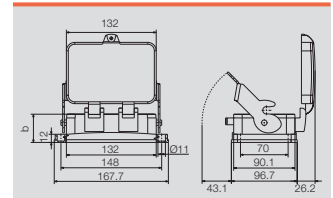


Base

Bulkhead housing



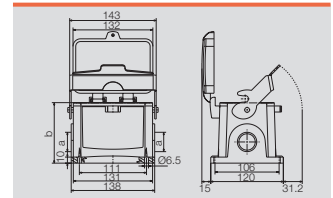
Version	Cover	b (mm)	Type	Order No.
	with cover	62	HDC 48B ADLU	1222900000



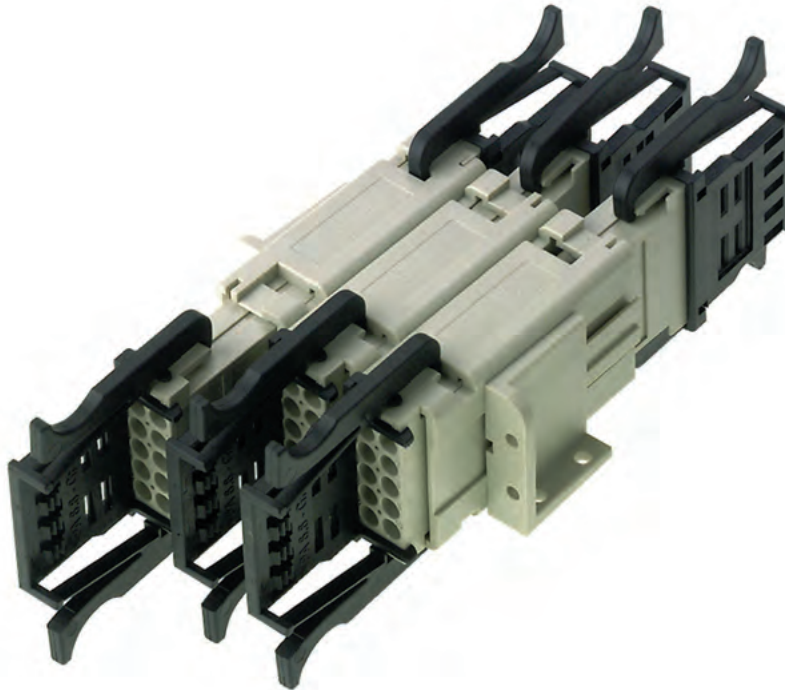
Base housing



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



ModuFlex C



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

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

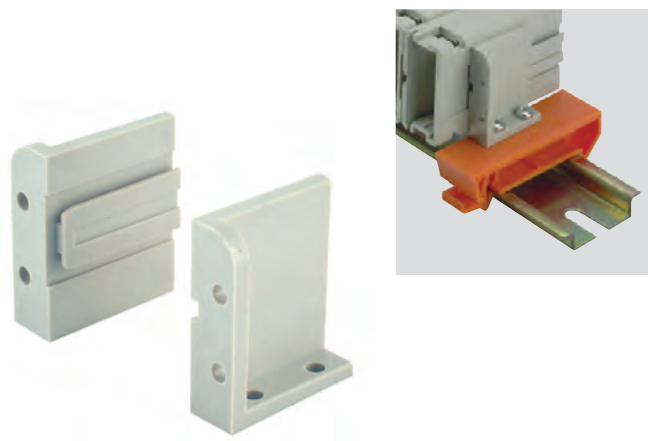
Each individual module can be individually plugged in and released. Thanks to the optional extractor / strain relief tool and the snap-on mounting bracket, ModuFlex C-coupling frames and the male and female modules of the ConCept system allow a wide range of combinations for all possible connector configurations.

Coupling frame



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

Mounting bracket / mounting foot



Mounting bracket

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

Mounting foot

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

Technical data

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

C-CR

Technical data

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

C-MW

MOFU

Ordering data

Type	Qty.	Order No.
ModuFlex C-CR grey	10	1746060000

Ordering data

Type		Qty.	Order No.
ModuFlex C-MW	Mounting bracket	10	1746070000
MOFU	Mounting foot	20	0495660000

Accessories

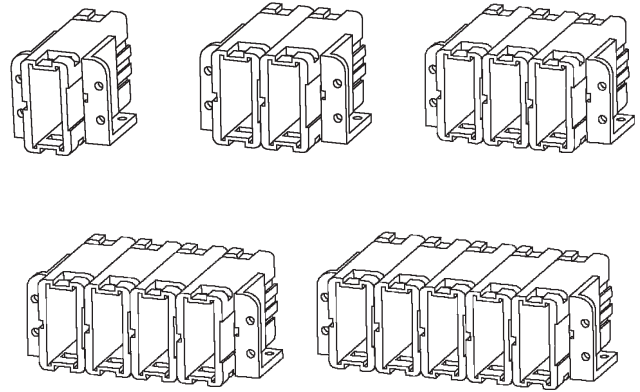
Type	Qty.	Order No.
Crosshead screw for fastening the coupling to the mounting foot, to front and back panel and to a flat surface PTSC KB 30 x 6	100	1766120000
Spacer pin M3 x 27 and clamping screws M3 x 8 in set. For mounting the coupling to flat panels. 1 pack contains 80 screws and 40 spacer pins, separately packaged. ABST.BOLZM3X27+KLSC-KIT	1	1766130000



Module extractor and strain relief tool



Coupling frame – sets



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

Technical data

C-MH/ZE

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

Ordering data

Type	Qty.	Order No.
ModuFlex C-MH/ZE black	10	1752970000

Technical data

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

Ordering data

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

Accessories

Type	Qty.	Order No.
Crosshead screw for fastening the coupling to the mounting foot, to front and back panel and to a flat surface PTSC KB 30 x 6	100	1766120000
Spacer pin M3 x 27 and clamping screws M3 x 8 in set. For mounting the coupling to flat panels. 1 pack contains 80 screws and 40 spacer pins, separately packaged. ABST.BOLZM3X27+KLSC-KIT	1	1766130000

RockStar® Housings IP66 / NEMA Type 4X

RockStar® Housings IP66 / NEMA Type 4X	Introduction	E.2
	RockStar® Housings IP66 / NEMA Type 4X	E.4
	Size 1 - 12	

RockStar® Housings IP66 / NEMA Type 4X

Where something extra comes as standard. The high quality workmanship of RockStar® IP66 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® IP66 housings are available in 12 sizes and can be combined with all fixed-pole and modular inserts.



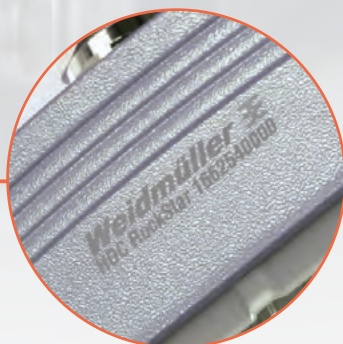
Sturdy

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 IP66 / NEMA Type 4X

Plastic housing

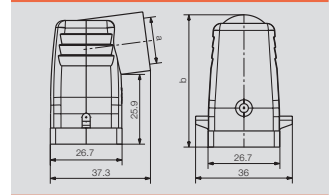
Size 1

Hood

Plug housing, cable entry sideways



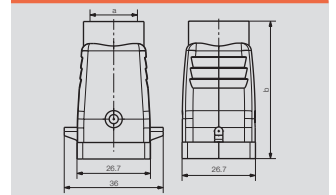
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		49.2	HDC 07A TWLU 1M20G	1788510000
PG 11	w. threading		49.2	HDC 07A TWLU 1PG11G	1652400000



Plug housing, cable entry at top



a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		50	HDC 07A TOLU 1M20G	1788520000
PG 11	w. threading		50	HDC 07A TOLU 1PG11G	1652380000



Plastic housing

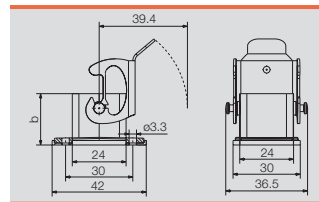
Size 1

Base

Bulkhead housing



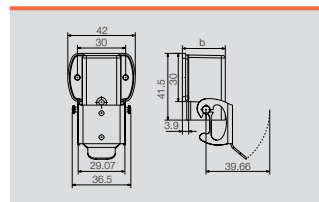
Version	Cover	b (mm)	Type	Order No.
23		23	HDC 07A ALU	1652410000



Bulkhead housing, angled



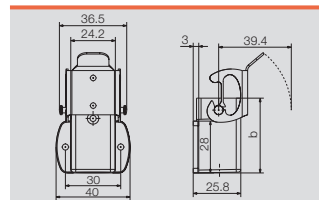
Version	Cover	b (mm)	Type	Order No.
angled		26.7	HDC 07A AWLU	1652420000



Base housing



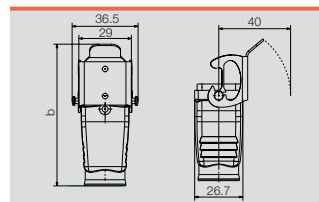
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		41.5	HDC 07A SLU 1M20G	1788530000
PG 11	w. adapter		41.5	HDC 07A SLU 1PG11S	1652440000



Coupling housing



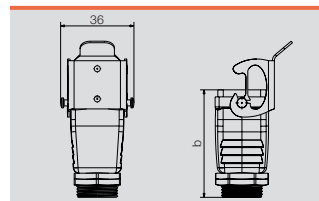
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		53.5	HDC 07A KOLU 1M20G	1788540000
PG 11	w. threading		53.5	HDC 07A KOLU 1PG11G	1652460000



Screw mounting housing



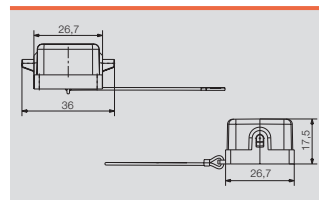
a	Version	Cover	b (mm)	Type	Order No.
PG 13.5	w. threading		54	HDC 07A ELU 1PG13G	1900990000



Cover



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



RockStar® Housings IP66 / NEMA Type 4X

Metal housing

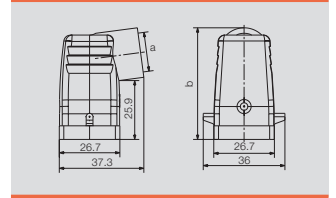
Size 1

Hood

Plug housing, cable entry sideways



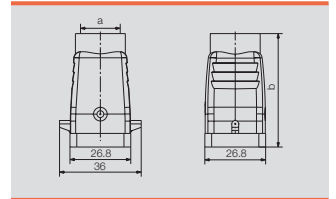
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		49.2	HDC 04A TWLU 1M20G	1788810000
PG 11	w. threading		49.2	HDC 04A TWLU 1PG11G	1652480000
PG 11	w. threading		49.2	HDC 04A TWLU 1PG11S BL	1900310000



Plug housing, cable entry at top



a	Version	Cover	b (mm)	Type	Order No.
M 16	w. threading		50	HDC 04A TOLU 1M16G	1206090000
M 20	w. threading		50	HDC 04A TOLU 1M20G	1788820000
PG 11	w. threading		50	HDC 04A TOLU 1PG11G	1652470000
PG 11	w. threading		50	HDC 04A TOLU 1PG11S BL	1900280000

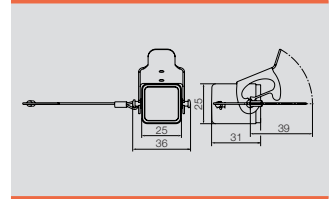


E

Cover



Version	Type	Order No.
for male insert	HDC 04A DODL 1LB	1963690000



Metal housing

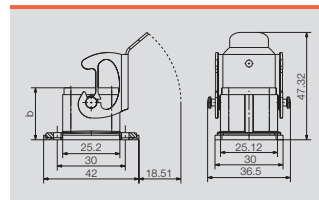
Size 1

Base

Bulkhead housing



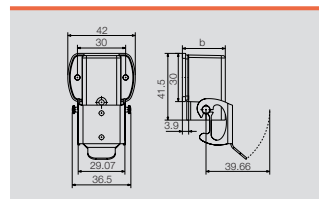
Version	Cover	b (mm)	Type	Order No.
23		42	HDC 04A ALU	149760000



Bulkhead housing, angled



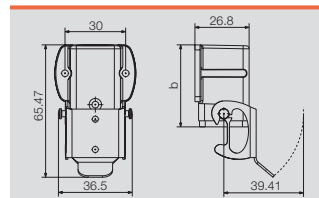
Version	Cover	b (mm)	Type	Order No.
angled		26.7	HDC 04A AWLU	149770000
angled		26.7	HDC 04A AWLU BL	1899890000



Base housing



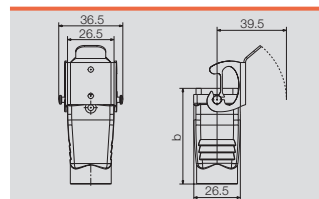
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		41.5	HDC 04A SLU 1M20G	1788830000
PG 11	w. threading		41.5	HDC 04A SLU 1PG11G	1652490000
PG 11	w. threading		41.5	HDC 04A SLU 1PG11G BL	1899800000



Coupling housing



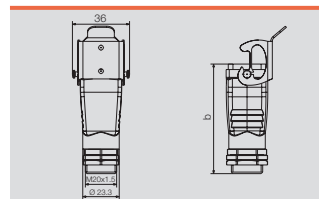
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		53.5	HDC 04A KOLU 1M20G	1788840000
PG 11	w. threading		53.5	HDC 04A KOLU 1PG11G	1652500000
PG 11	w. threading		53.5	HDC 04A KOLU 1PG11S BL	1899920000



Screw mounting housing



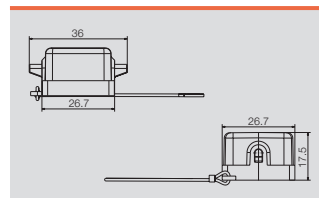
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		54	HDC 04A ELU 1M20G	1900320000
PG 13	w. threading		54	HDC 04A ELU 1PG13S	1900330000
PG 13	w. threading		54	HDC 04A ELU 1PG13S bl	1900350000



Cover



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



RockStar® Housings IP66 / NEMA Type 4X

Plastic housing

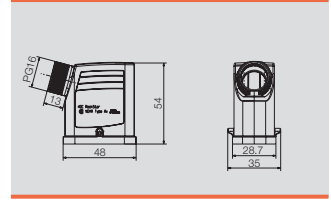
Size HQ

Hood

Plug housing, cable entry sideways



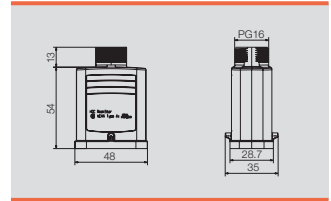
a	Version	Cover	b (mm)	Type	Order No.
PG 16	w. threading		54	HDC HQP TSLU 1PG16	1003090000



Plug housing, cable entry at top



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



Plastic housing

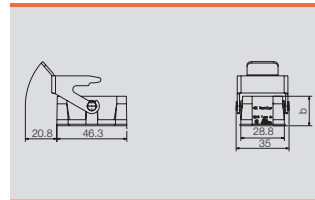
Size HQ

Base

Bulkhead housing



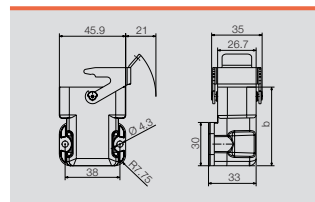
Version	Cover	b (mm)	Type	Order No.
		19.5	HDC HQP ALU	1003040000



Bulkhead housing, angled



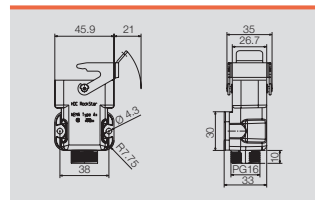
Version	Cover	b (mm)	Type	Order No.
angled		54.5	HDC HQP AWLU	1003060000



Base housing



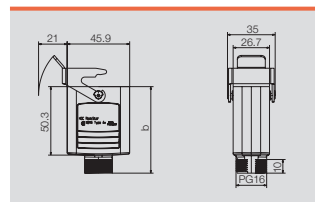
a	Version	Cover	b (mm)	Type	Order No.
PG 16	w. threading		54.5	HDC HQP SLU 1PG16	1003110000



Coupling housing



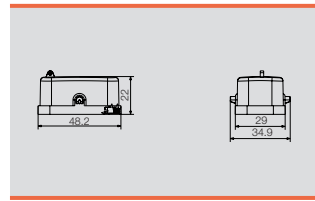
a	Version	Cover	b (mm)	Type	Order No.
PG 16	w. threading		63.5	HDC HQP KOLU 1PG16	1003120000



Cover



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



Note For plastic and metal housings

E

RockStar® Housings IP66 / NEMA Type 4X

Die cast zinc housing (EMC)

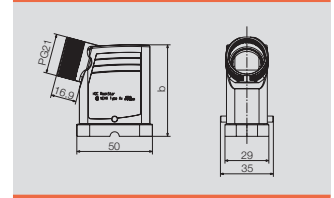
Size HQ

Hood

Plug housing, cable entry sideways



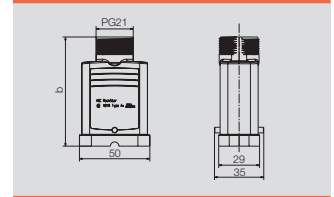
a	Version	Cover	b (mm)	Type	Order No.
PG 21	w. threading		60.5	HDC HQM TSLU 1PG21	1003100000



Plug housing, cable entry at top



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



Die cast zinc housing (EMC)

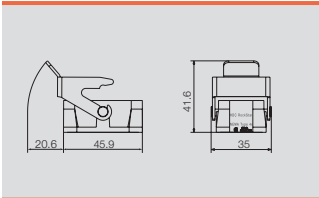
Size HQ

Base

Bulkhead housing



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

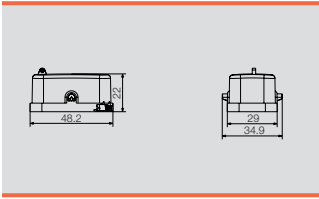


Cover



Material: Plastic

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



Note For plastic and metal housings

RockStar® Housings IP66 / NEMA Type 4X

End locking, lower side

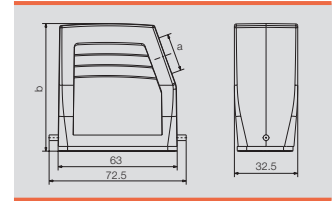
Size 2

Hood

Plug housing, cable entry sideways



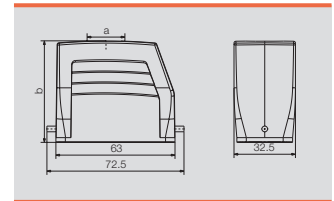
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		54	HDC 10A TSLU 1M20G	1967660000
M 20	w. threading		68	HDC 15A TSLU 1M20G	1788860000
M 25	w. threading		68	HDC 15A TSLU 1M25G	1788850000
PG 16	w. threading		54	HDC 10A TSLU 1PG16G	1663810000
PG 16	w. threading		68	HDC 15A TSLU 1PG16G	1663850000
PG 21	w. threading		68	HDC 15A TSLU 1PG21G	1663870000



Plug housing, cable entry at top



a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		54	HDC 10A TOLU 1M20G	1788620000
M 25	w. threading		54	HDC 10A TOLU 1M25G	1788610000
PG 11	w. threading		54	HDC 10A TOLU 2PG11G	1746170000
PG 16	w. threading		54	HDC 10A TOLU 1PG16G	1663930000
PG 21	w. threading		68	HDC 15A TOLU 1PG21G	1663990000

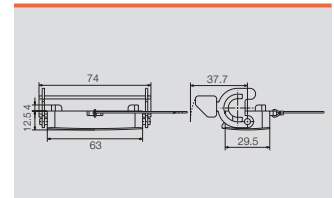


E

Cover



Version	Type	Order No.
For hoods	HDC 10A DODL 1LB	1665890000



End locking, lower side

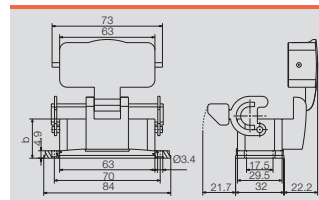
Size 2

Base

Bulkhead housing



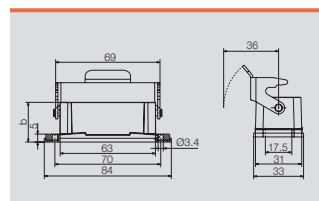
Version	Cover	b (mm)	Type	Order No.
		25	HDC 10A ALU	1664040000
	with cover	37.5	HDC 10A ADLU	1664060000



Bulkhead housing



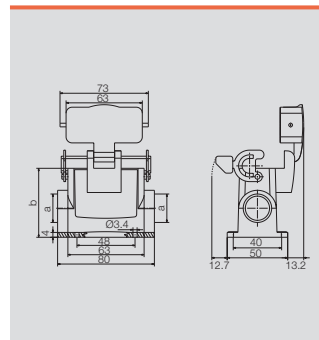
Version	Cover	b (mm)	Type	Order No.
		26	HDC 10A ALU SL	1021450000



Base housing



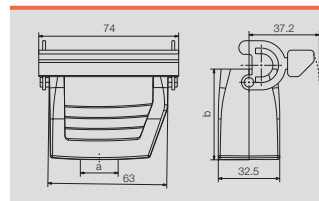
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		57	HDC 10A SLU 1M20G	1901100000
M 20	w. threading	with cover	69.5	HDC 10A SDLU 1M20G	1901010000
M 20	w. threading		57	HDC 10A SLU 2M20G	1788640000
M 20	w. threading	with cover	69.5	HDC 10A SDLU 2M20G	1788660000
M 25	w. threading		57	HDC 10A SLU 1M25G	1901160000
M 25	w. threading	with cover	69.5	HDC 10A SDLU 1M25G	1901040000
M 25	w. threading		57	HDC 10A SLU 2M25G	1788630000
M 25	w. threading	with cover	69.5	HDC 10A SDLU 2M25G	1788650000
PG 16	w. threading		57	HDC 10A SLU 1PG16G	1664170000
PG 16	w. threading	with cover	69.5	HDC 10A SDLU 1PG16G	1664410000
PG 16	w. threading		57	HDC 10A SLU 2PG16G	1664190000
PG 16	w. threading	with cover	69.5	HDC 10A SDLU 2PG16G	1664420000
PG 21	w. threading		57	HDC 10A SLU 1PG21G	1664210000



Coupling housing



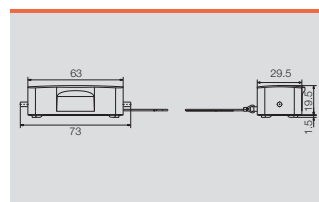
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		48	HDC 10A KLU 1M25G	1788670000
PG 9	w. threading		48	HDC 10A KLU 2PG09G	1783250000
PG 16	w. threading		48	HDC 10A KLU 1PG16G	1664560000
PG 21	w. threading		62	HDC 15A KLU 1PG21G	1664630000



Cover



Version	Type	Order No.
For bases	HDC 10A DMDL 2BO	1665880000



RockStar® Housings IP66 / NEMA Type 4X

End locking, lower side

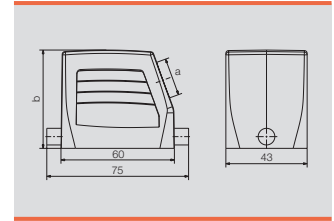
Size 3

Hood

Plug housing, cable entry sideways



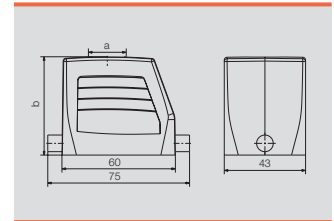
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		52	HDC 06B TSLU 1M20G	1788100000
M 25	w. threading		52	HDC 06B TSLU 1M25G	1788090000
M 25	w. threading		72	HDC 16D TSLU 1M25G	1787480000
M 32	w. threading		72	HDC 16D TSLU 1M32G	1787470000
PG 13.5	w. threading		52	HDC 06B TSLU 1PG13G	1670530000
PG 16	w. threading		52	HDC 06B TSLU 1PG16G	1652520000
PG 21	w. threading		72	HDC 16D TSLU 1PG21G	1652560000
PG 29	w. threading		72	HDC 16D TSLU 1PG29G	1652580000



Plug housing, cable entry at top



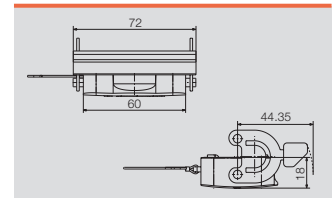
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		52	HDC 06B TOLU 1M20G	1788120000
M 25	w. threading		52	HDC 06B TOLU 1M25G	1788110000
M 25	w. threading		72	HDC 16D TOLU 1M25G	1787500000
M 32	w. threading		72	HDC 16D TOLU 1M32G	1787490000
PG 13.5	w. threading		52	HDC 06B TOLU 1PG13G	1670500000
PG 16	w. threading		52	HDC 06B TOLU 1PG16G	1652640000
PG 21	w. threading		72	HDC 16D TOLU 1PG21G	1652680000
PG 29	w. threading		72	HDC 16D TOLU 1PG29G	1652700000



Cover



Version	Type	Order No.
For hoods	HDC 06B DMDL 1LB	1665210000



End locking, lower side

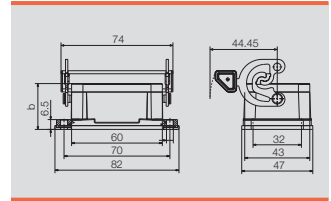
Size 3

Base

Bulkhead housing



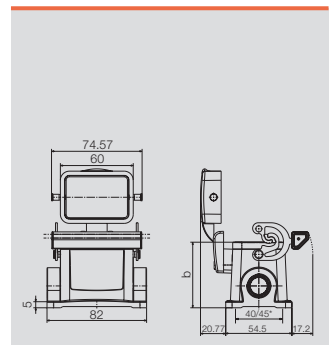
Version	Cover	b (mm)	Type	Order No.
		29	HDC 06B ALU	1202100000
	with cover	47	HDC 06B ADLU	1202500000
		27.8	HDC 06B ALU O-RING	1019870000



Base housing



a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		54	HDC 06B SLU 1M20G	1900460000
M 20	w. threading	with cover	72	HDC 06B SDLU 1M20G	1900360000
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 1M25G	1900480000
M 25	w. threading	with cover	72	HDC 06B SDLU 1M25G	1900380000
M 25	w. threading		74	HDC 16D SLU 1M25G	1900880000
M 25	w. threading	with cover	92	HDC 16D SDLU 1M25G	1900820000
M 25	w. threading		54	HDC 06B SLU 2M25G	1788130000
M 25	w. threading		74	HDC 16D SLU 2M25G	1787520000
M 25	w. threading	with cover	92	HDC 16D SDLU 2M25G	1787540000
M 25	w. threading	with cover	72	HDC 06B SDLU 2M25G	1788160000
M 32	w. threading		74	HDC 16D SLU 1M32G	1900900000
M 32	w. threading		74	HDC 16D SLU 2M32G	1787510000
PG 16	w. threading		54	HDC 06B SLU 1PG16G	1652750000
PG 16	w. threading	with cover	72	HDC 06B SDLU 1PG16G	1652980000
PG 16	w. threading		54	HDC 06B SLU 2PG16G	1652760000
PG 16	w. threading	with cover	72	HDC 06B SDLU 2PG16G	1652990000
PG 21	w. threading		74	HDC 16D SLU 2PG21G	1652840000

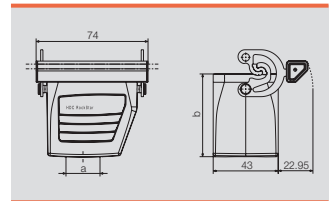


* Mounting dimensions for size-3 base housings, tall shape (16D)

Coupling housing



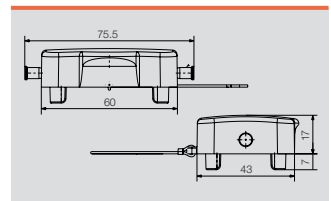
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		55	HDC 06B KLU 1M25G	1021330000
PG 21	w. threading		75	HDC 16D KLU 1PG21G	1653230000
PG 16	w. threading		55	HDC 06B KLU 1PG16G	1653200000



Cover



Version	Type	Order No.
For bases	HDC 06B DODL 2B0	1665200000



RockStar® Housings IP66 / NEMA Type 4X

Side locking, lower side

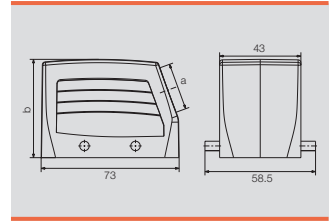
Size 4

Hood

Plug housing, cable entry sideways



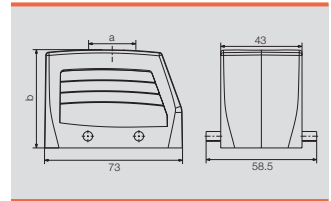
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		52	HDC 10B TSBU 1M20G	1787560000
M 25	w. threading		52	HDC 10B TSBU 1M25G	1787550000
M 25	w. threading		72	HDC 24D TSBU 1M25G	1787240000
M 32	w. threading		72	HDC 24D TSBU 1M32G	1787230000
PG 16	w. threading		52	HDC 10B TSBU 1PG16G	1654070000
PG 21	w. threading		52	HDC 10B TSBU 1PG21G	1654090000
PG 21	w. threading		72	HDC 24D TSBU 1PG21G	1654150000
PG 29	w. threading		72	HDC 24D TSBU 1PG29G	1654170000



Plug housing, cable entry at top



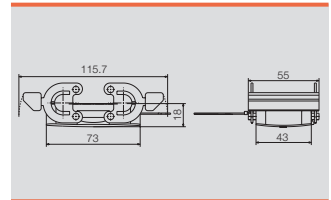
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		52	HDC 10B TOBU 1M20G	1787600000
M 25	w. threading		52	HDC 10B TOBU 1M25G	1787590000
M 25	w. threading		72	HDC 24D TOBU 1M25G	1787300000
M 32	w. threading		72	HDC 24D TOBU 1M32G	1787290000
PG 16	w. threading		52	HDC 10B TOBU 1PG16G	1654220000
PG 21	w. threading		52	HDC 10B TOBU 1PG21G	1654240000
PG 29	w. threading		72	HDC 24D TOBU 1PG29G	1654320000



Cover



Version	Type	Order No.
For hoods	HDC 10B DMDQ 2QB	1665240000



Side locking, lower side

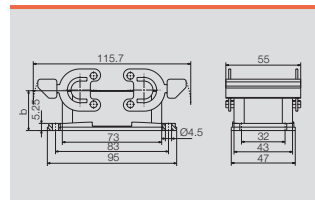
Size 4

Base

Bulkhead housing



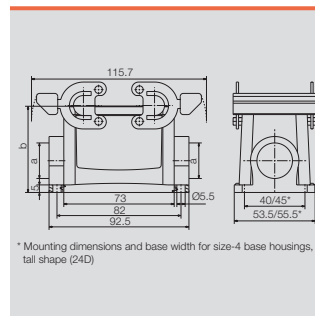
Version	Cover	b (mm)	Type	Order No.
29.3	HDC 10B ABU			120500000



Base housing



a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		57	HDC 10B SBU 1M20G	1901360000
M 20	w. threading		57	HDC 10B SBU 2M20G	1787640000
M 25	w. threading		57	HDC 10B SBU 1M25G	1901370000
M 25	w. threading		57	HDC 10B SBU 2M25G	1787630000
M 25	w. threading		74	HDC 24D SBU 1M25G	1903210000
M 25	w. threading		74	HDC 24D SBU 2M25G	1787350000
M 32	w. threading		74	HDC 24D SBU 1M32G	1903220000
M 32	w. threading		74	HDC 24D SBU 2M32G	1787360000
PG 16	w. threading		57	HDC 10B SBU 1PG16G	1654370000
PG 16	w. threading		57	HDC 10B SBU 2PG16G	1654380000
PG 21	w. threading		74	HDC 24D SBU 2PG21G	1654450000
PG 29	w. threading		74	HDC 24D SBU 1PG29G	1654470000

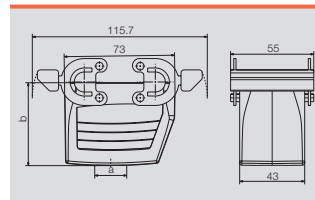


* Mounting dimensions and base width for size-4 base housings, tall shape (24D)

Coupling housing



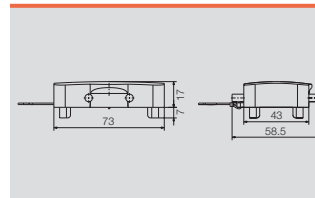
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		55	HDC 10B KBU 1M20G	1787720000
M 25	w. threading		55	HDC 10B KBU 1M25G	1021250000
PG 16	w. threading		55	HDC 10B KBU 1PG16G	1654580000



Cover



Version	Type	Order No.
For bases	HDC 10B DODQ 4B0	1665230000



RockStar® Housings IP66 / NEMA Type 4X

End locking, lower side

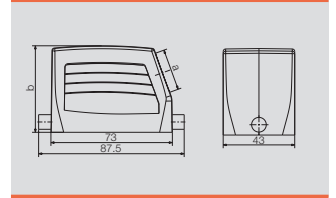
Size 4

Hood

Plug housing, cable entry sideways



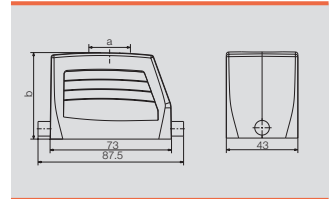
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		52	HDC 10B TSLU 1M25G	1787580000
M 25	w. threading		72	HDC 24D TSLU 1M25G	1787280000
M 32	w. threading		72	HDC 24D TSLU 1M32G	1787270000
PG 16	w. threading		52	HDC 10B TSLU 1PG16G	1655210000
PG 21	w. threading		72	HDC 24D TSLU 1PG21G	1655250000
PG 29	w. threading		72	HDC 24D TSLU 1PG29G	1655270000



Plug housing, cable entry at top



a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		52	HDC 10B TOLU 1M25G	1787620000
M 25	w. threading		72	HDC 24D TOLU 1M25G	1787340000
M 32	w. threading		72	HDC 24D TOLU 1M32G	1787330000
PG 16	w. threading		52	HDC 10B TOLU 1PG16G	1655320000
PG 21	w. threading		72	HDC 24D TOLU 1PG21G	1655360000
PG 29	w. threading		72	HDC 24D TOLU 1PG29G	1655380000



End locking, lower side

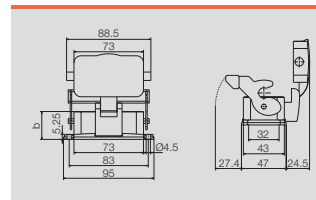
Size 4

Base

Bulkhead housing



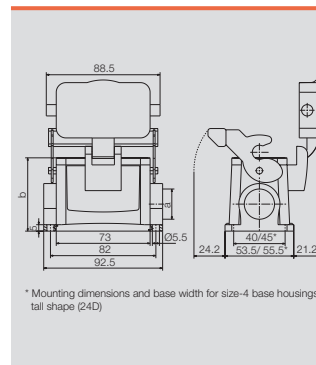
Version	Cover	b (mm)	Type	Order No.
		29.3	HDC 10B ALU	1206100000
	with cover	47	HDC 10B ADLU	1206500000



Base housing



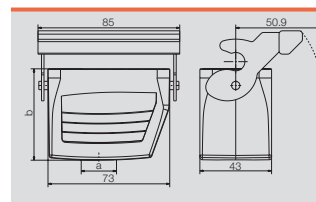
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		57	HDC 10B SLU 1M20G	1901620000
M 20	w. threading	with cover	79.5	HDC 10B SDLU 1M20G	1901570000
M 20	w. threading		57	HDC 10B SLU 2M20G	1787660000
M 20	w. threading	with cover	79.5	HDC 10B SDLU 2M20G	1787700000
M 25	w. threading		57	HDC 10B SLU 1M25G	1901640000
M 25	w. threading	with cover	96.5	HDC 24D SDLU 1M25G	1903410000
M 25	w. threading		57	HDC 10B SLU 2M25G	1787650000
M 25	w. threading	with cover	96.5	HDC 24D SDLU 2M25G	1787420000
M 32	w. threading		74	HDC 24D SLU 1M32G	1903560000
M 32	w. threading	with cover	96.5	HDC 24D SDLU 1M32G	1903510000
M 32	w. threading		74	HDC 24D SLU 2M32G	1787370000
M 32	w. threading	with cover	96.5	HDC 24D SDLU 2M32G	1787410000
PG 16	w. threading		57	HDC 10B SLU 2PG16G	1655470000
PG 16	w. threading	with cover	79.5	HDC 10B SDLU 2PG16G	1655680000



Coupling housing



a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		55	HDC 10B KLU 1M20G	1787740000
M 25	w. threading		55	HDC 10B KLU 1M25G	1787730000
M 25	w. threading		75	HDC 24D KLU 1M25G	1787460000
M 32	w. threading		75	HDC 24D KLU 1M32G	1787450000
PG 16	w. threading		55	HDC 10B KLU 1PG16G	1655890000



Side locking, upper side

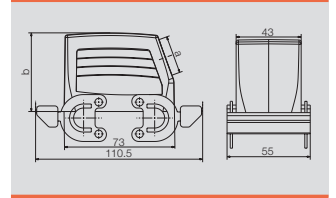
Size 4

Hood

Plug housing, cable entry sideways



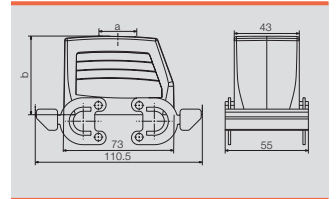
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		52	HDC 10B TSBO 1M25G	1787570000
M 25	w. threading		72	HDC 24D TSBO 1M25G	1787260000
M 32	w. threading		72	HDC 24D TSBO 1M32G	1787250000
PG 16	w. threading		52	HDC 10B TSBO 1PG16G	1654750000
PG 16	w. threading		72	HDC 24D TSBO 1PG16G	1654810000
PG 21	w. threading		72	HDC 24D TSBO 1PG21G	1654790000



Plug housing, cable entry at top



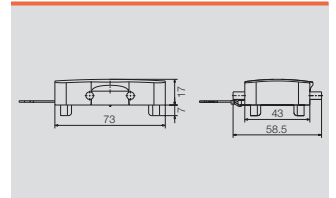
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		52	HDC 10B TOBO 1M25G	1787610000
PG 16	w. threading		52	HDC 10B TOBO 1PG16G	1654860000
PG 29	w. threading		72	HDC 24D TOBO 1PG29G	1654920000



Cover



Version	Type	Order No.
For hoods	HDC 10B DMDQ 4BO	1665250000

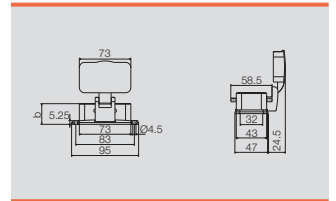


Base

Bulkhead housing



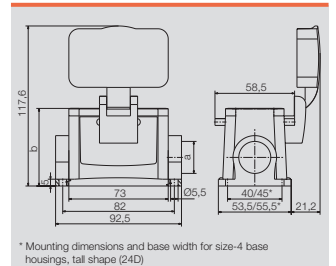
Version	Cover	b (mm)	Type	Order No.
			HDC 10B ABO	1052430000
	with cover	51.6	HDC 10B ADBO	1205600000



Base housing



a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading	with cover	79.5	HDC 10B SDBO 1M20G	1901490000
M 20	w. threading	with cover	79.5	HDC 10B SDBO 2M20G	1787680000
M 25	w. threading	with cover	79.5	HDC 10B SDBO 1M25G	1901510000
M 25	w. threading	with cover	96.5	HDC 24D SDBO 1M25G	1903370000
M 25	w. threading	with cover	79.5	HDC 10B SDBO 2M25G	1787670000
M 25	w. threading	with cover	96.5	HDC 24D SDBO 2M25G	1787400000
PG 16	w. threading	with cover	79.5	HDC 10B SDBO 2PG16G	1655000000

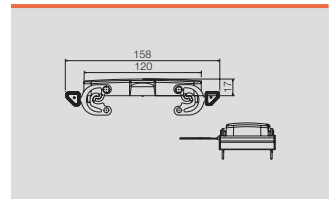


* Mounting dimensions and base width for size-4 base housings, tall shape (24D)

Cover



Version	Type	Order No.
For bases	HDC 10B DODQ 2QB	1009080000



RockStar® Housings IP66 / NEMA Type 4X

Central-locking clamp

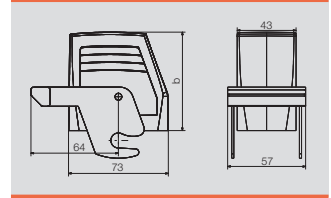
Size 4

Hood

Plug housing, cable entry sideways



a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		72	HDC 24D TSZO 1M25G	1903610000
PG 21	w. threading		72	HDC 24D TSZO 1PG21G	1968360000

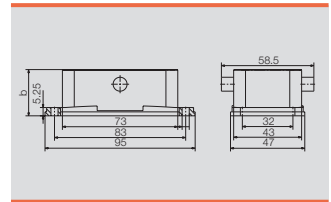


Base

Bulkhead housing



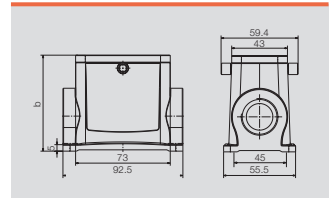
Version	Cover	b (mm)	Type	Order No.
		29.3	HDC 10B AZO	1901700000



Base housing



a	Version	Cover	b (mm)	Type	Order No.
PG 21	w. threading		74	HDC 24D SZO 2PG21G	1968350000



RockStar® Housings IP66 / NEMA Type 4X

End locking, lower side

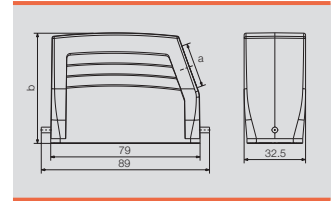
Size 5

Hood

Plug housing, cable entry sideways



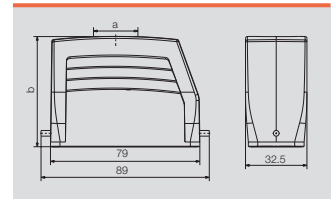
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		58	HDC 16A TSLU 1M20G	1041760000
M 20	w. threading		72	HDC 25A TSLU 1M20G	1788680000
M 25	w. threading		58	HDC 16A TSLU 1M25G	1788740000
M 25	w. threading		72	HDC 25A TSLU 1M25G	1788690000
PG 16	w. threading		58	HDC 16A TSLU 1PG16G	1664690000
PG 16	w. threading		72	HDC 25A TSLU 1PG16G	1664730000
PG 21	w. threading		72	HDC 25A TSLU 1PG21G	1664750000



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
PG 16	w. threading		58	HDC 16A TOLU 1PG16G	1664810000
PG 21	w. threading		72	HDC 25A TOLU 1PG21G	1664870000

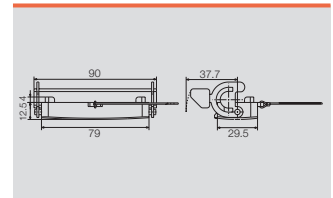


E

Cover



Version	Type	Order No.
For hoods	HDC 16A DODL 1LB	1665900000



End locking, lower side

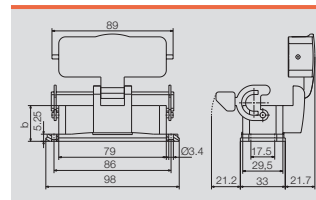
Size 5

Base

Bulkhead housing



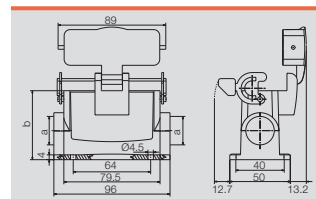
Version	Cover	b (mm)	Type	Order No.
		25	HDC 16A ALU	1664920000
	with cover	44.5	HDC 16A ADLU	1664940000



Base housing



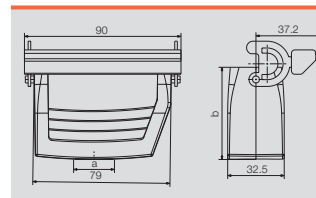
a	Version	Cover	b (mm)	Type	Order No.
M 20	w. threading		57	HDC 16A SLU 2M20G	1788770000
M 20	w. threading	with cover	76.5	HDC 16A SDLU 2M20G	1788790000
M 25	w. threading		57	HDC 16A SLU 2M25G	1788760000
M 25	w. threading	with cover	76.5	HDC 16A SDLU 2M25G	1788780000
PG 16	w. threading		57	HDC 16A SLU 2PG16G	1665070000
PG 16	w. threading	with cover	76.5	HDC 16A SDLU 2PG16G	1665300000
PG 21	w. threading		57	HDC 16A SLU 1PG21G	1665090000



Coupling housing



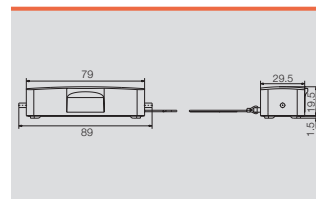
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		53	HDC 16A KLU 1M25G	1788800000
PG 16	w. threading		53	HDC 16A KLU 1PG16G	1665450000



Cover



Version	Type	Order No.
For bases	HDC 16A DMDL 2BO	1665910000



E

Side locking, lower side

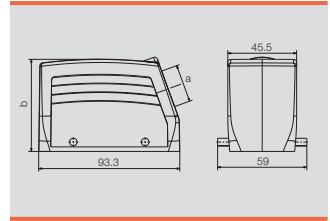
Size 6

Hood

Plug housing, cable entry sideways



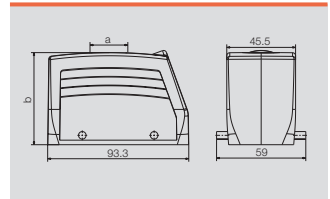
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 16B TSBU 1M25G	1788180000
M 25	w. threading		76	HDC 40D TSBU 1M25G	1787010000
M 32	w. threading		76	HDC 40D TSBU 1M32G	1787000000
M 40	w. threading		61	HDC 16B TSBU 1M40G	1809620000
M 40	w. threading		76	HDC 40D TSBU 1M40G	1904800000
PG 21	w. threading		61	HDC 16B TSBU 1PG21G	1656480000
PG 21	w. threading		76	HDC 40D TSBU 1PG21G	1656520000
PG 29	w. threading		76	HDC 40D TSBU 1PG29G	1656540000



Plug housing, cable entry at top



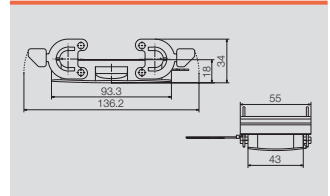
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 16B TOBU 1M25G	1788210000
M 25	w. threading		76	HDC 40D TOBU 1M25G	1787070000
M 32	w. threading		76	HDC 40D TOBU 1M32G	1787060000
PG 21	w. threading		61	HDC 16B TOBU 1PG21G	1656590000
PG 21	w. threading		76	HDC 40D TOBU 1PG21G	1656630000
PG 29	w. threading		76	HDC 40D TOBU 1PG29G	1656650000



Cover



Version	Type	Order No.
For hoods	HDC 16B DMDQ 2QB	1665270000



Side locking, lower side

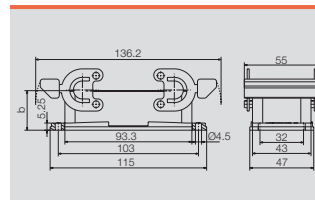
Size 6

Base

Bulkhead housing



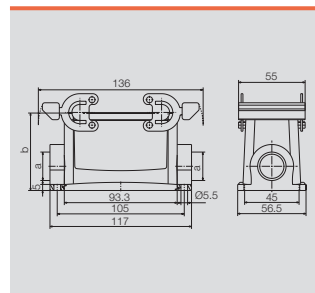
Version	Cover	b (mm)	Type	Order No.
29	HDC 16B ABU			120860000



Base housing



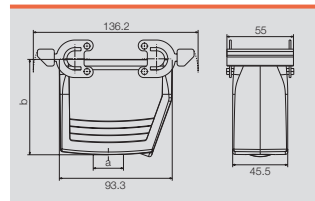
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		64	HDC 16B SBU 1M25G	1899980000
M 25	w. threading		84	HDC 40D SBU 1M25G	1902970000
M 25	w. threading		64	HDC 16B SBU 2M25G	1788240000
M 25	w. threading		84	HDC 40D SBU 2M25G	1787120000
M 32	w. threading		84	HDC 40D SBU 1M32G	1902990000
M 32	w. threading		84	HDC 40D SBU 2M32G	1787110000
PG 21	w. threading		64	HDC 16B SBU 1PG21G	1656720000
PG 21	w. threading		64	HDC 16B SBU 2PG21G	1656730000
PG 21	w. threading		84	HDC 40D SBU 2PG21G	1656810000
PG 29	w. threading		84	HDC 40D SBU 1PG29G	1656830000
PG 29	w. threading		84	HDC 40D SBU 2PG29G	1656840000



Coupling housing



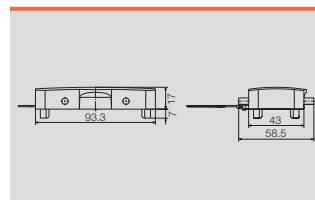
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		79	HDC 40D KBU 1M25G	1787200000
M 32	w. threading		79	HDC 40D KBU 1M32G	1787190000
PG 21	w. threading		64	HDC 16B KBU 1PG21G	1657270000
PG 21	w. threading		79	HDC 40D KBU 1PG21G	1657310000
PG 29	w. threading		79	HDC 40D KBU 1PG29G	1967670000



Cover



Version	Type	Order No.
For bases	HDC 16B DODQ 4B0	1665260000



RockStar® Housings IP66 / NEMA Type 4X

End locking, lower side

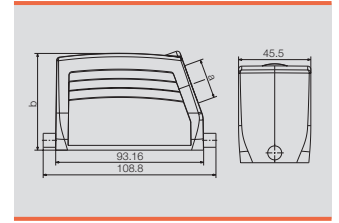
Size 6

Hood

Plug housing, cable entry sideways



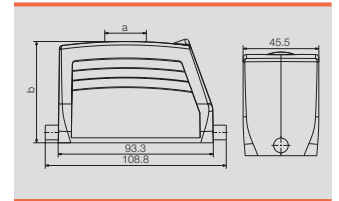
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading	61	HDC 16B TSLU 1M25G	1788200000	
M 25	w. threading	76	HDC 40D TSLU 1M25G	1787050000	
M 32	w. threading	61	HDC 16B TSLU 1M32G	1804640000	
M 32	w. threading	76	HDC 40D TSLU 1M32G	1787040000	
M 40	w. threading	76	HDC 40D TSLU 1M40G	1804650000	
PG 21	w. threading	61	HDC 16B TSLU 1PG21G	1657850000	
PG 21	w. threading	76	HDC 40D TSLU 1PG21G	1657890000	
PG 29	w. threading	76	HDC 40D TSLU 1PG29G	1657910000	



Plug housing, cable entry at top



a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading	61	HDC 16B TOLU 1M25G	1788230000	
M 32	w. threading	61	HDC 16B TOLU 1M32G	1804630000	
M 32	w. threading	76	HDC 40D TOLU 1M32G	1787100000	
PG 21	w. threading	61	HDC 16B TOLU 1PG21G	1657960000	
PG 29	w. threading	76	HDC 40D TOLU 1PG29G	1658020000	



End locking, lower side

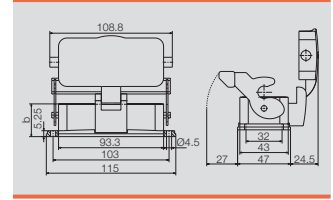
Size 6

Base

Bulkhead housing



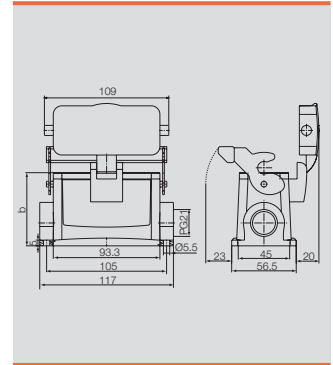
Version	Cover	b (mm)	Type	Order No.
		29	HDC 16B ALU	1209700000
	with cover	47	HDC 16B ADLU	1210100000



Base housing



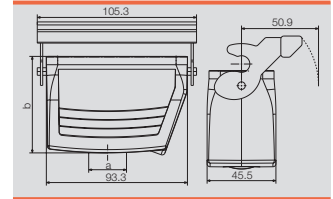
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		64	HDC 16B SLU 1M25G	1900170000
M 25	w. threading	with cover	102	HDC 40D SDLU 1M25G	1903070000
M 25	w. threading		64	HDC 16B SLU 2M25G	1788250000
M 25	w. threading	with cover	82	HDC 16B SDLU 2M25G	1788270000
M 25	w. threading	with cover	102	HDC 40D SDLU 2M25G	1787180000
M 32	w. threading		84	HDC 40D SLU 1M32G	1903110000
M 32	w. threading	with cover	102	HDC 40D SDLU 1M32G	1903080000
M 32	w. threading		84	HDC 40D SLU 2M32G	1804660000
M 32	w. threading	with cover	102	HDC 40D SDLU 2M32G	1787170000
PG 21	w. threading		64	HDC 16B SLU 1PG21G	1658110000
PG 21	w. threading	with cover	82	HDC 16B SDLU 1PG21G	1658320000
PG 21	w. threading		64	HDC 16B SLU 2PG21G	1658120000
PG 21	w. threading	with cover	82	HDC 16B SDLU 2PG21G	1658330000
PG 29	w. threading	with cover	102	HDC 40D SDLU 1PG29G	1658410000



Coupling housing



a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		64	HDC 16B KLU 1M25G	1788290000
M 25	w. threading		79	HDC 40D KLU 1M25G	1787220000



RockStar® Housings IP66 / NEMA Type 4X

Side locking, upper side

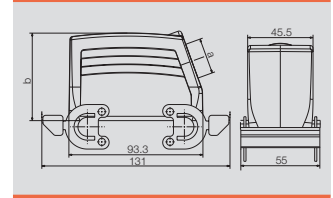
Size 6

Hood

Plug housing, cable entry sideways



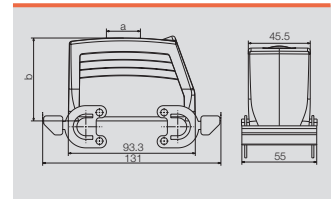
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 16B TSBO 1M25G	1788190000
M 25	w. threading		76	HDC 40D TSBO 1M25G	1787030000
M 32	w. threading		76	HDC 40D TSBO 1M32G	1787020000
PG 21	w. threading		61	HDC 16B TSBO 1PG21G	1657380000
PG 21	w. threading		76	HDC 40D TSBO 1PG21G	1657420000



Plug housing, cable entry at top



a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 16B TOBO 1M25G	1788220000
PG 21	w. threading		61	HDC 16B TOBO 1PG21G	1657490000
PG 29	w. threading		76	HDC 40D TOBO 1PG29G	1657550000

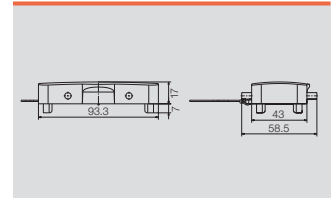


E

Cover



Version	Type	Order No.
For hoods	HDC 16B DMDQ 4B0	1665620000



Side locking, upper side

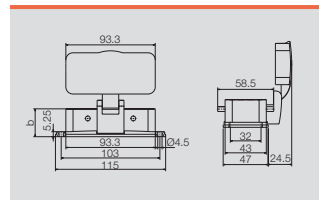
Size 6

Base

Bulkhead housing



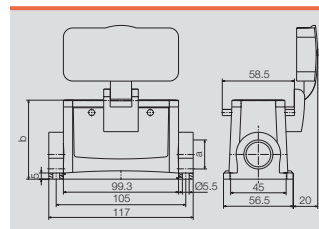
Version	Cover	b (mm)	Type	Order No.
	with cover	47	HDC 16B ADBO	1209200000



Base housing



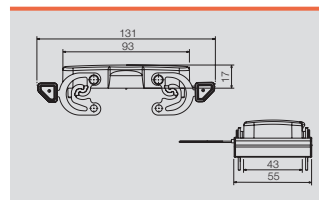
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading	with cover	82	HDC 16B SDBO 1M25G	1900080000
M 25	w. threading	with cover	82	HDC 16B SDBO 2M25G	1788260000
PG 21	w. threading	with cover	82	HDC 16B SDBO 2PG21G	1657640000



Cover



Version	Type	Order No.
For bases	HDC 16B DODQ 2QB	1009090000



RockStar® Housings IP66 / NEMA Type 4X

Side locking, lower side

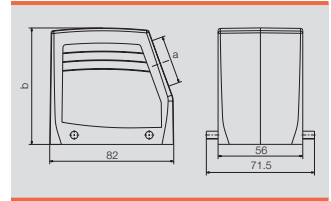
Size 7

Hood

Plug housing, cable entry sideways



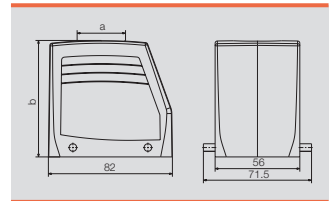
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		75	HDC 32A TSBU 1M25G	1787960000
M 32	w. threading		75	HDC 32A TSBU 1M32G	1787950000
PG 21	w. threading		75	HDC 32A TSBU 1PG21G	1665670000
PG 29	w. threading		75	HDC 32A TSBU 1PG29G	1665690000



Plug housing, cable entry at top



a	Version	Cover	b (mm)	Type	Order No.
M 32	w. threading		75	HDC 32A TOBU 1M32G	1787990000
PG 21	w. threading		75	HDC 32A TOBU 1PG21G	1665790000
PG 29	w. threading		75	HDC 32A TOBU 1PG29G	1665810000

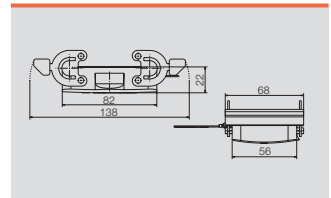


E

Cover



Version	Type	Order No.
For hoods	HDC 32A DMDQ 2QB	1665930000



Side locking, lower side

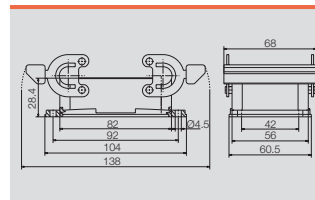
Size 7

Base

Bulkhead housing



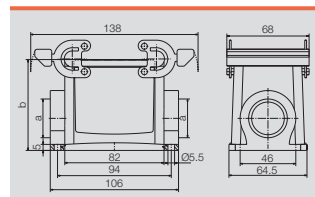
Version	Cover	b (mm)	Type	Order No.
		28.4	HDC 32A ABU	1665860000



Base housing



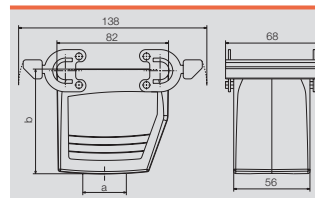
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		75	HDC 32A SBU 1M25G	1903870000
M 25	w. threading		75	HDC 32A SBU 2M25G	1788040000
PG 21	w. threading		75	HDC 32A SBU 2PG21G	1665980000
PG 29	w. threading		75	HDC 32A SBU 1PG29G	1666010000



Coupling housing



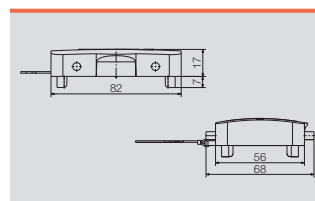
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		76.5	HDC 32A KBU 1M25G	1788080000
M 32	w. threading		76.5	HDC 32A KBU 1M32G	1788070000



Cover



Version	Type	Order No.
For bases	HDC 32A DODQ 4BO	1665920000



E

Side locking, upper side

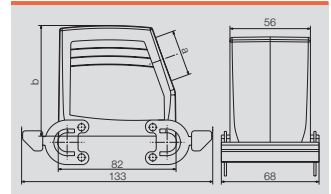
Size 7

Hood

Plug housing, cable entry sideways



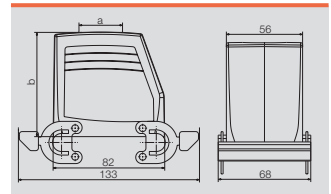
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		75	HDC 32A TSBO 1M25G	1787980000
M 32	w. threading		75	HDC 32A TSBO 1M32G	1787970000
PG 29	w. threading		75	HDC 32A TSBO 1PG29G	1666270000



Plug housing, cable entry at top



a	Version	Cover	b (mm)	Type	Order No.
M 32	w. threading		77	HDC 32A TOBO 1M32G	1788010000

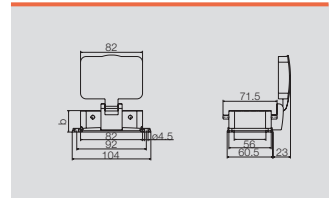


Base

Bulkhead housing



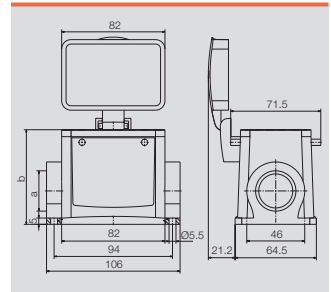
Version	Cover	b (mm)	Type	Order No.
	with cover	46.4	HDC 32A ADBO	1666440000



Base housing



a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading	with cover	97	HDC 32A SDBO 1M25G	1903900000
M 25	w. threading	with cover	97	HDC 32A SDBO 2M25G	1788060000
M 32	w. threading	with cover	97	HDC 32A SDBO 1M32G	1903910000
M 32	w. threading	with cover	97	HDC 32A SDBO 2M32G	1788050000
PG 21	w. threading	with cover	97	HDC 32A SDBO 1PG21G	1666550000
PG 29	w. threading	with cover	97	HDC 32A SDBO 1PG29G	1666590000



RockStar® Housings IP66 / NEMA Type 4X

Side locking, lower side

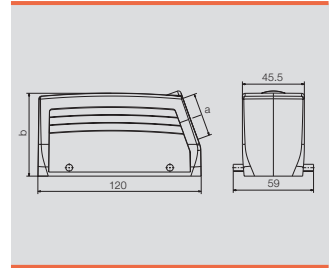
Size 8

Hood

Plug housing, cable entry sideways



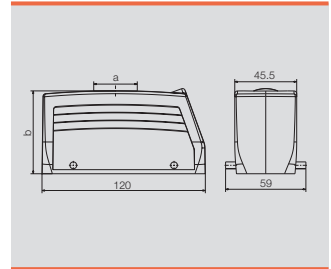
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 24B TSBU 1M25G	1787760000
M 25	w. threading		76	HDC 64D TSBU 1M25G	1786780000
M 32	w. threading		61	HDC 24B TSBU 1M32G	1787750000
M 32	w. threading		76	HDC 64D TSBU 1M32G	1786770000
M 40	w. threading		61	HDC 24B TSBU 1M40G	1902480000
M 40	w. threading		76	HDC 64D TSBU 1M40G	1809630000
PG 21	w. threading		61	HDC 24B TSBU 1PG21G	1661230000
PG 21	w. threading		76	HDC 64D TSBU 1PG21G	1661300000
PG 29	w. threading		61	HDC 24B TSBU 1PG29G	1661240000
PG 29	w. threading		76	HDC 64D TSBU 1PG29G	1661320000



Plug housing, cable entry at top



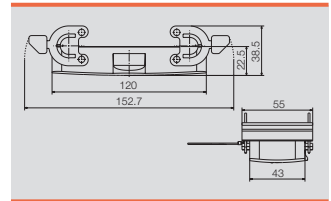
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 24B TOBU 1M25G	1787820000
M 32	w. threading		61	HDC 24B TOBU 1M32G	1787810000
M 32	w. threading		76	HDC 64D TOBU 1M32G	1786830000
M 32	w. threading		76	HDC 64D TOBU 2M32G	1009710000
M 40	w. threading		61	HDC 24B TOBU 1M40G	1902980000
M 40	w. threading		61	HDC 64D TOBU 1M40G	1045560000
PG 21	w. threading		61	HDC 24B TOBU 1PG21G	1661370000
PG 21	w. threading		76	HDC 64D TOBU 1PG21G	1661440000
PG 29	w. threading		61	HDC 24B TOBU 1PG29G	1661380000
PG 29	w. threading		76	HDC 64D TOBU 1PG29G	1661460000



Cover



Version	Type	Order No.
For hoods	HDC 24B DMDQ 2QB	1665640000



Side-locking clamp on the bottom section

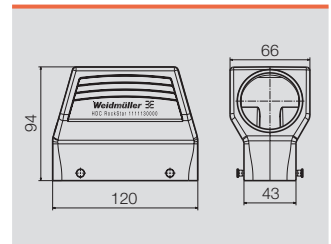
Size 8

upper section

XXL connector housing, cable exit on side



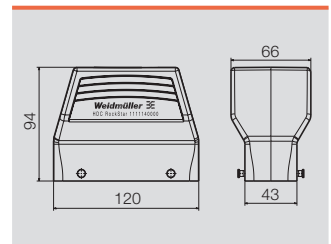
a	Version	Cover	B (mm)	Type	Order No.
M50	with threading		94	HDC 64D TSBU 1M50G	1111130000



XXL connector housing, cable exit on top



a	Version	Cover	B (mm)	Type	Order No.
M50	with threading		94	HDC 64D TOBU 1M50G	1111140000



Side locking, lower side

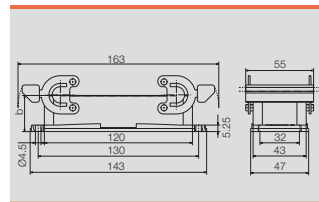
Size 8

Base

Bulkhead housing



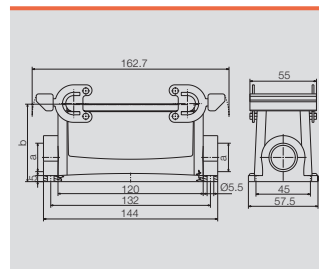
Version	Cover	b (mm)	Type	Order No.
29.3	HDC 24B ABU			1212400000



Base housing



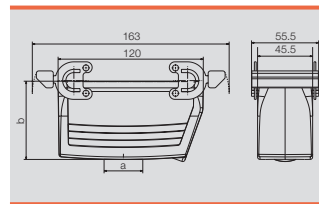
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		64	HDC 24B SBU 1M25G	1901150000
M 25	w. threading		84	HDC 64D SBU 1M25G	1904340000
M 25	w. threading		64	HDC 24B SBU 2M25G	1787870000
M 25	w. threading		84	HDC 64D SBU 2M25G	1786890000
M 32	w. threading		84	HDC 64D SBU 1M32G	1904350000
M 32	w. threading		84	HDC 64D SBU 2M32G	1786880000
PG 21	w. threading		64	HDC 24B SBU 1PG21G	1661510000
PG 21	w. threading		64	HDC 24B SBU 2PG21G	1661520000
PG 21	w. threading		84	HDC 64D SBU 2PG21G	1661590000
PG 29	w. threading		84	HDC 64D SBU 2PG29G	1661630000



Coupling housing



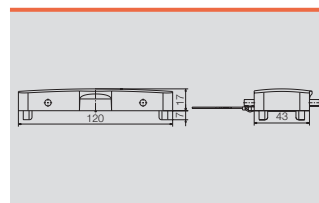
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		65	HDC 24B KBU 1M25G	1787920000
M 32	w. threading		79	HDC 64D KBU 1M32G	1786960000
PG 21	w. threading		65	HDC 24B KBU 1PG21G	1661720000
PG 29	w. threading		65	HDC 24B KBU 1PG29G	1661730000
PG 29	w. threading		79	HDC 64D KBU 1PG29G	1661810000



Cover



Version	Type	Order No.
For bases	HDC 24B DODQ 4B0	1665630000



RockStar® Housings IP66 / NEMA Type 4X

End locking, lower side

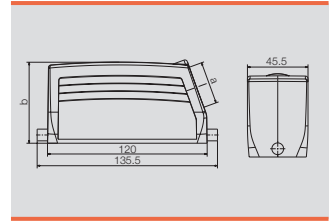
Size 8

Hood

Plug housing, cable entry sideways



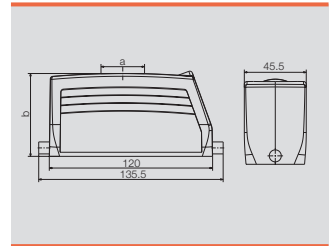
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 24B TSLU 1M25G	1787800000
M 32	w. threading		61	HDC 24B TSLU 1M32G	1787790000
M 32	w. threading		76	HDC 64D TSLU 1M32G	1786810000
M 40	w. threading		76	HDC 64D TSLU 1M40G	1804610000
PG 21	w. threading		76	HDC 64D TSLU 1PG21G	1662470000
PG 21	w. threading		61	HDC 24B TSLU 1PG21G	1662390000
PG 29	w. threading		61	HDC 24B TSLU 1PG29G	1662410000
PG 29	w. threading		76	HDC 64D TSLU 1PG29G	1662490000



Plug housing, cable entry at top



a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 24B TOLU 1M25G	1787860000
M 25	w. threading		92	HDC 64D TOLU 1M25G	1786870000
M 32	w. threading		61	HDC 24B TOLU 1M32G	1787850000
M 32	w. threading		92	HDC 64D TOLU 1M32G	1786860000
M 40	w. threading		92	HDC 64D TOLU 1M40G	1983470000
PG 21	w. threading		61	HDC 24B TOLU 1PG21G	1662540000
PG 21	w. threading		92	HDC 64D TOLU 1PG21G	1662610000
PG 29	w. threading		61	HDC 24B TOLU 1PG29G	1662550000
PG 29	w. threading		92	HDC 64D TOLU 1PG29G	1662630000



End-locking clamp on the bottom section

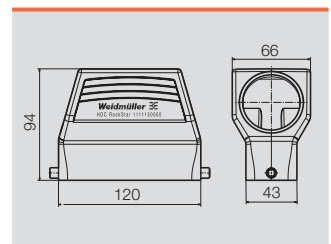
Size 8

upper section

XXL connector housing, cable exit on side



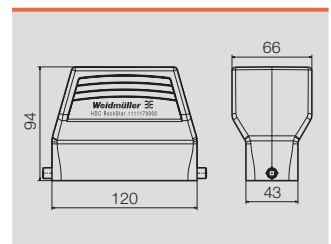
a	Version	Cover	B (mm)	Type	Order No.
M50	with threading		94	HDC 64D TSLU 1M50G	1111150000



XXL connector housing, cable exit on top



a	Version	Cover	B (mm)	Type	Order No.
M50	with threading		94	HDC 64D TOLU 1M50G	1111170000



End locking, lower side

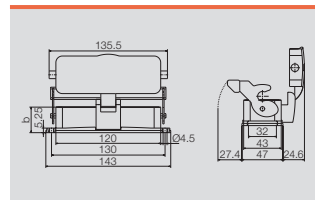
Size 8

Base

Bulkhead housing



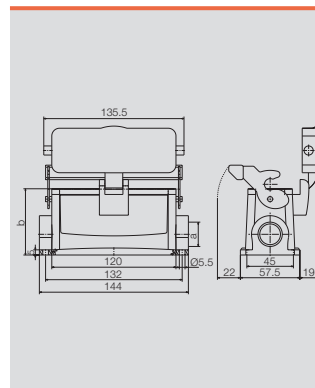
Version	Cover	b (mm)	Type	Order No.
		29.3	HDC 24B ALU	1213900000
	with cover	47	HDC 24B ADLU	1214300000



Base housing



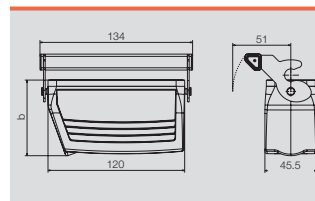
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		64	HDC 24B SLU 1M25G	1901560000
M 25	w. threading	with cover	86	HDC 24B SDLU 1M25G	1901480000
M 25	w. threading		84	HDC 64D SLU 1M25G	1904480000
M 25	w. threading	with cover	106	HDC 64D SDLU 1M25G	1904430000
M 25	w. threading		64	HDC 24B SLU 2M25G	1787880000
M 25	w. threading	with cover	86	HDC 24B SDLU 2M25G	1787900000
M 25	w. threading	with cover	106	HDC 64D SDLU 2M25G	1786950000
M 32	w. threading		84	HDC 64D SLU 1M32G	1904490000
M 32	w. threading	with cover	106	HDC 64D SDLU 1M32G	1904440000
M 32	w. threading		84	HDC 64D SLU 2M32G	1786900000
M 32	w. threading	with cover	106	HDC 64D SDLU 2M32G	1786940000
PG 21	w. threading		64	HDC 24B SLU 2PG21G	1662720000
PG 21	w. threading	with cover	86	HDC 24B SDLU 2PG21G	1214500000
PG 29	w. threading	with cover	106	HDC 64D SDLU 2PG29G	1663040000



Coupling housing



a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		63.8	HDC 24B KLU 1M25G	1968340000



RockStar® Housings IP66 / NEMA Type 4X

Side locking, upper side

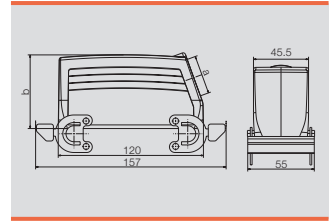
Size 8

Hood

Plug housing, cable entry sideways



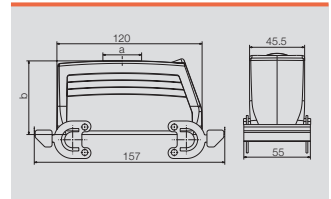
a	Version	Cover	b (mm)	Type	Order No.
M 25	w. threading		61	HDC 24B TSBO 1M25G	1787780000
M 25	w. threading		76	HDC 64D TSBO 1M25G	1786800000
M 32	w. threading		61	HDC 24B TSBO 1M32G	1787770000
M 32	w. threading		76	HDC 64D TSBO 1M32G	1786790000
PG 21	w. threading		61	HDC 24B TSBO 1PG21G	1661860000
PG 21	w. threading		76	HDC 64D TSBO 1PG21G	1661940000
PG 29	w. threading		61	HDC 24B TSBO 1PG29G	1661880000
PG 29	w. threading		76	HDC 64D TSBO 1PG29G	1661960000



Plug housing, cable entry at top



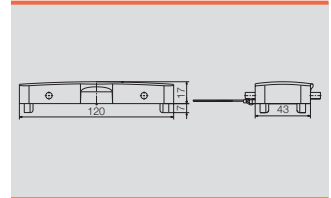
a	Version	Cover	b (mm)	Type	Order No.
M 32	w. threading		61	HDC 24B TOBO 1M32G	1787830000
PG 21	w. threading		76	HDC 64D TOBO 1PG21G	1662080000
PG 29	w. threading		61	HDC 24B TOBO 1PG29G	1662020000
PG 29	w. threading		76	HDC 64D TOBO 1PG29G	1662100000



Cover



Version	Type	Order No.
For hoods	HDC 24B DMDQ 4BO	1665650000

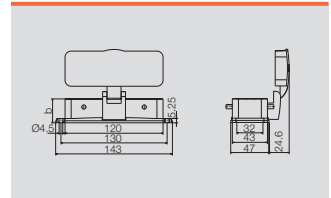


Base

Bulkhead housing



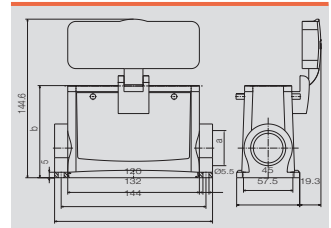
Version	Cover	b (mm)	Type	Order No.
		28.8	HDC 24B ABO	1967910000
	with cover	51.3	HDC 24B ADBO	1213300000



Base housing



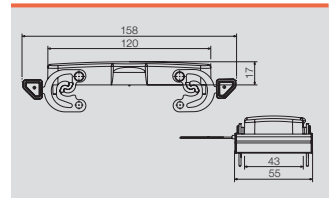
a	Version	Cover	b (mm)	Type	Order No.
M 32	w. threading	with cover	106	HDC 64D SDBO 1M32G	1904400000
M 32	w. threading	with cover	106	HDC 64D SDBO 2M32G	1786920000
PG 21	w. threading	with cover	86	HDC 24B SDBO 2PG21G	1662180000
PG 29	w. threading	with cover	106	HDC 64D SDBO 1PG29G	1662280000



Cover



Version	Type	Order No.
For bases	HDC 24B DODQ 2QB	1009100000



Central-locking clamp

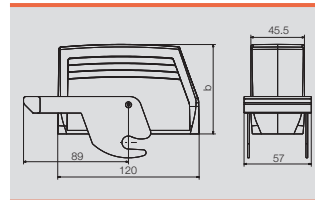
Size 8

Hood

Plug housing, cable entry sideways



a	Version	Cover	b (mm)	Type	Order No.
M 40	w. threading		76	HDC 64D TSO 1M40G	1904690000
PG 21	w. threading		76	HDC 64D TSO 1PG21G	1663370000
PG 29	w. threading		76	HDC 64D TSO 1PG29G	1663390000

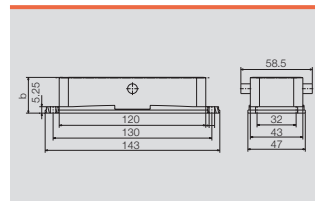


Base

Bulkhead housing



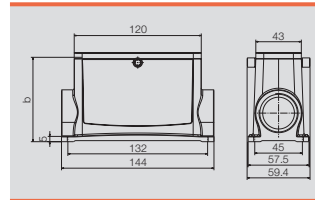
Version	Cover	b (mm)	Type	Order No.
		29.3	HDC 24B AZO	1611350000



Base housing



a	Version	Cover	b (mm)	Type	Order No.
PG 29	w. threading		84	HDC 64D SZO 2PG29G	1968370000



RockStar® Housings IP66 / NEMA Type 4X

End locking, lower side

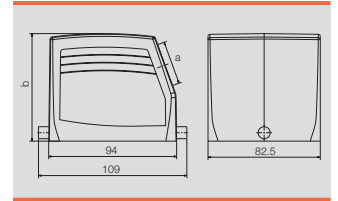
Size 9

Hood

Plug housing, cable entry sideways



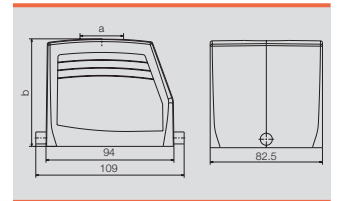
a	Version	Cover	b (mm)	Type	Order No.
M 32	w. threading		79	HDC 48A TSLU 1M32G	1788550000
PG 29	w. threading		79	HDC 48A TSLU 1PG29G	1666710000



Plug housing, cable entry at top



a	Version	Cover	b (mm)	Type	Order No.
M 32	w. threading		79	HDC 48A TOLU 1M32G	1788560000
PG 29	w. threading		79	HDC 48A TOLU 1PG29G	1666730000



End locking, lower side

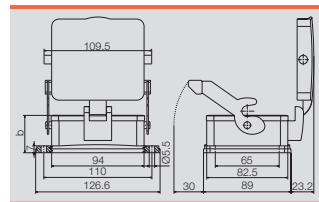
Size 9

Base

Bulkhead housing



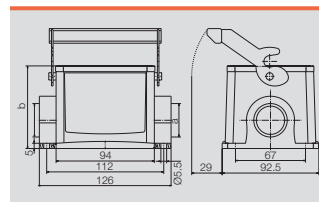
Version	Cover	b (mm)	Type	Order No.
		38	HDC 48A ALU	1666740000
	with cover	55	HDC 48A ADLU	1666750000



Base housing



a	Version	Cover	b (mm)	Type	Order No.
M 32	w. threading		79	HDC 48A SLU 2M32G	1788570000
PG 29	w. threading		79	HDC 48A SLU 1PG29G	1666770000
PG 29	w. threading	with cover	96	HDC 48A SDLU 1PG29G	1666810000



E

RockStar® Housings IP66 / NEMA Type 4X

Side locking, lower side

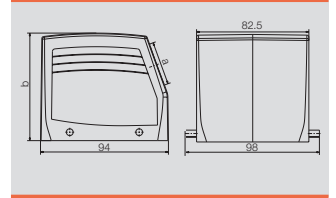
Size 10

Hood

Plug housing, cable entry sideways



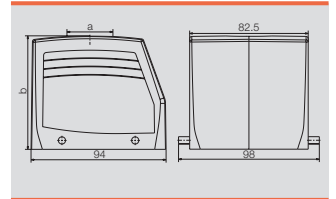
a	Version	Cover	b (mm)	Type	Order No.
M 32	w. threading		79	HDC 32B TSBU 1M32G	1788400000
PG 29	w. threading		79	HDC 32B TSBU 1PG29G	1666840000



Plug housing, cable entry at top



a	Version	Cover	b (mm)	Type	Order No.
M 32	w. threading		79	HDC 32B TOBU 1M32G	1788430000
PG 29	w. threading		79	HDC 32B TOBU 1PG29G	1666870000



Side locking, lower side

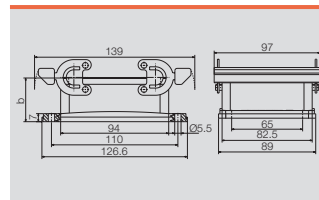
Size 10

Base

Bulkhead housing



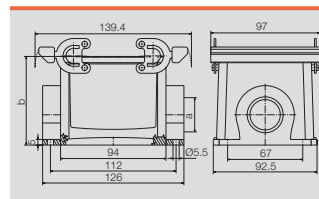
Version	Cover	b (mm)	Type	Order No.
		38	HDC 32B ABU	121780000



Base housing



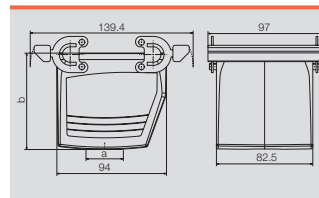
a	Version	Cover	b (mm)	Type	Order No.
M 32	w. threading		79	HDC 32B SBU 1M32G	190260000
M 32	w. threading		79	HDC 32B SBU 2M32G	1788460000
PG 29	w. threading		79	HDC 32B SBU 2PG29G	1666920000
PG 36	w. threading		79	HDC 32B SBU 1PG36G	1902610000
PG 36	w. threading		79	HDC 32B SBU 2PG36G	1902640000



Coupling housing



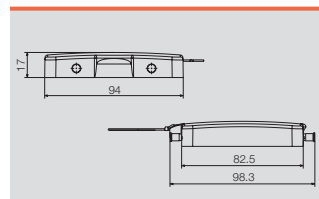
a	Version	Cover	b (mm)	Type	Order No.
M 40	w. threading		83	HDC 32B KBU 1M40G	1902730000
PG 29	w. threading		83	HDC 32B KBU 1PG29G	1902740000
PG 36	w. threading		83	HDC 32B KBU 1PG36G	1902750000



Cover



Version	Type	Order No.
	HDC 32B DODQ 4BO	1165790000



RockStar® Housings IP66 / NEMA Type 4X

End locking, lower side

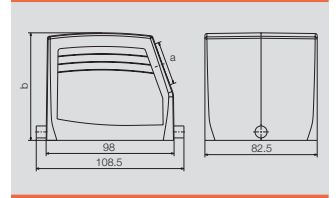
Size 10

Hood

Plug housing, cable entry sideways



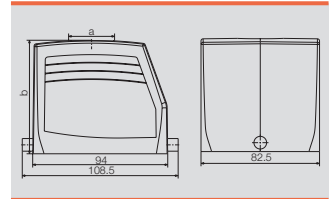
a	Version	Cover	b (mm)	Type	Order No.
M 32	w. threading		79	HDC 32B TSLU 1M32G	1788420000
PG 29	w. threading		79	HDC 32B TSLU 1PG29G	1667120000



Plug housing, cable entry at top



a	Version	Cover	b (mm)	Type	Order No.
M 32	w. threading		79	HDC 32B TOLU 1M32G	1788450000
PG 29	w. threading		79	HDC 32B TOLU 1PG29G	1219300000



End locking, lower side

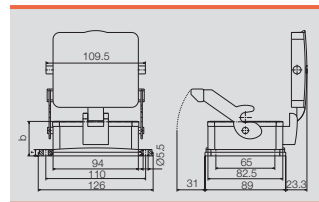
Size 10

Base

Bulkhead housing



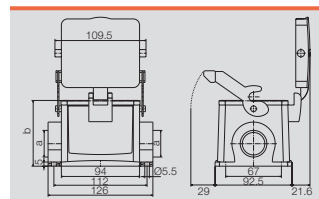
Version	Cover	b (mm)	Type	Order No.
		38	HDC 32B ALU	1219500000
	with cover	55	HDC 32B ADLU	1219800000



Base housing



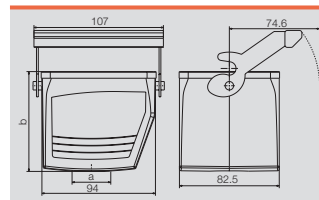
a	Version	Cover	b (mm)	Type	Order No.
M 32	w. threading		79	HDC 32B SLU 1M32G	1902670000
M 32	w. threading	with cover	96	HDC 32B SDLU 1M32G	1902650000
M 32	w. threading		79	HDC 32B SLU 2M32G	1788470000
M 32	w. threading	with cover	96	HDC 32B SDLU 2M32G	1788490000



Coupling housing



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



RockStar® Housings IP66 / NEMA Type 4X

Side locking, upper side

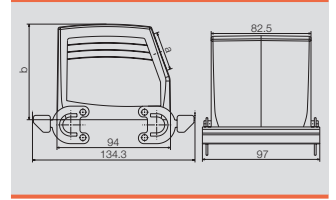
Size 10

Hood

Plug housing, cable entry at top



a	Version	Cover	b (mm)	Type	Order No.
M 32	w. threading		79	HDC 32B TSBO 1M32G	1788410000

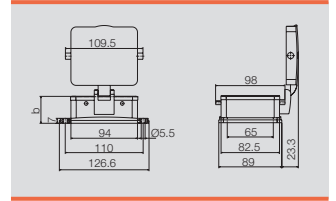


Base

Bulkhead housing



Version	Cover	b (mm)	Type	Order No.
	with cover	55	HDC 32B ADBO	1218800000



End locking, lower side

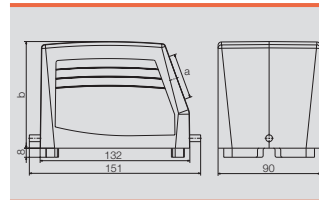
Size 12

Hood

Plug housing, cable entry sideways



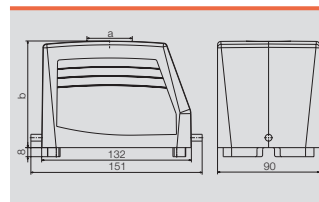
a	Version	Cover	b (mm)	Type	Order No.
M 32	w. threading		94	HDC 48B TSLU 1M32G	1788320000
M 40	w. threading		94	HDC 48B TSLU 1M40G	1788310000
M 50	w. threading		94	HDC 48B TSLU 1M50G	1788300000
PG 29	w. threading		94	HDC 48B TSLU 1PG29G	1650850000
PG 36	w. threading		94	HDC 48B TSLU 1PG36G	1650860000
PG 42	w. threading		94	HDC 48B TSLU 1PG42G	1670470000



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 40	w. threading		94	HDC 48B TOLU 1M40G	1788340000
M 50	w. threading		94	HDC 48B TOLU 1M50G	1788330000
PG 29	w. threading		94	HDC 48B TOLU 1PG29G	1650980000
PG 36	w. threading		94	HDC 48B TOLU 1PG36G	1651000000

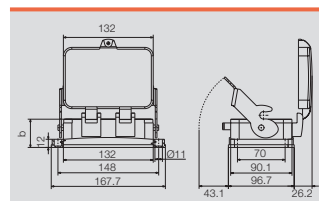


Base

Bulkhead housing



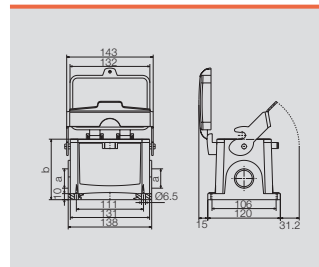
Version	Cover	b (mm)	Type	Order No.
	with cover	62	HDC 48B ADLU	1222900000



Base housing



a	Version	Cover	b (mm)	Type	Order No.
M 32	w. threading		100	HDC 48B SLU 1M32G	1904190000
M 32	w. threading	with cover	120	HDC 48B SDLU 1M32G	1904150000
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
M 40	w. threading	with cover	120	HDC 48B SDLU 2M40G	1983500000
M 50	w. threading		120	HDC 48B SLU 2M50G	1983510000
PG 29	w. threading		100	HDC 48B SLU 1PG29G	1651100000
PG 29	w. threading	with cover	120	HDC 48B SDLU 1PG29G	1799810000
PG 29	w. threading	with cover	120	HDC 48B SDLU 2PG29G	1667560000



RockStar® Housings IP68

RockStar® Housings IP68	Introduction	F.2
	RockStar® Housings IP68	F.4
	Size 1 - 8	

RockStar® Housings IP68

The new 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

Screw connection

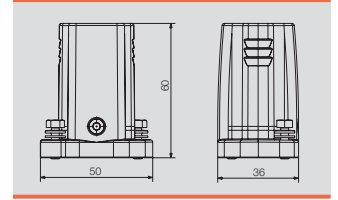
Size 1

Hood

Plug housing, cable entry at top



a	Version	b (mm)	Type	Order No.
M 20	w. threading	60	HDC IP68 04A TOS 1M20	1082390000
PG 13.5	w. threading	60	HDC IP68 04A TOS 1PG13	1082410000



Screw connection

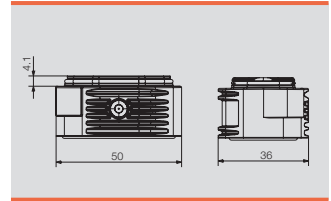
Size 1

Base

Bulkhead housing



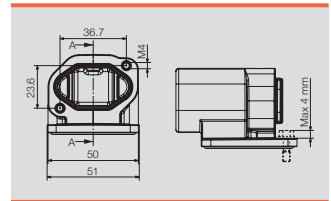
a	Version	b (mm)	Type	Order No.
		24.4	HDC IP68 04A AS	1081470000



Angled bulkhead housing



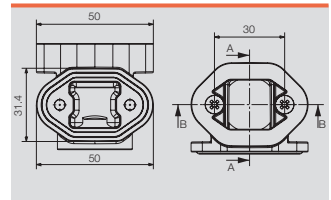
a	Version	b (mm)	Type	Order No.
M 20	w. threading	43.7	HDC IP68 04A AWS 1M20	1081480000
		43.7	HDC IP68 04A AWS	1081490000



Adapter



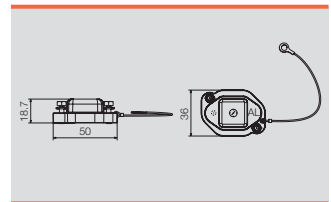
a	Version	b (mm)	Type	Order No.
		38.6	HDC IP68 04A ADS	1083130000
PG 13.5	w. threading	38.6	HDC IP68 04A ADS 1PG13	1083120000



Cover



Version	b (mm)	Type	Order No.
	18.7	HDC IP68 04A COVER	1083110000



RockStar® Housings IP68

Screw connection

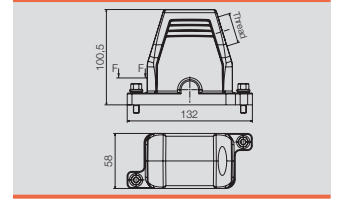
Size 3

Hood

Plug housing, cable entry sideways



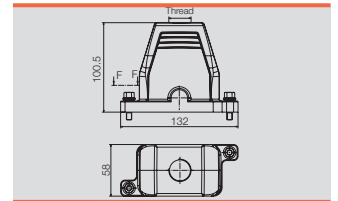
a	Version	b (mm)	Type	Order No.
M 20	w. threading	100.5	HDC IP68 06B TSS 1M20	1082510000
M 25	w. threading	100.5	HDC IP68 06B TSS 1M25	1082530000
M 32	w. threading	100.5	HDC IP68 06B TSS 1M32	1082550000
PG 16	w. threading	100.5	HDC IP68 06B TSS 1PG16	1082560000
PG 21	w. threading	100.5	HDC IP68 06B TSS 1PG21	1082570000



Plug housing, cable entry at top



a	Version	b (mm)	Type	Order No.
M 20	w. threading	100.5	HDC IP68 06B TOS 1M20	1082420000
M 25	w. threading	100.5	HDC IP68 06B TOS 1M25	1082430000
M 32	w. threading	100.5	HDC IP68 06B TOS 1M32	1082440000
M 40	w. threading	100.5	HDC IP68 06B TOS 1M40	1082450000
PG 16	w. threading	100.5	HDC IP68 06B TOS 1PG16	1082460000
PG 21	w. threading	100.5	HDC IP68 06B TOS 1PG21	1082470000
PG 29	w. threading	100.5	HDC IP68 06B TOS 1PG29	1082480000



Screw connection

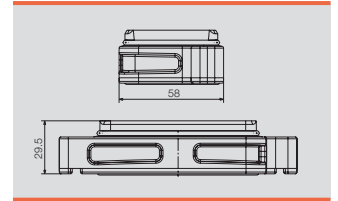
Size 3

Base

Bulkhead housing



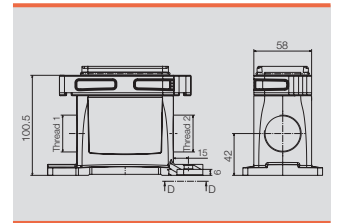
Version	b (mm)	Type	Order No.
	29.5	HDC IP68 06B AS	1081510000



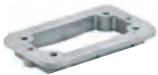
Base housing



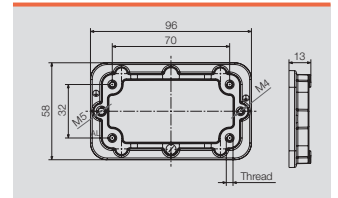
a	Version	b (mm)	Type	Order No.
M 20	w. threading	100.5	HDC IP68 06B SS 1M20	1081180000
M 20	w. threading	100.5	HDC IP68 06B SS 2M20	1081250000
M 25	w. threading	100.5	HDC IP68 06B SS 1M25	1081190000
M 25	w. threading	100.5	HDC IP68 06B SS 2M25	1081240000
M 32	w. threading	100.5	HDC IP68 06B SS 1M32	1081210000
M 32	w. threading	100.5	HDC IP68 06B SS 2M32	1081220000
PG 29	w. threading	100.5	HDC IP68 06B SS 1PG29	1081230000
PG 29	w. threading	100.5	HDC IP68 06B SS 2PG29	1081260000



Counter-frame



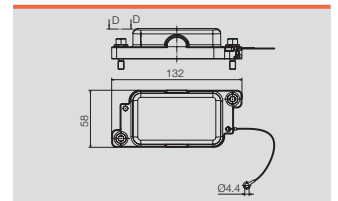
a	Version	b (mm)	Type	Order No.
		13	HDC IP65 06B FRAME M4	1081550000
		13	HDC IP68 06B FRAME M6	1110890000



Cover



Version	b (mm)	Type	Order No.
	31	HDC IP68 06B COVER	1083060000



RockStar® Housings IP68

Screw connection

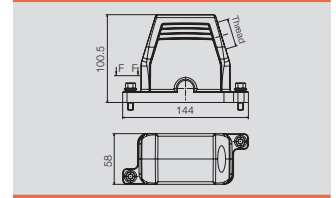
Size 4

Hood

Plug housing, cable entry sideways



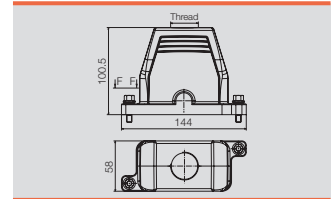
a	Version	b (mm)	Type	Order No.
M 20	w. threading	100.5	HDC IP68 10B TSS 1M20	1082690000
M 25	w. threading	100.5	HDC IP68 10B TSS 1M25	1082650000
M 32	w. threading	100.5	HDC IP68 10B TSS 1M32	1082660000
PG 21	w. threading	100.5	HDC IP68 10B TSS 1PG21	1082670000
PG 29	w. threading	100.5	HDC IP68 10B TSS 1PG29	1082680000



Plug housing, cable entry at top



a	Version	b (mm)	Type	Order No.
M 20	w. threading	100.5	HDC IP68 10B TOS 1M20	1082580000
M 25	w. threading	100.5	HDC IP68 10B TOS 1M25	1082590000
M 32	w. threading	100.5	HDC IP68 10B TOS 1M32	1082610000
PG 16	w. threading	100.5	HDC IP68 10B TOS 1PG16	1082620000
PG 21	w. threading	100.5	HDC IP68 10B TOS 1PG21	1082630000
PG 29	w. threading	100.5	HDC IP68 10B TOS 1PG29	1082640000



Screw connection

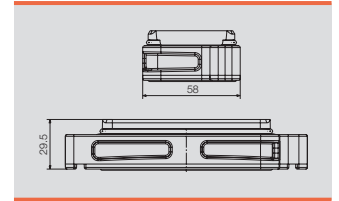
Size 4

Base

Bulkhead housing



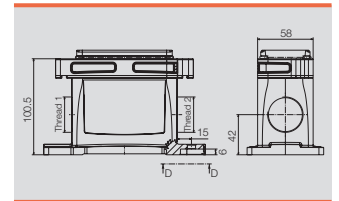
Version	b (mm)	Type	Order No.
	29.5	HDC IP68 10B AS	1081520000



Base housing



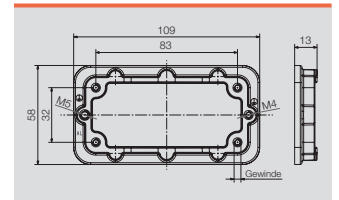
a	Version	b (mm)	Type	Order No.
M 20	w. threading	100.5	HDC IP68 10B SS 1M20	1081270000
M 20	w. threading	100.5	HDC IP68 10B SS 2M20	1081310000
M 32	w. threading	100.5	HDC IP68 10B SS 1M32	1081280000
M 32	w. threading	100.5	HDC IP68 10B SS 2M32	1081320000
PG 29	w. threading	100.5	HDC IP68 10B SS 1PG29	1081290000
PG 29	w. threading	100.5	HDC IP68 10B SS 2PG29	1081330000



Counter-frame



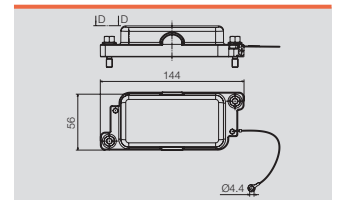
a	Version	b (mm)	Type	Order No.
		13	HDC IP65 10B FRAME M4	1081560000
		13	HDC IP68 10B FRAME M6	1110900000



Cover



Version	b (mm)	Type	Order No.
	31	HDC IP68 10B COVER	1083070000



RockStar® Housings IP68

Screw connection

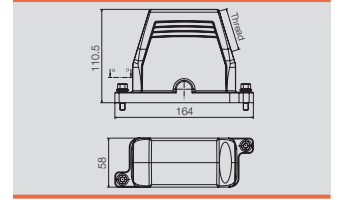
Size 6

Hood

Plug housing, cable entry sideways



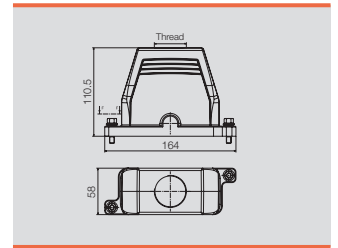
a	Version	b (mm)	Type	Order No.
M 32	w. threading	164	HDC IP68 16B TSS 1M32	1082800000
M 40	w. threading	164	HDC IP68 16B TSS 1M40	1082810000
M 50	w. threading	164	HDC IP68 16B TSS 1M50	1082820000
PG 21	w. threading	164	HDC IP68 16B TSS 1PG21	1082830000
PG 29	w. threading	164	HDC IP68 16B TSS 1PG29	1082840000
PG 36	w. threading	164	HDC IP68 16B TSS 1PG36	1082850000



Plug housing, cable entry at top



a	Version	b (mm)	Type	Order No.
M 25	w. threading	164	HDC IP68 16B TOS 1M25	1082700000
M 25	w. threading	164	HDC IP68 16B TOS 2M25	1082780000
M 32	w. threading	164	HDC IP68 16B TOS 1M32	1082710000
M 40	w. threading	164	HDC IP68 16B TOS 1M40	1082720000
M 50	w. threading	164	HDC IP68 16B TOS 1M50	1082730000
PG 21	w. threading	164	HDC IP68 16B TOS 1PG21	1082750000
PG 21	w. threading	164	HDC IP68 16B TOS 2PG21	1082740000
PG 29	w. threading	164	HDC IP68 16B TOS 1PG29	1082760000
PG 36	w. threading	164	HDC IP68 16B TOS 1PG36	1082770000



Screw connection

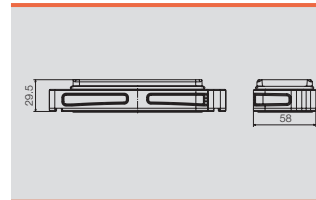
Size 6

Base

Bulkhead housing



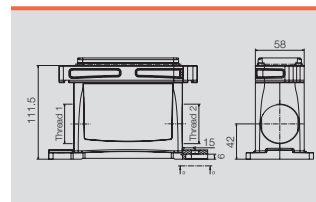
Version	b (mm)	Type	Order No.
21		HDC IP68 16B AS	1081530000



Base housing



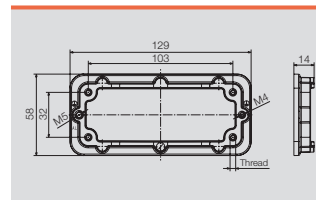
a	Version	b (mm)	Type	Order No.
		111.5	HDC IP68 16B SS	1081340000
M 32	w. threading	111.5	HDC IP68 16B SS 1M32	1081350000
M 32	w. threading	111.5	HDC IP68 16B SS 2M32	1081390000
M 40	w. threading	111.5	HDC IP68 16B SS 1M40	1081360000
M 40	w. threading	111.5	HDC IP68 16B SS 2M40	1081370000
PG 36	w. threading	111.5	HDC IP68 16B SS 1PG36	1081380000



Counter-frame



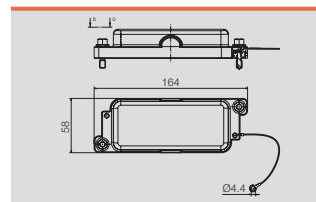
a	Version	b (mm)	Type	Order No.
		14	HDC IP65 16B FRAME M4	1081570000
		14	HDC IP68 16B FRAME M6	1110910000



Cover



Version	b (mm)	Type	Order No.
31		HDC IP68 16B COVER	1083080000



F

RockStar® Housings IP68

Screw connection

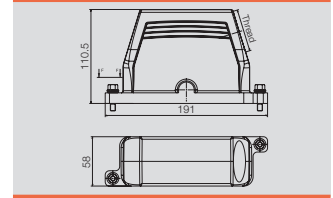
Size 8

Hood

Plug housing, cable entry sideways



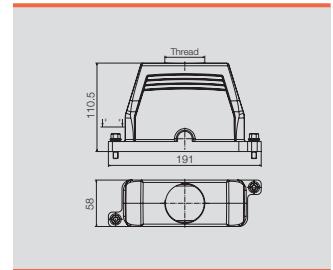
a	Version	b (mm)	Type	Order No.
M 32	w. threading	110.5	HDC IP68 24B TSS 1M32	1082970000
M 40	w. threading	110.5	HDC IP68 24B TSS 1M40	1082980000
M 50	w. threading	110.5	HDC IP68 24B TSS 1M50	1082990000
PG 29	w. threading	110.5	HDC IP68 24B TSS 1PG29	1083000000
PG 36	w. threading	110.5	HDC IP68 24B TSS 1PG36	1083010000



Plug housing, cable entry at top



a	Version	b (mm)	Type	Order No.
M 25	w. threading	110.5	HDC IP68 24B TOS 3M25	1082960000
M 32	w. threading	110.5	HDC IP68 24B TOS 1M32	1082860000
M 32	w. threading	110.5	HDC IP68 24B TOS 2M32	1082940000
M 40	w. threading	110.5	HDC IP68 24B TOS 1M40	1082870000
M 40	w. threading	110.5	HDC IP68 24B TOS 2M40	1082950000
M 50	w. threading	110.5	HDC IP68 24B TOS 1M50	1082880000
PG 21	w. threading	110.5	HDC IP68 24B TOS 1PG21	1082900000
PG 29	w. threading	110.5	HDC IP68 24B TOS 1PG29	1082920000
PG 29	w. threading	110.5	HDC IP68 24B TOS 2PG29	1082910000
PG 36	w. threading	110.5	HDC IP68 24B TOS 1PG36	1082930000



Screw connection

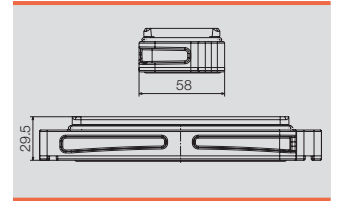
Size 8

Base

Bulkhead housing



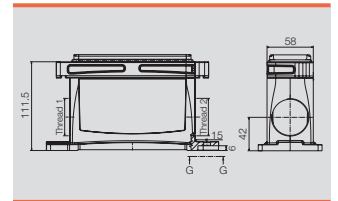
Version	b (mm)	Type	Order No.
	29.5	HDC IP68 24B AS	1081540000



Base housing



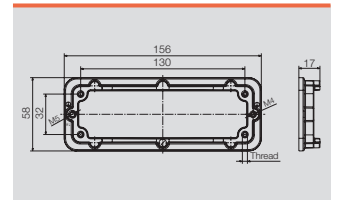
a	Version	b (mm)	Type	Order No.
		111.5	HDC IP68 24B SS	1081450000
M 40	w. threading	111.5	HDC IP68 24B SS 1M40	1081410000
M 40	w. threading	111.5	HDC IP68 24B SS 2M40	1081420000
PG 36	w. threading	111.5	HDC IP68 24B SS 1PG36	1081430000
PG 36	w. threading	111.5	HDC IP68 24B SS 2PG36	1081440000



Counter-frame



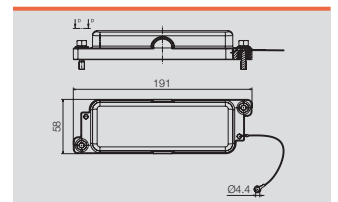
a	Version	b (mm)	Type	Order No.
		17	HDC IP65 24B FRAME M4	1081580000
		17	HDC IP68 24B FRAME M6	1110920000



Cover



Version	b (mm)	Type	Order No.
	31	HDC IP68 24B COVER	1083090000



RockStar® Housings IP68

Screw connection

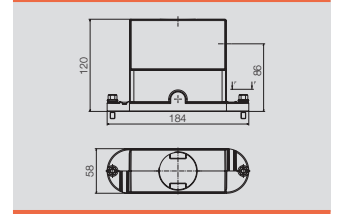
Size 8, XXL

Hood

Plug housing, cable entry sideways



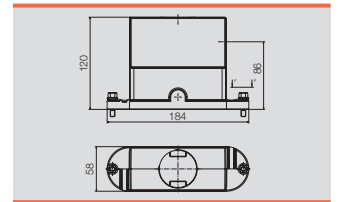
a	Version	b (mm)	Type	Order No.
M 40	w. threading	120	HDC HB 24 TEK TSS1xM40G	1000920001
M 50	w. threading	120	HDC HB 24 TEK TSS1xM50G	1827160000



Plug housing, cable entry at top



a	Version	b (mm)	Type	Order No.
M 40	w. threading	120	HDC HB 24 TEK TOS2XM40G	1020520000
M 50	w. threading	120	HDC HB 24 TEK TOS1xM50G	1827170000

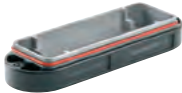


Screw connection

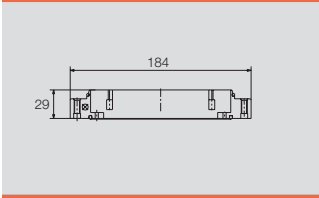
Size 8, XXL

Base

Bulkhead housing



Version	b (mm)	Type	Order No.
29		HDC HB 24 TEK AS M4	1827470000



RockStar® Heat Trace Connector

RockStar® Heat Trace Connector	Introduction	G.2
	RockStar® Heat Trace Connector	G.4
	600 V	
	35 A	
	2 poles	

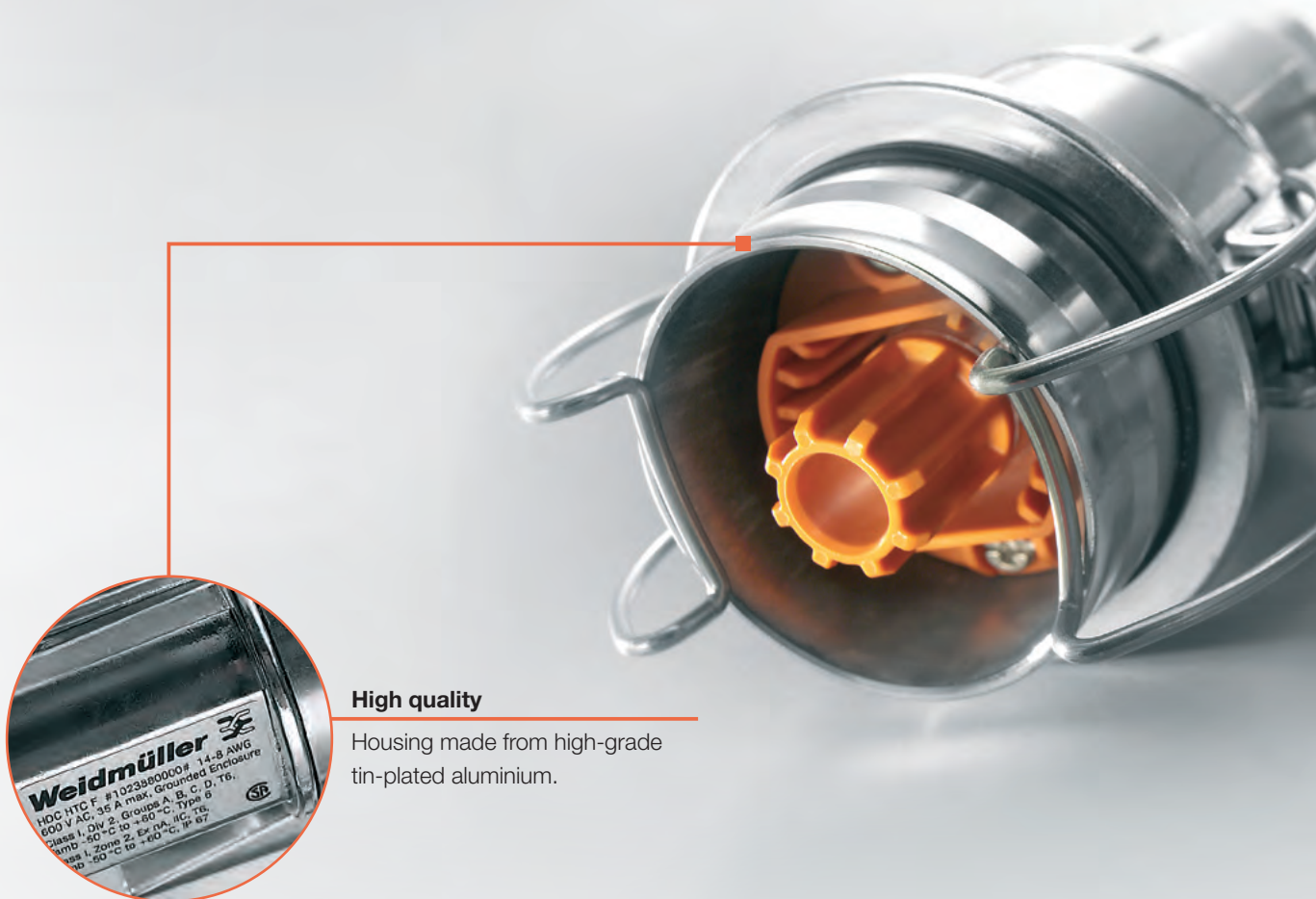
Introduction

RockStar® Heat Trace Connector

The temperature in an oil pipeline system must not fall below a specific limit, even when operating in harsh Arctic conditions, in order to ensure the smooth flow of oil. Pipelines are therefore equipped with heaters which must be connected to each other in a simple, safe and durable manner. Weidmüller has designed a connector with a CSA-approved temperature range from -50 °C to +60 °C. The coaxial design makes it easy to connect the connector elements in any position (360°). The inserts can be wired using the reliable screw connection. A snap closure secures the connection. It can also be easily released using a screwdriver. This provides long-term protection against an accidental opening.

The benefits for you:

- Two-piece construction helps save you time and money during installation
- Coaxial design for maximum 360° pluggability: can be plugged in without a complex alignment process or rotation
- Caps provide IP67 protection even when unplugged



High quality

Housing made from high-grade tin-plated aluminium.



Sturdy

Sturdy spiral spring contacts ensure a long-term, reliable electrical connection.



Colour coded

Simplified assignment using colour-coded inserts and caps.

Heat Trace Connector – Male and female

Heat Trace Connector

Male and female

Technical data

Contact inserts

Rated electrical data	
Contacts	2-pole (L1, L2) + PE (earth/ground)
Rating data	35 amps, 600 V AC, 50 Hz / 60 Hz
Conductor	
Harmonised	2.5 mm ² – 10 mm ²
AWG	8 – 14 AWG
Materials, components	
Body	tin-plated aluminium
Contacts	silver-plated brass
Inserts	Polyamide (UL94-V0)
Cover	Polyamide (UL94-V0)
Sealing	FVMQ
Thread shape, cable gland	3/4" NPT-F (internal thread)
Environmental conditions	
Housing classification	Type 6, IP67
Approvals	
CSA	Class 1, Division 2 , Groups A, B, C, D, T6, Tamb –50 °C to +60 °C, Type 6
	Class 1, Zone 2 ; Ex nA, IIC, T6, Tamb –50 °C to +60 °C, IP67
GOSTEx	

Heat Trace Connector

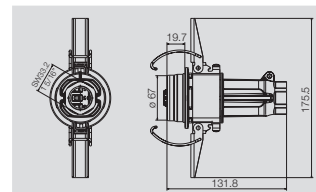
Female



Designation	Type	Order No.
HDC HTC F	3/4" NPT female	1023880000

Caution: special closing mechanism contingent on approval. (screwdriver required)

Note: included with delivery:
socket housing, socket insert and protective cap with safety cord

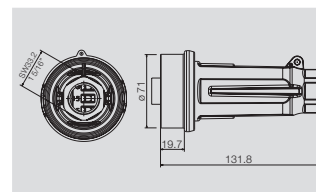


Male



Designation	Type	Order No.
HDC HTC M	3/4" NPT male	1023890000

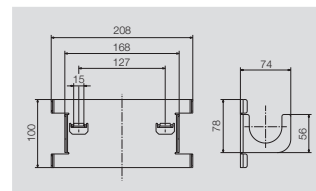
Note: included with delivery:
socket housing, socket insert and protective cap with safety cord



Mounting frame



Designation	Type	Order No.
HDC HTC MOUNTING	Mounting frame	1049370000

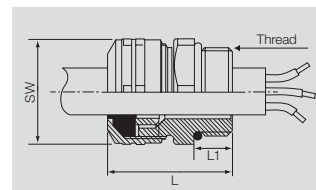


Cable gland



Designation	Type	Order No.
VG NPT 3/4" Ex-e MS	Ex cable gland	1778150000

Note: Additional Ex fittings and Ex adapters for the Heat Trace connector can be found in Section L



Accessories

Designation	Type	Order No.
SD 0.8x4.0x100	Slotted screwdriver	9008340000

RockStar® Data Connectors

RockStar® Data Connectors	Introduction	H.2
	RockStar® CSB Size 1	H.4
	Coax	
	2 - 16 poles	
	IE-LINE Variant 5	H.10
	RJ45/USB	
	4 - 8 poles	

Introduction

RockStar® Data Connectors

Weidmüller's expertise and experience with the proven modular-based ConCept System bus has been applied to the design of the RockStar® CSB size 1 – the smallest HDC housing size available. This new connector can be combined with all contact carriers from the ConCept System bus module – optionally assembled with HD, HE or Sub-D contacts. RockStar® CSB size 1 can be easily built into an HDC IP66/IP68 housing and can be used to connect coaxial cables in railway applications.

In size 1, Weidmüller also offers IP67 Ethernet connectors that comply with requirements for up to 10 GBit Ethernet. They are also standardised for IEC 61076-3-106 and IEC 61076-3-117 (variant 5 for Ethernet IP). Variant 5 in the IE LINE can be assembled very quickly on-site. The RJ45 data inserts data, featuring STEADYTEC® technology*, are extremely reliable and easy to use. A USB coupling is also available for the female side which can be used with the IE LINE connector as a service interface.

*STEADYTEC® is a brand of technology from Weidmüller, BTR NETCOM and Telegärtner.

H



Compact

For use in compact HDC housings with IP66 or HDC-IP68/69K.





Secure

Signal and data transmission with resistance against shock and vibration

Fast



RJ45 data inserts for assembling in the field, according to Cat.6_A 10 GBit system Class EA.

RockStar® CSB Size 1

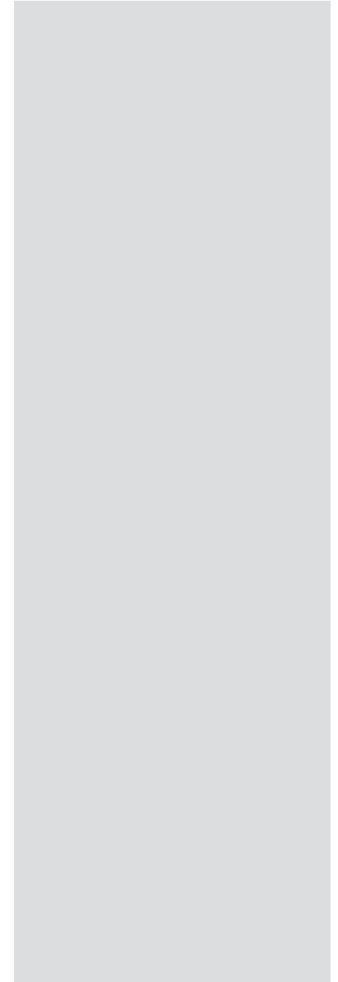
ConCept system bus

Shielded module

Technical data

Contact inserts

Standards	DIN EN 61984 IEC 60664
Number of contacts	2...16 poles for signal transmission
Conductor connection system	Crimp
Rated current	10 A (HD) / 25 A (HE)
Rated voltage/Rated impulse withstand voltage	50 V/0.8 kV (HD) / 160V/3kV (HE)
Degree of pollution	3 (100 V/1.5 kV/2 (HD) / 250 V/3 kV/2 (HE))
Shield	Shield connected to contact carrier using cable clamp
Outside diameter of shielded cable	3 to 6 mm and/or 6 to 9.5 mm
Conductor clamping ranges	0.14 mm ² ... 1.5 mm ² AWG 26 ... AWG 16
Stripping lengths	8 mm (HD/HE) / 4 mm (SUB-D)
Volume resistance	< 4 mΩ (HD) / < 2 mΩ (HE)
Contacts (crimp)	HD / HE / SUB-D
Contact material	Copper alloy
Surface	
Crimp contact	Passivated silver or gold-plated
Contact carrier	Zinc alloy
Temperature range	-40 °C ... +70 °C
Material – module	Glass-fibre reinforced PC (in UL list and approved for railway applications)
Flammability to UL 94	V-0



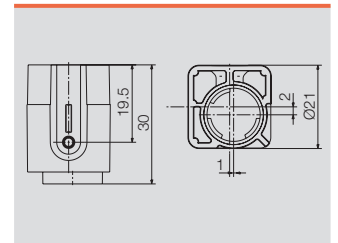
Note

Inserts

Male insert



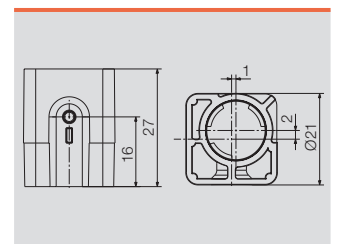
Designation	Type	Order No.
HDC 04A CSB MALE	Male insert	1137720000



Female insert



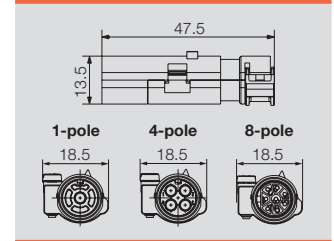
Designation	Type	Order No.
HDC 04A CSB FEMALE	Female insert	1137760000



Male contact carrier



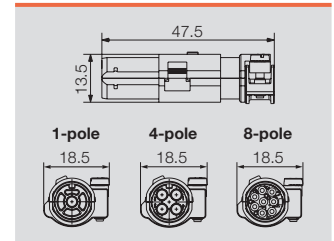
Designation	Type	Order No.
HDC CM BUS SV M1 CT	1-pole Male contact carrier HD	1983810000
HDC CM BUS SV M4 CT	4-pole Male contact carrier HD	1983790000
HDC CM BUS SV M8 CT	8-pole Male contact carrier SUB-D	1043130000
HDC CM BUS HE M1 CT	1-pole Male contact carrier HE	1116100000



Female contact carrier



Designation	Type	Order No.
HDC CM BUS SV F1 CT	1-pole Females contact carrier HD	1983800000
HDC CM BUS SV F4 CT	4-pole Females contact carrier HD	1983770000
HDC CM BUS SV F8 CT	8-pole Females contact carrier SUB-D	1043120000
HDC CM BUS HE F1 CT	1-pole Females contact carrier HE	1116090000



Accessories

HD crimp contacts

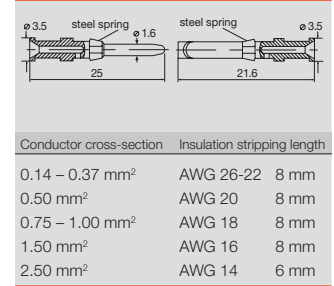
Surface Gold



Surface Silver



Male			Female		
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-SM0.75-1AU	1651640000	HDC-C-HD-BM0.75-1AU	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-BM0.75-1AG	1601760000	
100	HDC-C-HD-SM0.75-1AG	1601750000	HDC-C-HD-BM0.5AG	1651580000	
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	



Tools



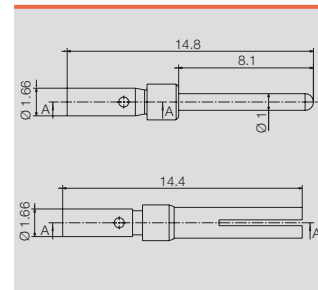
Tool	Order No.
Crimping tool CTX CM 1.6/2.5	9018490000
Contact release tool Removal Tool HD	1866730000

Accessories

SUB-D crimp contacts



Qty.	Male	Order No.	Female	Order No.
100	HDC-C-CM-BUS-S0.33-0.52	1027260000	HDC-C-CM-BUS-B0.33-0.52	1027270000



HE crimp contacts

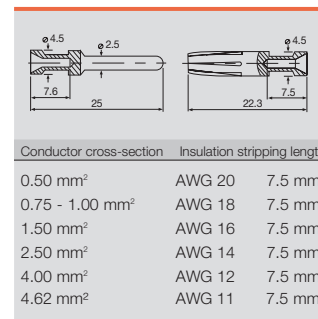
Surface Gold



Surface 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-SM0.75-1AU	1651430000	HDC-C-HE-BM0.75-1AU	1651480000	
100	HDC-C-HE-SM1.5AU	1651440000	HDC-C-HE-BM1.5AU	1651490000	
100	HDC-C-HE-SM2.5AU	1651450000	HDC-C-HE-BM2.5AU	1651500000	
100	HDC-C-HE-SM4.0AU	1651460000	HDC-C-HE-BM4.0AU	1651510000	
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-SM0.75-1AG	1200600000	HDC-C-HE-BM0.75-1AG	1201200000	
100	HDC-C-HE-SM1.5AG	1200700000	HDC-C-HE-BM1.5AG	1201300000	
100	HDC-C-HE-SM2.5AG	1200800000	HDC-C-HE-BM2.5AG	1201400000	
100	HDC-C-HE-SM4.0AG	1200900000	HDC-C-HE-BM4.0AG	1201500000	



Tools



Tool	Order No.
Crimping tool CTX CM 1.6/2.5	9018490000
Contact release tool Removal Tool HE	1866750000

Housing selection RockStar® IP66
Size 1

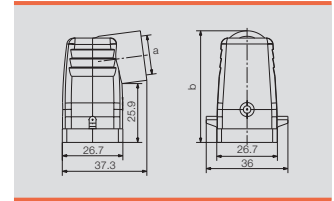
Hood

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

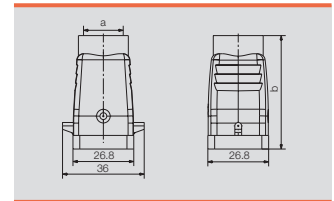


Plug housing, cable entry at top



Material: diecast aluminium

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



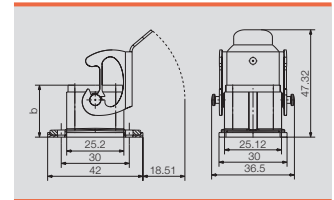
Base

Bulkhead housing



Material: diecast aluminium

Version	Cover	b (mm)	Type	Order No.
23		42	HDC 04A ALU	1497600000

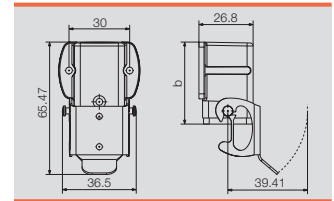


Base housing



Material: diecast aluminium

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

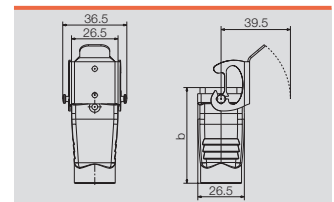


Coupling housing



Material: diecast aluminium

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

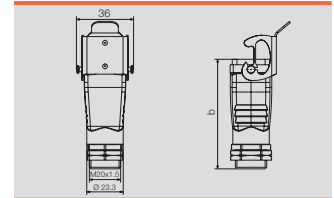


Screw mounting housing



Material: diecast aluminium

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

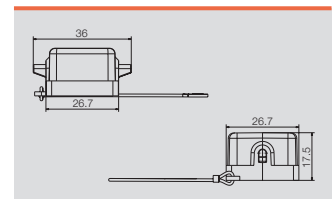


Cover



Material: diecast aluminium

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



RockStar® CSB Size 1

Screw connection

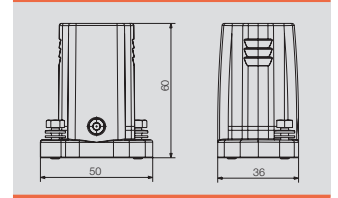
Size 1

Hood

Plug housing, cable entry at top



a	Version	b (mm)	Type	Order No.
M 20	w. threading	60	HDC IP68 04A TOS 1M20	1082390000
PG 13.5	w. threading	60	HDC IP68 04A TOS 1PG13	1082410000



Screw connection

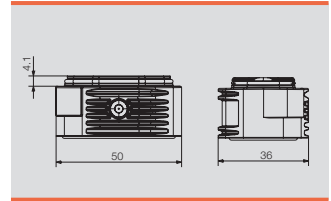
Size 1

Base

Bulkhead housing



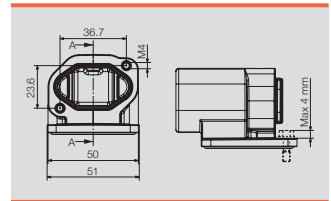
a	Version	b (mm)	Type	Order No.
		24.4	HDC IP68 04A AS	1081470000



Angled bulkhead housing



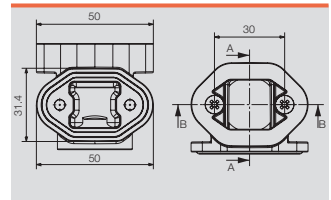
a	Version	b (mm)	Type	Order No.
M 20	w. threading	43.7	HDC IP68 04A AWS 1M20	1081480000
		43.7	HDC IP68 04A AWS	1081490000



Adapter



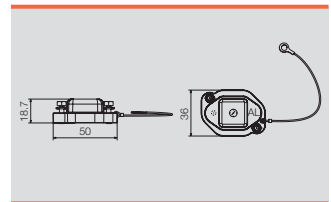
a	Version	b (mm)	Type	Order No.
		38.6	HDC IP68 04A ADS	1083130000
PG 13.5	w. threading	38.6	HDC IP68 04A ADS 1PG13	1083120000



Cover



Version	b (mm)	Type	Order No.
	18.7	HDC IP68 04A COVER	1083110000

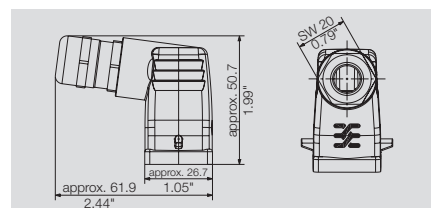
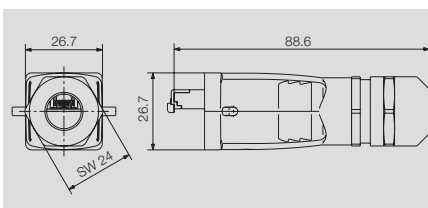


IE-LINE Variant 5

Plug RockStar® V5 - RJ45

V5 - RJ45 plug, straight

V5-RJ45 plug, angled



Technical data

Degree of protection
 Housing main material
 Sheath diameter, min. / max.
 Plugging cycles
 Ambient temperature (operational), min. / max.
 Connector standard

IP 67
 diecast aluminium
 5 mm / 12 mm
 750
 -40 °C...+70 °C
 IEC 61076-3-106 Var. 5, IEC 60603-7-51

IP 67
 diecast aluminium
 5 mm / 10 mm
 750
 -40 °C...+70 °C
 IEC 61076-3-106 Var. 5, IEC 60603-7-51

Note

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

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

Note

Ordering data - Empty housings

Type	Qty.	Order No.
IE-PH-V05M	10	1962540000

Type	Qty.	Order No.
------	------	-----------

Note

Accessories

Dust protection cap
 Plug housing protective cap

Type	Qty.	Order No.
IE-PP-V05M	10	1968920000

Type	Qty.	Order No.
IE-PP-V05M	10	1968920000

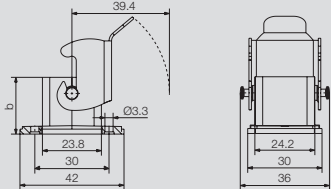
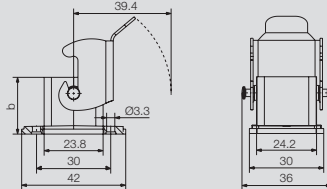
Plug inserts can also be ordered separately. Refer to Inserts.

Plug inserts can also be ordered separately. Refer to Inserts.

Flange RockStar® V5 - RJ45

Module

Coupling



Technical data

Degree of protection
 Housing main material
 Plugging cycles
 Ambient temperature (operational), min. / max.
 Connector standard
 Wire cross-section, flexible, min. / max.
 Wire cross-section, flexible, min. / max.
 Wire cross-section, solid, min. / max.
 Wire cross-section, solid, min. / max.

IP 67
 diecast aluminium
 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

IP 67
 diecast aluminium
 750
 -40 °C...+70 °C
 IEC 61076-3-106 Var. 5, IEC 60603-7-51

Note

Ordering data - Sets

PROFINET module
 TIA-A modul
 Coupling

Type	Qty.	Order No.
IE-BS-V05M-RJ45-FJ-P	10	1963700000
IE-BS-V05M-RJ45-FJ-A	10	1963460000

Type	Qty.	Order No.
IE-BS-V05M-RJ45-C	10	1963510000

Note

Ordering data - Empty housings

Type	Qty.	Order No.
IE-BH-V05M	10	1963530000

Type	Qty.	Order No.
IE-BH-V05M	10	1963530000

Note

Accessories

Dust protection cap

Flange-mounted housing, protective cap

Type	Qty.	Order No.
IE-BP-V05M	10	1968930000

Type	Qty.	Order No.
IE-BP-V05M	10	1968930000

Plug inserts can also be ordered separately. Refer to Inserts.

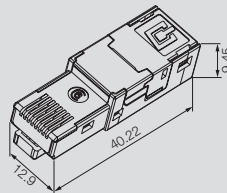
Plug inserts can also be ordered separately. Refer to Inserts.

IE-LINE Variant 5

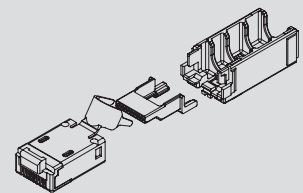
Plug inserts RJ45

- Cat.6_A
- IP 20
- For Variant 1, 4, 5 and 14 housings

Tool-free



Crimp



Technical data

Category
Degree of protection
Plugging cycles
Shielding
Housing main material
Contact material / Contact surface
Wire cross-section, flexible, min. / max.
Wire cross-section, flexible, min. / max.
Wire cross-section, solid, min. / max.
Wire cross-section, solid, min. / max.
Insulation cross-section, max.
Humidity
Ambient temperature (operational), min. / max.
Insulation resistance
Dielectric strength, contact / contact
Dielectric strength, contact / shield
Current-carrying capacity at 50 °C
PoE+
Speed
Connector standard
Note

Cat.6 _A / Class E _A (ISO/IEC 11801 2010)
IP 67 with housing
750
360° all-round enclosure
Zinc diecast
AWG 26 / AWG 22
0.48 mm / 0.76 mm
AWG 24 / AWG 24
0.4 mm / 0.64 mm
1.6 mm
-40 °C...+70 °C
500 MΩ
≥ 1000 V DC
≥ 1500 V DC
1 A
10 GBit
IEC 60603-7-51

Cat.6 _A / Class E _A (ISO/IEC 11801 2010)
IP 67 with housing
750
360° all-round enclosure
Brass, PC UL 94 V0
Phosphor bronze / AU ≥ 0.8 μm, Ni 2.54 μm
AWG 27 / AWG 24
0.46 mm / 0.61 mm
AWG 24 / AWG 24
0.4 mm / 0.51 mm
1.05 mm
0...93 % rel. humidity
-40 °C...+70 °C
500 MΩ
≥ 1000 V DC
≥ 1500 V DC
1 A
conforming to IEEE 802.3af
10 GBit
IEC 60603-7-51

Ordering data

tool-free
TIA-A/B/PROFINET
TIA-A
TIA-B
PROFINET
Crimp
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
IE-PI-RJ45-FH-P	10	1132030000

Type	Qty.	Order No.
IE-PI-RJ45-TH	10	1962720000

Accessories

Tools
Crimping tool
Optional pressing tool

Type	Qty.	Order No.
PWZ RJ45	1	1118040000

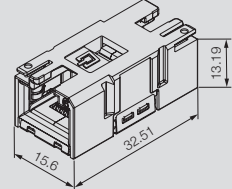
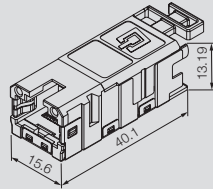
Type	Qty.	Order No.
TT 8 RS MP 8	1	9202800000

Flange inserts RJ45

- Cat.6_A
- IP 20
- For Variant 1, 4, 5 and 14 housings

Module

Coupling



Technical data

Category
Degree of protection
Plugging cycles
Shielding
Housing main material
Wire cross-section, flexible, min. / max.
Wire cross-section, solid, min. / max.
Insulation cross-section, max.
Connector standard
Ambient temperature (operational), min. / max.
Note

Cat.6 _A / Class E _A (ISO/IEC 11801 2010)
IP 67 with housing
750
360° all-round enclosure
Zinc diecast
AWG 26 / AWG 22
AWG 24 / AWG 24
1.6 mm
IEC 60603-7-51
-40 °C...+70 °C
Note

Cat.6 _A / Class E _A (ISO/IEC 11801 2010)
IP 67 with housing
750
360° all-round enclosure
Zinc diecast
IEC 60603-7-51
-40 °C...+70 °C
Note

Ordering data

No tools needed
TIA-A
TIA-B
PROFINET
Coupling
Note

Type	Qty.	Order No.
IE-BI-RJ45-FJ-A	10	1962850000
IE-BI-RJ45-FJ-B	10	1963840000
IE-BI-RJ45-FJ-P	10	1963830000
Note		

Type	Qty.	Order No.
IE-BI-RJ45-C	10	1962840000
Note		

Accessories

Tools
Optional pressing tool

Type	Qty.	Order No.
PWZ RJ45	1	1118040000
Note		

Type	Qty.	Order No.
Note		

H

IE-LINE Variant 5

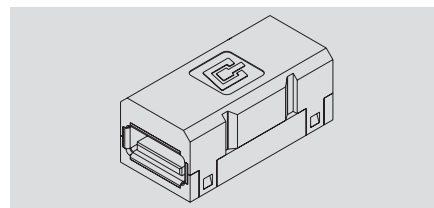
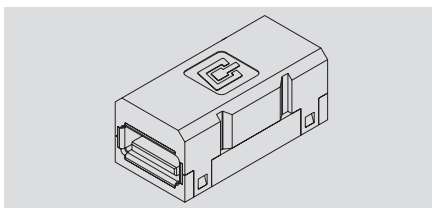
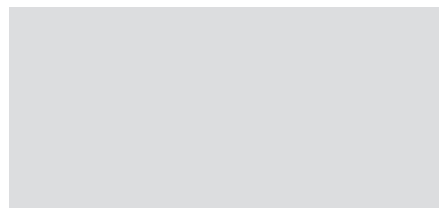
Flange inserts USB

- IP 20
- For Variant 1, 4, 5 and 14 housings

Coupling USB A/A



Coupling USB A/B



Technical data

Degree of protection
 Shielding
 Ambient temperature (operational), min. / max.
 Connection 1 / 2
 Connector standard

IP 67 with housing
 360° all-round enclosure
 -40 °C...+70 °C
 USB A / USB A
 IEC 61076-3-107

IP 67 with housing
 360° all-round enclosure
 -40 °C...+70 °C
 USB A / USB B
 IEC 61076-3-107

Note

Ordering data

USB coupling

Type	Qty.	Order No.
IE-BI-USB-A	10	1019570000

Type	Qty.	Order No.
IE-BI-USB-AB	10	1131380000

Note

Accessories

RockStar® Kits

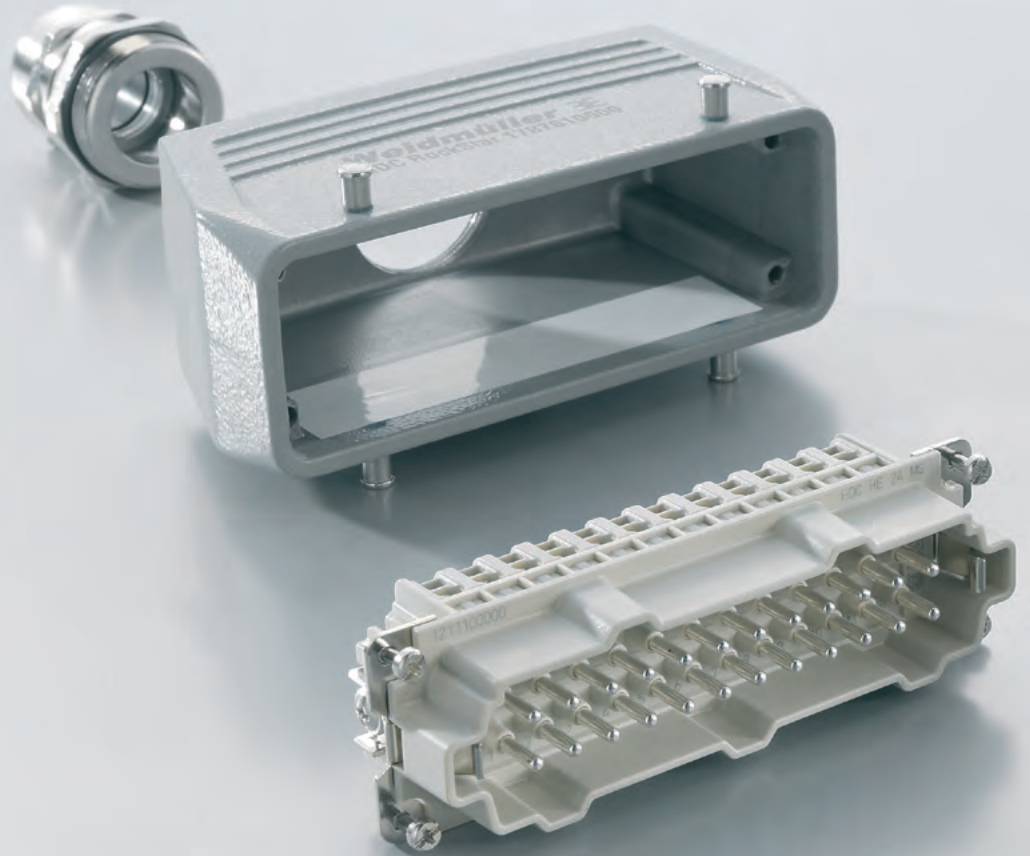
RockStar® Kits	Introduction	1.2
	RockStar® Kits with HA inserts	1.4
	250 V	
	22 A	
	3 - 4 poles	
	RockStar® Kits with HE inserts	1.8
	500 V	
	16 A	
	6 - 48 poles	
	RockStar® Kits with HSB inserts	1.28
	400 V	
	35 A	
	6 poles	

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

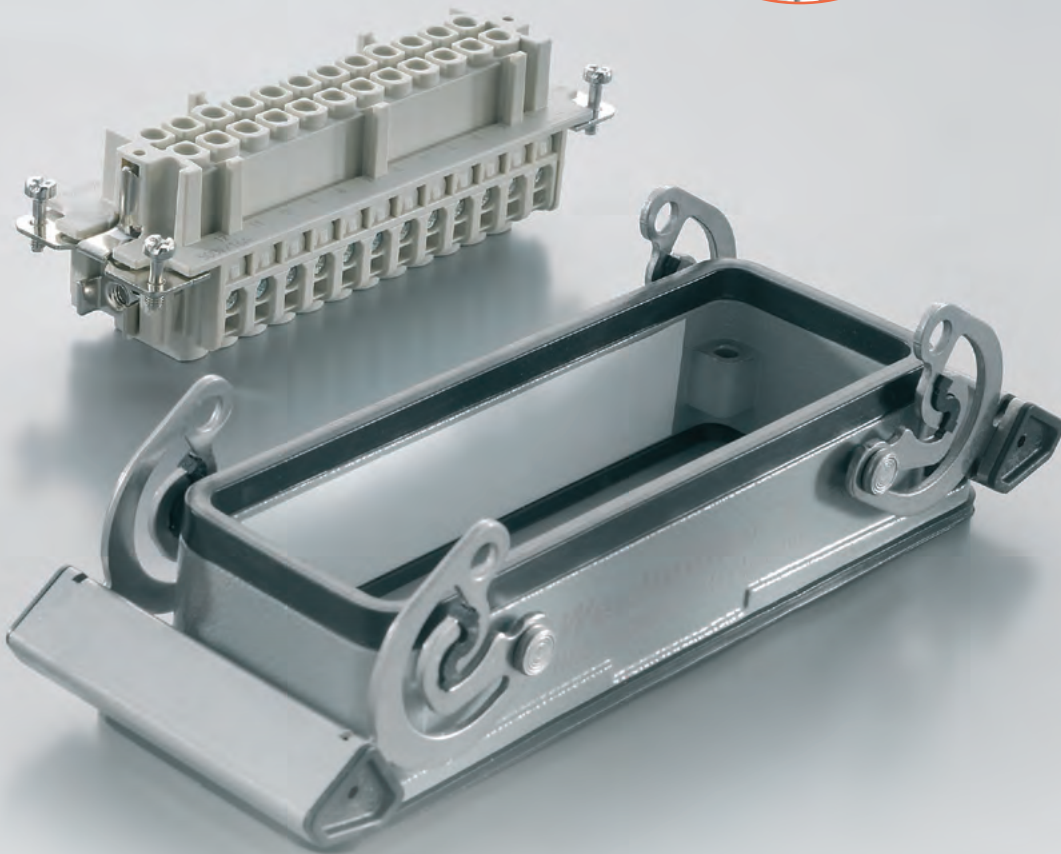
All components at a single glance – each matched to the required number of poles, size and wire connection method

**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

250 V, 22 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	1772220000

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	1772220000

Metal housing

250 V, 22 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

Kits with HA inserts, 4 pole

250 V, 22 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	1772220000

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	1772220000

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

250 V, 22 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 (16 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	J.2
	Crimp contacts	J.4
	Coding	J.12
	Shield lever	J.16
	Other accessories	J.20

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.

J

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



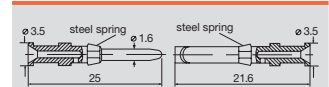
Surface Silver



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 and HEE 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	
Material	Copper alloy
Surface hard silver-plated	3 µm
Contact resistance	≤ 1 mΩ
Clamping range	1.5 ... 6 mm ²
Stripping length	16 ... 10 AWG
	8 mm

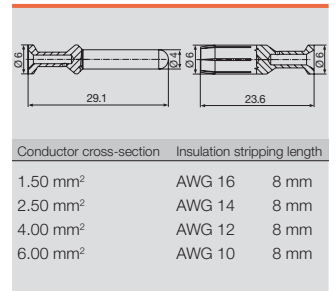
For HQ and MixMate inserts

Crimp contacts

Surface Silver



Male			Female		
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	



Tools



Crimping tool	Order No.
CTIN CM 1.6/2.5	9205430000

Contact release tool	Order No.
Removal Tool HX	1002990000

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	Order No.	Female	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

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 customize the crimp contact to fit your requirements.

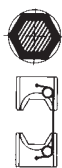
Conductor cross-section	Insulation stripping length
25 mm ²	AWG 4 23 mm
35 mm ²	AWG 2 23 mm
50 mm ²	AWG 1 23 mm
70 mm ²	AWG 00 23 mm
95 mm ²	AWG 000 23 mm

Hand crimping tools



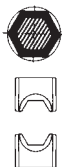
Designation	Type	Order No.
Hand crimping tool	MTR 160	9017250000
Hand crimping tool	MTR 300	9021390000

Crimping inserts MTR 160



Cross-section (mm ²)	Code to DIN 48083	Crimping width (mm)	Order No.
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

Crimping inserts MTR 300



Cross-section (mm ²)	Code to DIN 48083	Crimping width (mm)	Order No.
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

Crimp contacts for HighPower

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 mm²
	AWG 1/0 ... kcmil 500
Stripping length	30 mm*

For HighPower 550 A

Crimp contacts



Wire connection cross-section*	Male	Order No.	Female	Order No.
50 mm²	HDC HP 550 M 50	1157800000	HDC HP 550 F 50	1177100000
95 mm²	HDC HP 550 M 95	1079790000	HDC HP 550 F 95	1079810000
120 mm²	HDC HP 550 M 120	1079780000	HDC HP 550 F 120	1079820000
150 mm²	HDC HP 550 M 150	1119110000	HDC HP 550 F 150	1079830000
185 mm²	HDC HP 550 M 185	1120580000	HDC HP 550 F 185	1079840000
240 mm²	HDC HP 550 M 240	1120590000	HDC HP 550 F 240	1120600000

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.

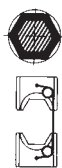
Conductor cross-section	Insulation stripping length
50 mm²	AWG 1 30 mm
95 mm²	AWG 000 30 mm
120 mm²	AWG 0000 30 mm
150 mm²	AWG 00000 30 mm
185 mm²	AWG 000000 30 mm
240 mm²	kcmil 500 30 mm

Hand crimping tools



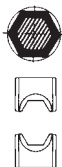
Designation	Type	Order No.
Hand crimping tool	MTR 160	9017250000
Hand crimping tool	MTR 300	9021390000

Crimping inserts MTR 160



Cross-section (mm²)	Code to DIN 48083	Crimping width (mm)	Order No.
50	14	7.0	9020940000
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

Crimping inserts MTR 300



Cross-section (mm²)	Code to DIN 48083	Crimping width (mm)	Order No.
50	14	7.0	9021470000
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

Crimp contacts

Crimp contacts for the modular ConCept system

Technical data

	CM-3	CM-5	CM-10	CM-HE	CM ST Hybrid
Material	Copper alloy	Copper alloy	v	Copper alloy	Tin-bronze
Surface hard gold-plated			0.8 µm	0.8 µm	
Surface hard silver-plated	3 µm	3 µm	3 µm	3 µm	
Contact resistance	≤ 1 mΩ	≤ 2 mΩ	≤ 4 mΩ	≤ 2 mΩ	≤ 5 mΩ
Clamping range	1.5 ... 10 mm ² 16 ... 7 AWG	0.5 ... 4.0 mm ² 20 ... 12 AWG	0.14 ... 2.5 mm ² 26 ... 14 AWG	0.5 ... 4.0 mm ² 20 ... 12 AWG	0.25 ... 0.5 mm ² AWG 24 ... 20
Stripping length	10 mm	7 mm	8 mm	7.5 mm	3 mm

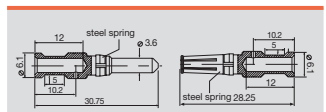
For CM-3 modules

Crimp contacts

Surface Silver



Qty.	Male	Order No.	Female	Order No.
100	HDC-C-M3-SM1.5AG	1698120000	HDC-C-M3-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



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

Tools



Crimping tool 1.5 ... 2.5 mm ²	Order No.
CTX CM 1.6 / 2.5	9018490000
CTIN CM 1.6/2.5	9205430000
Crimping tool 4 ... 10 mm ²	Order No.
CTX CM 3.6	9018480000
Crimping tool 1.5 ... 10 mm ²	Order No.
CTIN CM 3.6	9205440000
Contact release tool	Order No.
Removal Tool CM3	1866710000

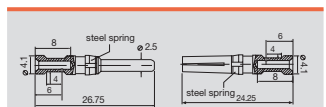
For CM-5 modules

Crimp contacts

Surface Silver



Qty.	Male	Order No.	Female	Order No.
100	HDC-C-M5-SM0.5AG	1682320000	HDC-C-M5-BM0.5AG	1682330000
100	HDC-C-M5-SM0.75-1.00AG	1682340000	HDC-C-M5-BM0.75-1.00AG	1682350000
100	HDC-C-M5-SM1.5AG	1682360000	HDC-C-M5-BM1.5AG	1682370000
100	HDC-C-M5-SM2.5AG	1682380000	HDC-C-M5-BM2.5AG	1682390000
100	HDC-C-M5-SM4.0AG	1682400000	HDC-C-M5-BM4.0AG	1682410000



Conductor cross-section	Insulation stripping length
0.5 mm ²	AWG 20 7 mm
0.75 - 1.00 mm ²	AWG 18 7 mm
1.50 mm ²	AWG 16 7 mm
2.50 mm ²	AWG 14 7 mm
4.00 mm ²	AWG 12 7 mm

Tools



Crimping tool	Order No.
CTX CM 1.6 / 2.5	9018490000
CTIN CM 1.6/2.5	9205430000
Contact release tool	Order No.
Removal Tool CM5	1866720000

For CM-10 modules and ConCept system bus, 1 and 4 poles

Crimp contacts

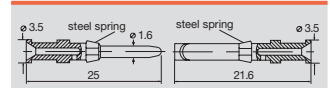
Surface Gold



Surface Silver



Qty.	Male	Order No.	Female	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 8 mm

Tools



Crimping tool	Order No.
CTX CM 1.6 / 2.5	9018490000
CTIN CM 1.6/2.5	9205430000
Contact release tool	Order No.
Removal Tool HD	1866730000

For CM-HE modules and ConCept system bus, 1-pole HE

Crimp contacts

Surface Gold



Surface Silver



Qty.	Male	Order No.	Female	Order No.
100	HDC-C-HE-SM0.5AU	1651420000	HDC-C-HE-BM0.5AU	1651470000
100	HDC-C-HE-SM0.75-1.00AU	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
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	Order No.
Removal Tool HD	1866750000

For ConCept ST modules with hybrid insert

Crimp contacts hybrid

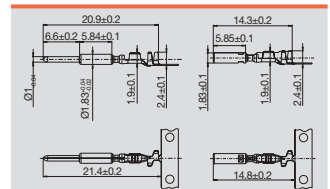
Male



Female



Qty.	Male	Order No.	Female	Order No.
300	IE-BIC-HYB-P-0.5-300	1096150000	IE-PIC-HYB-S-0.5-300	1096180000



Conductor cross-section	Insulation stripping length
0.21 – 0.50 mm ²	AWG 24-20 3.5 mm

Accessories



Crimping tool hybrid	Order No.
HTF HYB	1119580000

Crimp 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

J

HDC-C-HD ... LWL 1.0 POF

Technical data

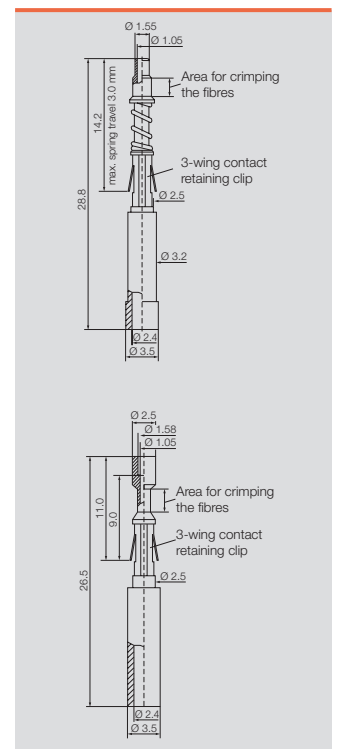
Connection for POF cable	
Maximum outer diameter	2.2 mm
Polymer fibre diameter	1.0 mm
Attenuation	
- Requirement to DIN IEC Part 7 Section 2/05.94:	< 3 dB
- the HDC-C-HD LWL contacts in plugged-in state:	< 2 dB
Material	
Temperature range	-40 °C to +85 °C
Contact material	Nickel-silver
Over-spring	Copper 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



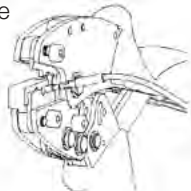
Instructions for assembling fibre optic contacts

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.

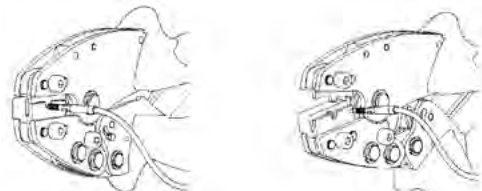
A. Male



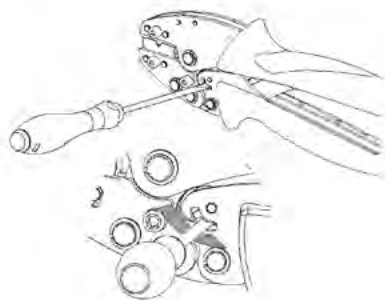
B. Female



C.



D.



Cutting tool

including positioning sleeve



Type	Qty.	Order No.
KT 8	1	9002650000

Polishing disc for fibre-optic cable

Polishing sheet, 1000 grit size

2.2 mm POF cable



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 6 connectors to code, Weidmüller coding pins are the simplest solution. They allow 6 secure coding variations.

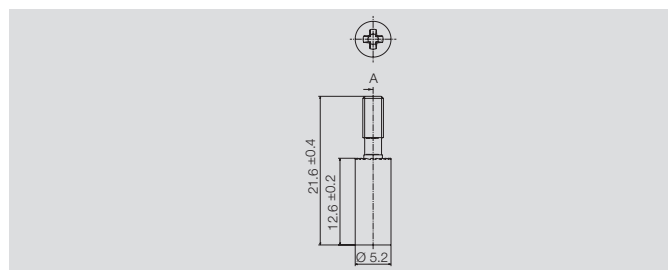
In this case, you substitute 2 M3 fastening screws on the female insert by coding pins. On the male insert, you leave the opposing fastening screws where they are and substitute the others by coding pins. You then have a pair of inserts that fit together. The coding diagram illustrates the system.

Ordering data

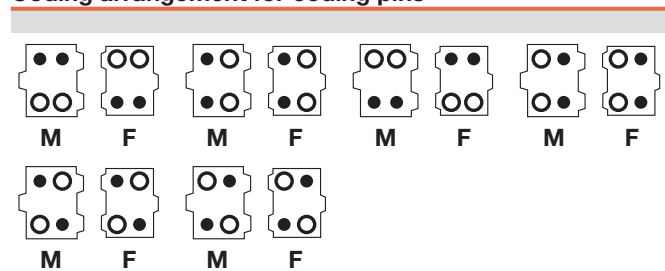
Type	Qty.	Order No.
SPB-M 3	10	1203600000



Allow 4 coding pins for each connector.



Coding arrangement for coding pins



Coding system with guiding function

If you have more than 6 connectors of similar type to code, you need coding pins and coding sockets.

Replace all M3 fastening screws of an insert by 2 coding pins and 2 coding sockets. You then fit 2 coding pins and 2 coding

sockets to the mating insert, 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

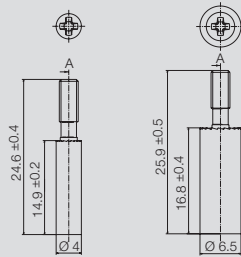
For fixed-pole inserts and ConCept plastic frames



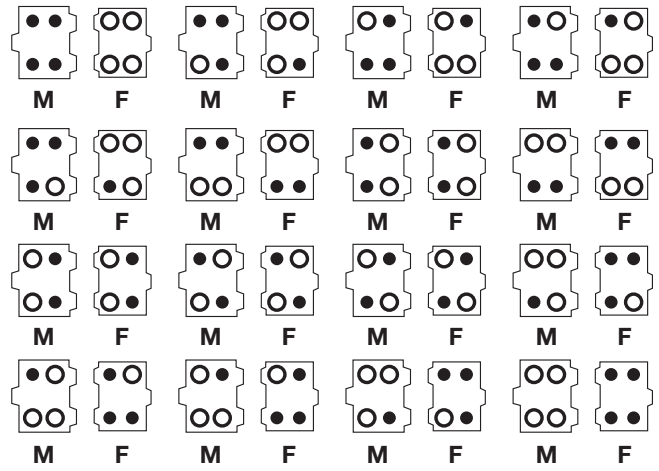
Cod. socket 5 mm dia ○
Cod. pin 4 mm dia ●

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

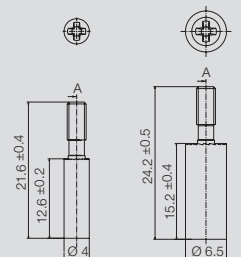
For ConCept metal frames



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

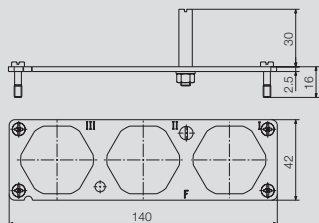
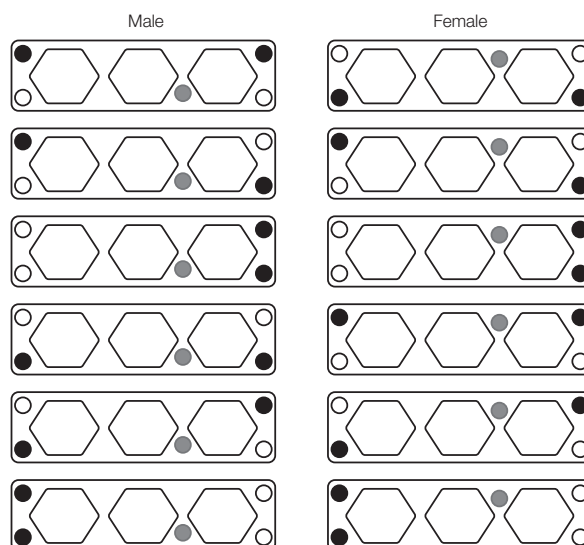
Assembly instructions for the coding system for the RockStar® HDC HighPower connectors

The coding elements (available under Accessories) can be used to code up to five connectors.

Ordering data

Mounting frame	Type	Order No.	
	HDC 06B HP250 MPL1	1103680000	
	HDC 24B HP250 MPL2 TYP1	1103690000	
	HDC 24B HP250 MPL2 TYP2	1103740000	
	HDC 24B HP250 MPL3 TYP1	1079640000	
	HDC 24B HP250 MPL3 TYP2	1103750000	
	HDC 24B HP250 MPL4PE T1	1212890000	
	HDC 24B HP250 MPL4PE T2	1212910000	
	HDC 24B HP250 MPL4 TYP1	1160430000	
	HDC 24B HP250 MPL4 TYP2	1160440000	

Coding arrangement Male/Female



HE coding pin

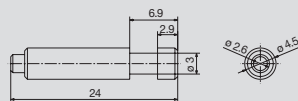
Use the HE coding pin for a quick and simple solution to avoid mixing up your plug-in connections. The coding pin can be inserted into a single contact chamber (instead of a crimp contact) on both the male and female side of the connector. The opposite mated contact then remains free. The HE coding pin 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
- HQ 5 insert
- HQ 8 insert
- S8/24 insert (power contacts)
- CM-HE module

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

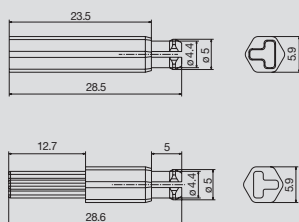
permitted by the shape of the optional coding which is aligned centrally in the connector. Refer to the coding diagram for the layout.

Ordering data

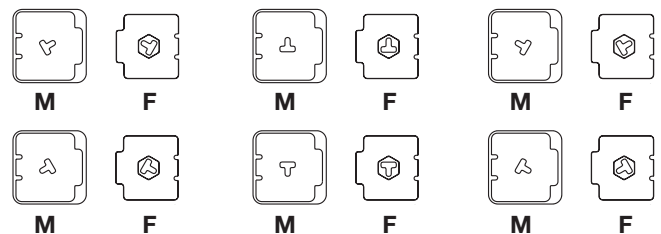
Type	Qty.	Order No.
HDC HQ 7 CPM	50	1003230000
HDC HQ 7 CPF	50	1003220000



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 J.20
Material	Steel
Surface	Galvanised
Temperature range	-40 °C ... +125 °C
Note: *Fastening points of shield clamp, 16 mm spacing	

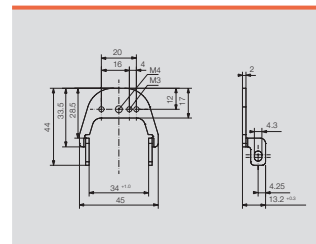
Shield lever

for standard inserts and the ConCept modular system (plastic frame)

HDC SHIELD LEVER 3 SC



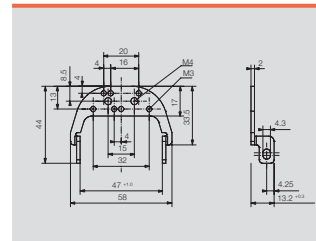
Type	Size	Qty.	Order No.
HDC SHIELD LEVER 3 SC	3	1	1867390000



HDC SHIELD LEVER 4 SC



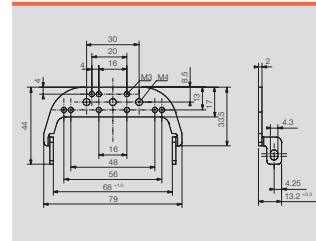
Type	Size	Qty.	Order No.
HDC SHIELD LEVER 4 SC	4	1	1867370000



HDC SHIELD LEVER 6 SC



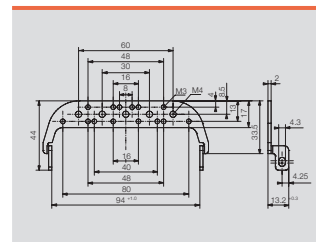
Type	Size	Qty.	Order No.
HDC SHIELD LEVER 6 SC	6	1	1867380000



HDC SHIELD LEVER 8 SC



Type	Size	Qty.	Order No.
HDC SHIELD LEVER 8 SC	8	1	1867360000



Shield lever

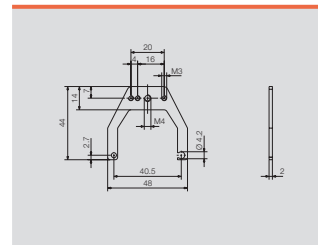
Shield lever

for the ConCept modular system (metal frame) – straight version

SHIELD LEVER 3 MOD



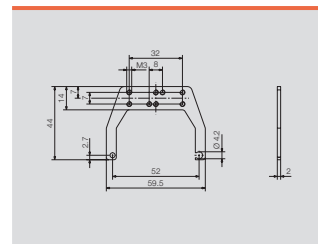
Type	Size	Qty.	Order No.
SHIELD LEVER 3 MOD	3	1	1983910000



SHIELD LEVER 4 MOD



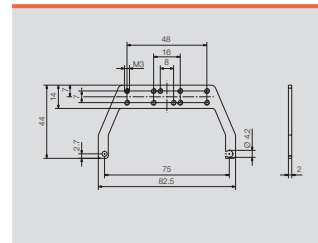
Type	Size	Qty.	Order No.
SHIELD LEVER 4 MOD	4	1	1983920000



SHIELD LEVER 6 MOD



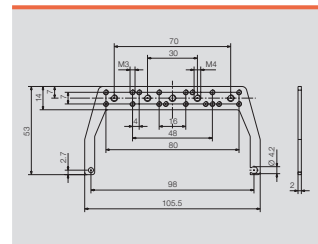
Type	Size	Qty.	Order No.
SHIELD LEVER 6 MOD	6	1	1983930000



SHIELD LEVER 8 MOD



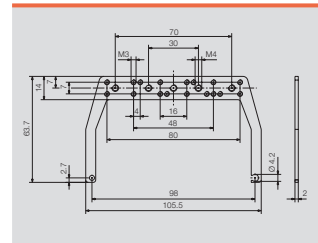
Type	Size	Qty.	Order No.
SHIELD LEVER 8 MOD	8	1	1983940000



SHIELD LEVER 8 MOD HIGH



Type	Size	Qty.	Order No.
SHIELD LEVER 8 MOD HIGH	8	1	1009310000



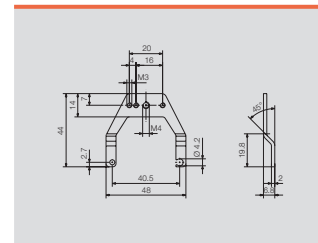
Shield lever

for the ConCept modular system (metal frame) – 45° angled version

SHIELD LEVER 3 CSB 45°



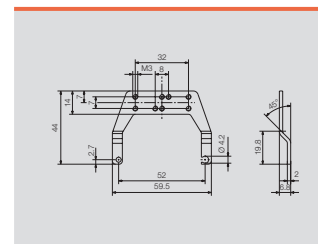
Type	Size	Qty.	Order No.
SHIELD LEVER 3 CSB 45°	3	1	1017040000



SHIELD LEVER 4 CSB 45°



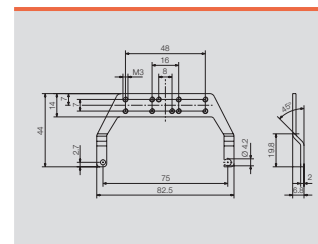
Type	Size	Qty.	Order No.
SHIELD LEVER 4 CSB 45°	4	1	1017050000



SHIELD LEVER 6 CSB 45°



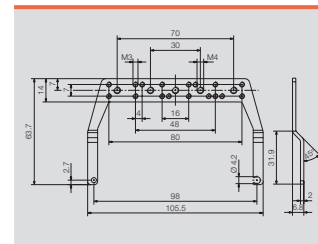
Type	Size	Qty.	Order No.
SHIELD LEVER 6 CSB 45°	6	1	1017060000



SHIELD LEVER 8 CSB 45°



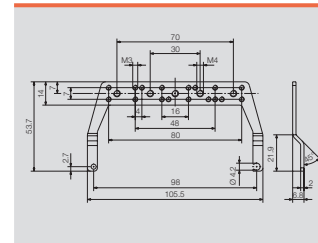
Type	Size	Qty.	Order No.
SHIELD LEVER 8 CSB 45°	8	1	1017070000



SHIELD LEVER 8 CSB 45°L



Type	Size	Qty.	Order No.
SHIELD LEVER 8 CSB 45°L	8	1	1018760000



J

Other accessories

Shield clamps for shield levers of size 3 (06B), 4 (10B), 6 (16B) and 8 (24B)

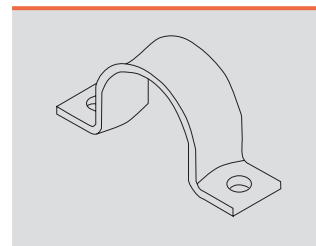
Technical data

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



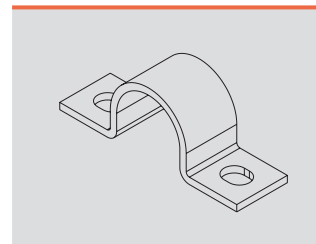
Type	Qty.	Order No.
SHIELD CLAMP 4.5 WO S	100	1018120000
SHIELD CLAMP 5 WO S	100	1018130000
SHIELD CLAMP 6 WO S	100	1018150000
SHIELD CLAMP 7 WO S	100	1018160000
SHIELD CLAMP 8 WO S	100	1018170000
SHIELD CLAMP 9 WO S	100	1018180000
SHIELD CLAMP 10 WO S	100	1018110000
SHIELD CLAMP 14 WO S	100	1041490000



Shield contact clips 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	1	1002820000



HDC GRIP PANEL 8 SC

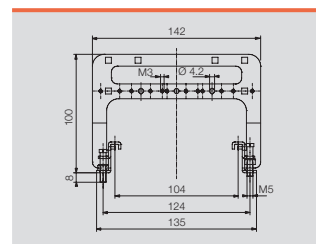
Technical data

Use	To establish direct contact to bulkhead Fastened with integrated M5 screws
Advantages	Broad contact surface gives large-area contact Low contact resistance; high torsional rigidity Shield can be connected to grip panel
Material data Grip Panel 8 SC	
Material	Steel
Surface	Galvanised
Temperature range	-40 °C to 125 °C
System data	
Size	24B or 8 KLBÜ and shield clamps can be used Cable ties can be used for fixing cable

Grip panel



Type	Qty.	Order No.
HDC GRIP PANEL 8 SC	5	1934770000



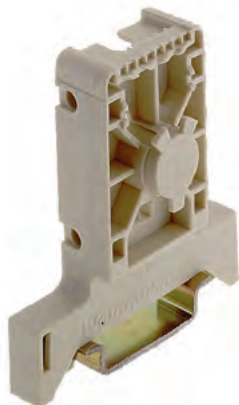
PE and mounting screws



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

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

Ordering data

Type	Qty.	Order No.
DSTV-TS 6 VH	10	1595230000
DSTV-TS 10-24 VH	10	1595240000

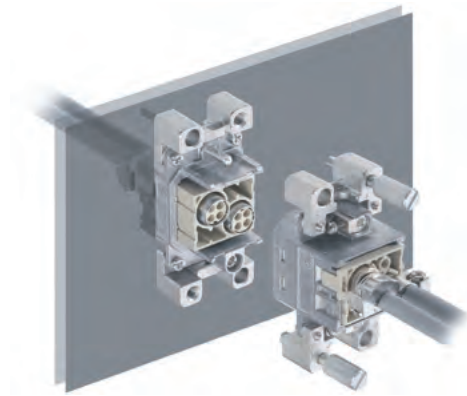
Note:
For all inserts apart from HA and all inserts of size 1

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.

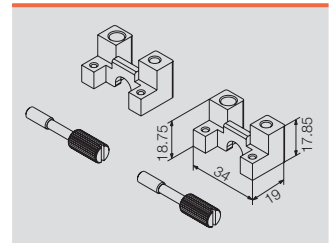


HDC ADAPTER W. SCREW



Type	Qty.	Order No.
HDC ADAPTER W. SCREW	1	1017010000

Note: Knurled screw interlock for the connector.

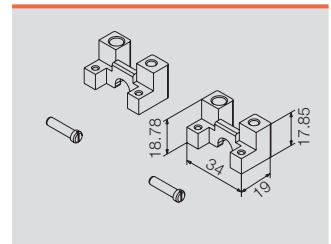


HDC SCREW ADAPTER



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.

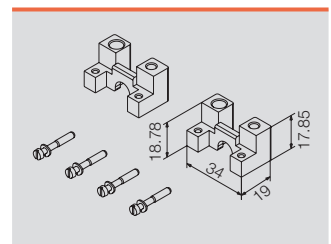


HDC SCREW ADAPTER W/O T



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 06	38 ^{+0.2} _{+0.5}	44	48 ^{+0.2} _{+0.5}	36 ^{+0.2} _{+0.5}	27	14 ^{+0.2} _{+0.5}
Size 4	HE 10	51 ^{+0.2} _{+0.5}	57	61 ^{+0.2} _{+0.5}	36 ^{+0.2} _{+0.5}	27	14 ^{+0.2} _{+0.5}
Size 6	HE 16	71.5 ^{+0.2} _{+0.5}	77.5	81.5 ^{+0.2} _{+0.5}	36 ^{+0.2} _{+0.5}	27	14 ^{+0.2} _{+0.5}
Size 8	HE 24	98 ^{+0.2} _{+0.5}	104	108 ^{+0.2} _{+0.5}	36 ^{+0.2} _{+0.5}	27	14 ^{+0.2} _{+0.5}

Other accessories

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	PA6 / 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

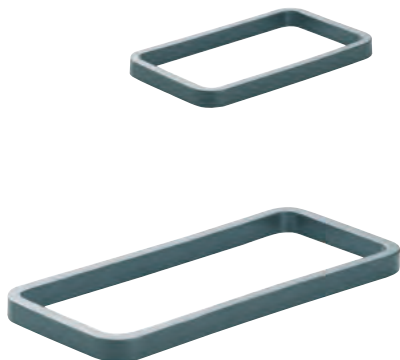
Ordering data

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



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

Other accessories

Protective transportation cap for IP66 housings

The protective transportation caps are available for sizes 3, 4, 6 and 8. They can be used with the IP65/IP66 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

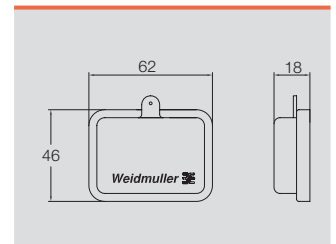
Material	Polypropylene
UL94	HB
Colour	white/transparent
Temperature range	-55 °C ... +110 °C
Class of protection	IP20

Protective transportation cap for IP66 housings

HDC 06B DC



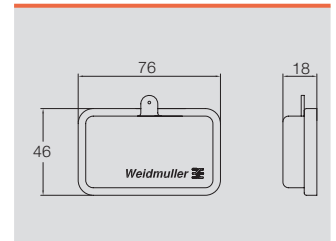
Type	Qty.	Order No.
HDC 06B DC	10	1215900000



HDC 10B DC



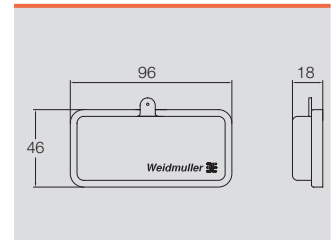
Type	Qty.	Order No.
HDC 10B DC	10	1215910000



HDC 16B DC



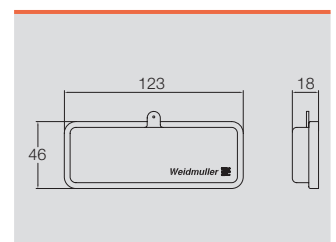
Type	Qty.	Order No.
HDC 16B DC	10	1215920000



HDC 24B DC



Type	Qty.	Order No.
HDC 24B DC	10	1215930000



Tools

Tools	Introduction	K.2
	Cutting	K.4
	Stripping	K.7
	Crimping	K.12
	Screwdrivers	K.20
	Miscellaneous	K.25

Tools

Weidmüller's professional tools are the result of an intensive development process that has been specifically focussed on the requirements of their use in practice.

The ideal tool can only be designed by a company that understands work processes and is constantly engaged on perfecting these processes. In addition to optimising the workflow, we are also concentrating on ensuring a long lifespan and improving application-based functionality for our products. Weidmüller establishes this by designing tools and products that are perfectly matched to each other.

At Weidmüller, everything fits together.

We offer many tools that help you work safely and precisely for an optimised installation of heavy-duty connectors. The new stripax®, for example, with its 70 self-adjusting blades, ensures that insulation is cut precisely, without damaging the conductor. This increases your accuracy and improves the efficiency of your manufacturing process.





Cutting



Practical tools for cutting cables up to 400 mm² comfortably and easily – with just one hand.

Crimping



Long lifespan; optimised grip delivers crimping results with high repeat accuracy.

Screwdrivers



Torque screwdrivers ensure that the housing is properly mounted without loss of the IP protection rating.

Cutting

Cutting tools







- Cutting formation for different cable sizes increases the quality of the cuts for smaller cross-sections
- Not suitable for steel wires, steel-armoured cables, aluminium alloys and hard-drawn copper conductors!
- Cutting without deformation of the conductor



KT 8

KT 12



 max. 8 mm	 max. 12 mm
 max. 16 mm ²	 max. 16 mm ²
 max. 16 mm ²	 max. 25 mm ²
 max. 16 mm ²	 max. 35 mm ²

Technical data

Max. cutting performance, copper cable	
Solid (max. conductor cross-section)	mm ² /AWG
Stranded (max. conductor cross-section)	mm ² /AWG
Flexible (max. conductor cross-section)	mm ² /AWG
Flexible, stranded (max. conductor diameter)	mm
Max. cutting performance, aluminium cable	
Stranded (max. conductor cross-section)	mm ² /-
Stranded (max. conductor diameter)	mm
solid	mm ²
Data / telephone / control cable	
Max. outer diameter	mm
Tool data	
Length / Width / Height	mm
Weight	g
Note	

Ordering data

Version
Note

KT8	KT12
16 / 6	16 / 6
16 / 6	25 / 3
16 / 6	35 / 2
8	12
16 / 6	25 / 6
8	8
16	25
8	12
165 / 65 / 25	215 / 66 / 28
180	300
Tool closed	

Type	Qty	Order No.
KT 8	1	9002650000
KT 12	1	9002660000
Note		




Cable cutter

- One-hand operation
- Easy handling
- Minimal hand force required
- Release option in every cutting position
- Not suitable for steel wires, steel-armoured cables, aluminium alloys and hard-drawn copper conductors!



KT 45 R



-  Cu + Al: max. 45 mm
-  Cu: max. 300 mm²
Al: max. 400 mm²
-  Cu: max. 400 mm²



Technical data

Max. cutting performance, copper cable	
Stranded (max. conductor cross-section)	mm ² /kcmil
Flexible (max. conductor cross-section)	mm ² /kcmil
Flexible, stranded (max. conductor diameter)	mm
Copper sector cable	
Max. cutting performance, aluminium cable	
Stranded (max. conductor cross-section)	mm ² /kcmil
Stranded (max. conductor diameter)	mm
Aluminium sector cable	
Data / telephone / control cable	
Max. outer diameter	mm
Tool data	
Length / Width / Height	mm
Weight	g
Note	

KT 45 R		
	300 / 600	
	400 / 800	
	45	
	3 x 70 SM	
	400 / 800	
	45	
	4 x 70 SE	
	45	
	290 / 85 / 40	
	740	

Ordering data

Version
Note

Type	Qty	Order No.
KT 45 R	1	9202040000
Pivoting blade KT 45 R	1	9204270000

The dimensions of the cable cutter refer to the delivery condition, i.e. the point of the hinged blade parallel to the fixed blade.

Cutting

Hydraulic hole puncher

The IP protection classes for housings, cable glands, heavy-duty connectors and Industrial Ethernet connectors can only be maintained under two conditions: the sheet metal must not be bent during the punching process and the size of the punched-out holes must correspond precisely with the specifications. The IE-KO-HAT hydraulic sheet metal hole puncher, together with its accessories, guarantees you the highest quality workmanship available. It ensures that the connector fits precisely with the punched-out holes so that you can fulfill the proper IP protection class requirements.



Automatic centre punching at the drill points when punching out holes for heavy-duty connectors.

Technical data

Maximum steel-sheet punching performance	
Square holes up to	68 x 68 mm
Rectangular holes up to	36 x 112 mm
Tool data	
Length / width / height	mm
Weight	kg
Punching force	kN
Max. operating pressure	bar
Including accessories (contents)	

Ordering data

Version
Note

Accessories



Note

IE-KO-HAT



- Pressure-relief valve protects against overload
- Cylinder head angled 90°
- Angled head, 360° turnable
- Ergonomic handle springs back by itself
- Waste pieces no longer become jammed thanks to the three-way splitting
- Hydraulic punch made from high-strength aluminium (approx. 40 % weight savings)

IE-KO-HAT
2.0 mm F = 370 N/mm ²
3.0 mm F = 370 N/mm ²
2.0 mm F = 370 N/mm ²
2.0 mm F = 370 N/mm ²
290/120/70
1.9
75
650
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

Type	Qty.	Order No.
IE-KO-HAT	1	1966810000

Type	Qty.	Order No.
Tension screw KOBBS 9,5 x 50	1	9205030000
Tension screw KOBBS 19 x 55	1	9205040000
Tension screw KOBBS 19 x 75	1	9204780000

KOK



Rectangular splitting stamp for heavy-duty connectors

Ordering data

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 112 x 36	24-pole	1	9204870000

Note: the fastening points are centre-punched.

Stripping and cutting tools

- for flexible and solid conductors with PVC insulation
- Cable with double insulation in two processing steps without special adjustment
- Automatic opening of clamping jaws after stripping
- No play in self-adjusting cutting unit
- Long-lasting
- No splicing of single conductors
- Optimised ergonomic design
- Stripping length adjustable via stop
- Adjustable for different insulation thicknesses
- switchable partial stripping function
- Removable handle shells
- Fold-out cutting protection
- Custom marking with ESG device markers

stripax®

0.08 - 10 mm²



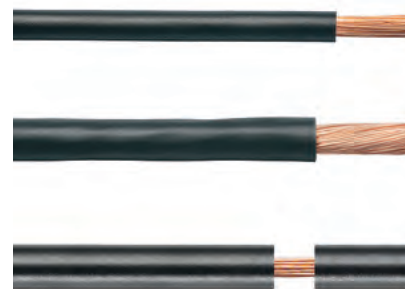
stripax® 16

6 - 16 mm²



- Stripping: PVC insulated flexible conductor, size 0.08...10 mm² (~AWG 28...7)
- Cutting: PVC insulated flexible conductor, size 0.08...6 mm² (~AWG 28...10)
- Conductors undamaged due to special self adjusting stripping blades.
- Processing of multi-conductors, with thin flat ribbon cables and even multiple conductors in one operation

- Stripping: PVC insulated flexible and solid conductors (~AWG 10...6)
- Cutting: PVC insulated flexible and solid conductors, up to 6 mm² (AWG 10)
- Conductors undamaged due to special self adjusting stripping blades.



Technical data

Max. stripping performance	
Cable type	
Conductor cross-section	mm ²
Stripping length, max.	mm
Cutting performance	
Max. cutting performance	mm ²
Tool data	
Length	mm
Weight	g
Note	

stripax®		
Flexible and solid conductors with PVC insulation		
0.08...10		
25		
6		
190		
175		
Note		

stripax® 16		
Flexible and solid conductors with PVC insulation		
6...16		
25		
6		
190		
175		
Note		

Ordering data

Version
Note

Type	Qty.	Order No.
stripax®	1	9005000000
Note		

Type	Qty.	Order No.
stripax® 16	1	9005610000
Note		

Accessories

Type	Qty.	Order No.
Spare stripping blades	1	1119030000
Note		

Type	Qty.	Order No.
Spare stripping blades	1	1119030000
Note		

Type	Qty.	Order No.
Spare stripping blades	1	1119040000
Note		

Stripping

Stripping and cutting tools multi-stripax®

- Specially shaped stripping blades enable stripping of special types of insulation and conductor configurations
- High-quality stripping for industrial applications
- Stripping results reproduced accurately time and time again
- A long-lasting, reliable tool thanks to its robust design
- Optimised ergonomic design
- No damage to the conductor or insulation
- Highly flexible thanks to interchangeable stripping units
- Adjustable stop for setting stripping lengths from 2.3 to 30 mm
- The stripping length can be increased by repeating the stripping process.
- Integral cutting function for max. 2.5 mm² solid or 6 mm² flexible cables

multi-stripax®



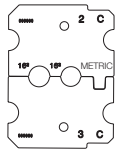
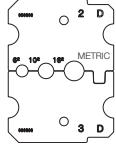
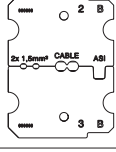
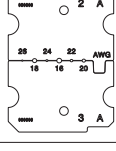
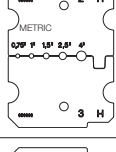
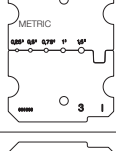
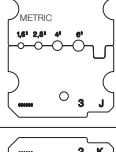
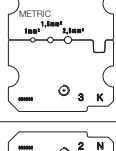
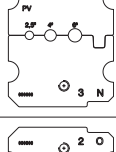
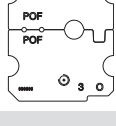
Technical data

Cable type	PVC, Teflon, PTE, PUR, silicone, halogen-free
Conductor cross-section, min.	2 mm
Conductor cross-section, max.	no limit (in several steps)
max. cutting capacity, fine-strand	6 mm ²
max. cutting capacity, solid	2.5 mm ²
max. cutting capacity, ribbon	10.2 x 4 mm
Length/Width/Height	250 / 85 / 40 mm
Weight	250 g
Information	

K



Ordering data

Type	Conductor	Insulation	Shaped blade	Code	Qty.	Order No.
multi-stripax 16 SL stripping unit multi-stripax 16 SL	16 mm ² Standard stranded	PVC		C	1 1	9202220000 9202270000
multi-stripax 6-16 stripping unit multi-stripax 6-16	6 mm ² 10 mm ² 16 mm ² solid stranded flexible	PVC		D	1 1	9202210000 9202260000
multi-stripax ASI stripping unit multi-stripax ASI	ASI cable 1.5 mm ²	PTE PUR EPDM		B	1 1	9202250000 9202300000
multi-stripax AWG stripping unit multi-stripax AWG	AWG 26 AWG 24 AWG 22 AWG 20 AWG 18 AWG 16	PTFE PVC		A	1 1	9202230000 9202280000
multi-stripax 0.75-4 ² SL stripping unit multi-spx 0.75-4 ² SL	0.75 mm ² 1 mm ² 1.5 mm ² 2.5 mm ² 4 mm ²	PVC halogen-free		H	1 1	9203610000 9203730000
multi-stripax 0.25-1.5S stripping unit M-SPX 0.25-1.5 S	0.25 mm ² 0.5 mm ² 0.75 mm ² 1 mm ² 1.5 mm ²	PVC halogen-free		I	1 1	9204540000 9204550000
multi-stripax 1.5-6.0S stripping unit M-SPX 1.5-6.0 S	1.5 mm ² 2.5 mm ² 4 mm ² 6 mm ²	PVC halogen-free		J	1 1	9204560000 9204570000
multi-stripax® GKW LW stripping unit M-SPX GKW LW	1.0 mm ² 1.5 mm ² 2.5 mm ²	Railway Radox cable GKW LW		K	1 1	9205760000 9205770000
multi-stripax® PV stripping unit M-SPX PV	2.5 mm ² 4 mm ² 6 mm ²	Photovoltaic cable and earth- and short-circuit- proof cables		N	1 1	1190490000 1204280000
multi-stripax® POF stripping unit M-SPX POF	1000 µm 980 µm POF	Duplex stripping tool for POF fibre and cable		O	1 1	1208880000 1212770000

Information

Accessories

Type	Description	Qty.	Order No.
ERME MULTI-STRIPAX	cutting blade	1	9203070000
ERAN MULTI-STRIPAX	wire stop-set	1	9203100000

Information

Sheathing stripper for coaxial cable

- For coaxial cable and round (shielded) data cables from 2.5 to 8mm diameter
- 1-, 2- and 3-level stripping in one step
- Fast changeover to other cable types thanks to adjustable interchangeable screw holder
- Colour-coded replaceable cassettes with preset stripping lengths for standard coax cable. Refer to the table.
- Setting block (included) permits quick presetting of cutting depths
- Blade cassettes can be used on both sides

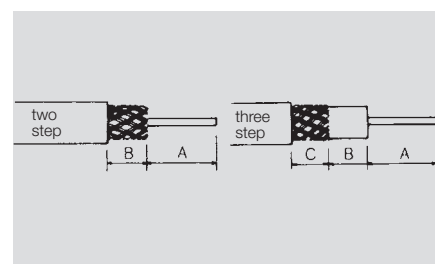
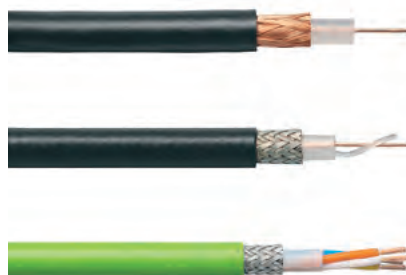
CST / IE-CST

ø 2.5...8 mm



- RG 58 and RG 71
- RG 59 and RG 62
- Antenna cable
- Profibus cable
- Ethernet cable

Cutter cassettes for CST



Technical data

Max. stripping performance	
Cable type	
Conductor diameter	mm
Stripping length, max.	-
Tool data	
Length	mm
Weight	g
Note	

CST	IE-CST
Coaxial & round data cables	Coaxial & round data cables
2.5...8	2.5...8
100	100
65	85
Note	

Colour cutter cassettes	B [mm]	C [mm]
grey	3.9	
red	6.0	
yellow	12.0	
blue	6.5	
white	8.6	
green	7.1	5.1
brown	7.5	3.5
orange	8.0	3.7
light green	6.0	6.0
black	8.6	2.3

Dim. A as stated by manufacturer (not defined by tool)

Ordering data

Version	
Note	

Type	Qty	Order No.
CST	1	9030500000
IE-CST	1	9204350000
Note		
IE-CST including blade cartridge, adjusted to Weidmüller Ethernet cable CST not including blade cartridge		

Colour cutter cassettes	Qty.	Order No.
grey	1	9032050000
red	1	9032040000
yellow	1	9032030000
blue	1	9032020000
white	1	9204340000
green	1	9032000000
brown	1	9032010000
orange	1	9032200000
light green	1	9032210000
black	1	9032220000
Note		

Accessories

Type	Qty	Order No.
Screw holder	1	9032060000
Screwdriver	1	9005720000
Setting block	1	9005800000
Note		
Dimension A: as specified by connector manufacturer (not defined by tool)		

Crimping

Crimping tool for wire end ferrules

Three functions:

- Cutting
- Stripping
- Crimping

- Wire-end ferrules with plastic collars, in compliance with DIN 46228-4
- Ratchet for precise crimping.
- Efficient operation: Change of tools not necessary, resulting in a significant time savings
- Automatic conveyance of wire-end ferrules
- Quick adjustment for differing cross-sections
- Easy handling of ferrule strips

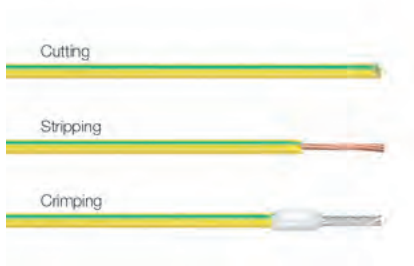
Only Weidmüller fifty-piece linked ferrule strips can be processed. The use of wire-end ferrules on reels can lead to damage.

stripax® plus 2.5

0,5...2,5 mm²



- For processing linked wire-end ferrules from Weidmüller 0.5...2.5 mm² (~AWG 20...14)



K

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)	-
Crimping range 5 (with multiple crimping positions)	-
Tool data	
Length	mm
Weight	g
Note	

STRIPAX PLUS 2.5	
Strips of linked wire-end ferrules	
Crimping range	0.5...2.5
Crimping range 1 (with multiple crimping positions)	0.5...0.75
Crimping range 2 (with multiple crimping positions)	1...1.5
Crimping range 3 (with multiple crimping positions)	2.5
Crimping range 4 (with multiple crimping positions)	-
Crimping range 5 (with multiple crimping positions)	-
Tool data	
Length	210
Weight	260
Note	
Only strip-type products from Weidmüller can be processed. The use of wire-end ferrules on reels can lead to damage.	

Ordering data

Version
Note

Type	Qty	Order No.
STRIPAX PLUS 2.5	1	9020000000
Spare cutting blade	1	9050340000

Additional accessories can be found in Chapter J.

Crimping

Crimping tools for turned contacts

- Ratchet for precise crimping.
- Release option in the event of incorrect operation
- With 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
- ConCept M10 and M5 contacts
- 0.14...4.0 mm²

CTX CM 3.6

- Turned HD contacts
- ConCept M 3 contacts
- 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
- ConCept M10, M5 and M3 contacts
- 4-indent crimp
- 0.14...6.0 mm²

CTIN CM 3.6

- Turned HX contacts
- ConCept M 3 contacts
- 4-indent crimp
- 1.5...10.0 mm²



K

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	

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
Note	

CTIN CM 1.6/2.5	CTIN CM 3.6
Turned HD, HE HX +Concept M10, M5, M3 HX turned and Concept M3 contacts	
0.14...6	1.5...10
0.14...6	1.5...10
230	230
1220	1220
Note	

Ordering data

Version	
Note	

Type	Qty	Order No.
CTX CM 1.6/2.5	1	9018490000
CTX CM 3.6	1	9018480000
Note		

Type	Qty	Order No.
CTIN CM 1.6/2.5	1	9205430000
CTIN CM 3.6	1	9205440000
Note		

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 program-ming. 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.

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 high pressing force with little physical effort
- Fast feed helps pre-centering and extraction of the connecting parts
- Ratchet for proper trouble-free crimping
- Release option in the event of incorrect operation

MTR 160 / MTR 300

10...300 mm²



- Tubular cable lugs ranging from 10...300 mm²
- Rolled CU connectors ranging from 10...150 mm²
- Retractable head for easy withdrawal of crimped connection (only MTR 300)

MTR 300

Turntable presses: 25...240 ms; 35...240 sec

Crimping inserts

Technical data

Description of contact	
Pressing force / Deviation	kN/mm
Crimping range for copper connector (rolled)	mm ²
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	

MTR 160	MTR 300
Pressing force / Deviation	100 / 16
Crimping range for copper connector (rolled)	10...150
Crimping range for copper tube connector	10...240
Crimping range for insulated connectors	10...300
Crimping range of wire end ferrule	10...120
Tool data	
Length / Weight	540 / 4
Note: sm: sector conductor stranded; se: sector single conductor	

Ordering data

Version
Note

Accessories

Carry cases
Note

Type	Qty.	Order No.
MTR 160	1	9017250000
MTR 300	1	9021390000

Type	Qty.	Order No.
MTR 300	1	9021420000
MTR 160	1	9017270000
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

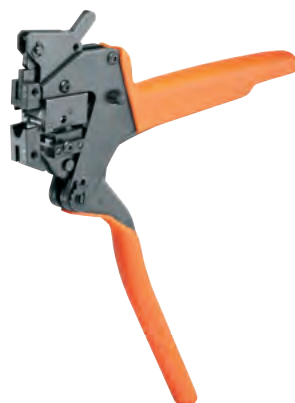
Pressing tool

- Pressing tool for modular plug connectors of the WE system (Western Electric and DEC)
- Ratchet for precise crimping.
- Release option in the event of incorrect operation

Three functions:

- Pressing of plug connectors
- Pressing of enclosure shielding
- Crimping of cable shielding

TT 8 RS MP 8



For 8-pole shielded RJ45 plug

AWG 27...24

Pressing of IDC contacts



Pressing of shielded enclosures



Crimping of shielded cable



Technical data

Description of contact	
No. of poles	
Tool data	
Length	mm
Weight	g
Note	

TT 8 RS MP 8	
8	
255	
1251	

Ordering data

Version	
Note	

Type	Qty	Order No.
TT 8 RS MP 8	1	9202800000

A large selection of RJ 45 plugs can be found in our current Industrial Ethernet Catalogue.

Crimping

Crimping tools for SC/LC 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 + 67 plugs



- 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 + 67 plugs



- For polymer fibre-optic SC/ST, IP 20 and IP 67 connectors
- For fibre-optic, ProfiNet, Mobil cable SC/ST and IP 67 connectors



K

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

Accessories

Note

Type	Qty	Order No.
IE-CTI-SC-GOF	1	9205280000
IE-CTI-LC-GOF	1	9205290000

A large selection of plugs and connectors can be found in our current Industrial Ethernet Catalogue.

Type	Qty	Order No.
IE-CTI-SC-POF	1	9205300000
IE-CTI-SC-GOF-P	1	9205310000

A large selection of plugs and connectors can be found in our current Industrial Ethernet Catalogue.

Tools for polymer optical fibre

HTX-HDC/POF

POF crimping

Crimping of fibre optic contacts "polymer optical fibre" (POF).

- For plug and socket
- Ratchet for precise crimping.
- Unlocks in case of incorrect operation
- Locator for precise contact positioning

Contacts:

- Fibre-optic HD-contact socket for \varnothing 1.0mm POF
- Fibre-optic HD-contact pin for \varnothing 1.0mm 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.
PS LWL/POF	1	9020390000
PB LWL/POF	1	9020400000



AM LWL/POF

POF stripping

Stripping fibre-optic cables. Fibre-optic cables with polymer optical fibre (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

Accessories

Type	Qty	Order No.
Spare stripping blades LWL-Stripax	1	9003760000

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 \varnothing	
...	1
Stripping length, max.	7.5
Length	135
Weight	110
POF: polymer optical fibre	



Screwdrivers

Uninsulated torque screwdriver



DMS manual

Torque screwdriver
EN ISO 6798, BS EN 26789, ASME B107.14M



Type	Size / AF	a	b	c	Order No.
DMS MANUAL 0.5-1.7	0.5 - 1.7 Nm				9918370000
DMS MANUAL 2.0-8.0	2.0 - 8.0 Nm				9918380000

WK K S

Interchangeable bits for torque screwdriver
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	3.0	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	4.0	175	9918550000
WK S 1.0x5.5	Max. 3.8 Nm	1.0	5.5	175	9918560000

WK K PZ

Interchangeable bits for torque screwdriver
output acc. to DIN 5260-PZ, ISO 8764/1-PZ



WK K PZ0	Max. 0.9 Nm			175	9918600000
WK K PZ1	Max. 3.8 Nm			175	9918610000
WK K PZ2	Max. 5.5 Nm			175	9918620000

K

WK K PH

Interchangeable bits for torque screwdriver
output acc. to DIN 5260-PH, ISO 8764/1-PH



WK K PH0	Max. 0.9 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: 1/4" C6.3 and 1/4" E6.3



WK 1/4" C6.3 E6.3					9202510000
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VDE-insulated torque screwdriver

DMSI manual

VDE-insulated torque screwdriver
EN ISO 6798, BS EN 26789, ASME B107.14M



WK SI

VDE-insulated interchangeable bits for VDE-insulated torque screwdriver; output acc. to DIN 5264, ISO 2380/1



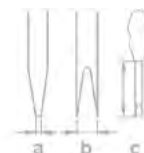
WK IK PH

VDE-insulated interchangeable bits for VDE-insulated torque screwdriver; output acc. to DIN 5260-PH, ISO 8764/1-PH



WK IK PZ

VDE-insulated interchangeable bits for VDE-insulated torque screwdriver; output acc. to DIN 5260-PZ, ISO 8764/1-PZ



Type	Size / AF	a	b	c	Order No.
DMSI MANUAL 0.5-1.7	0.5 - 1.7 Nm				9918390000
DMSI MANUAL 2.0-8.0	2.0 - 8.0 Nm				9918400000

WK SI 0.4x2.5	Max. 0.4 Nm	0.4	2.5	220	9918410000
WK SI 0.5x3.0	Max. 0.6 Nm	0.5	3.0	220	9918420000
WK SI 0.6x3.5	Max. 1.1 Nm	0.6	3.5	220	9918430000
WK SI 0.8x4.0	Max. 2.5 Nm	0.8	4.0	220	9918440000
WK SI 1.0x5.5	Max. 3.8 Nm	1.0	5.5	220	9918450000

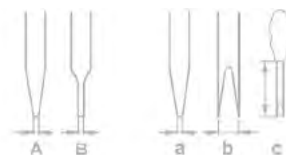
WK IK PH0	Max. 0.9 Nm			220	9918460000
WK IK PH1	Max. 3.8 Nm			220	9918470000
WK IK PH2	Max. 5.5 Nm			220	9918480000

WK IK PZ0	Max. 0.9 Nm			220	9918490000
WK IK PZ1	Max. 3.8 Nm			220	9918500000
WK IK PZ2	Max. 5.5 Nm			220	9918510000

Screwdrivers

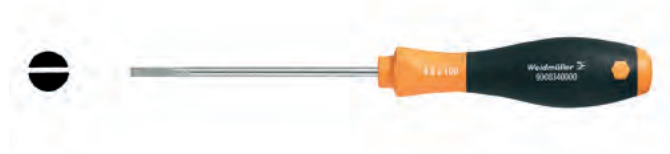
Uninsulated screwdriver

The Weidmüller SoftFinish screwdriver, for general use, has a blade made from fully-hardened high-alloy chromium-vanadium-molybdenum steel with a matt chrome finish.



SD S

Slotted screwdriver with rounded blade SD DIN 5265, ISO 2380/2, output to DIN 5264, ISO 2380/1. ChromTop tip, SoftFinish grip



Type	Blade type	Size / AF	a	b	c	Order No.
SD 0.4x2.0x60	B		0.4	2.0	60	9037160000
SD 0.4x2.5x75	A		0.4	2.5	75	9009030000
SD 0.5x3.0x80	A		0.5	3.0	80	9008320000
SD 0.6x3.5x100	A		0.6	3.5	100	9008330000
SD 0.6x3.5x200	A		0.6	3.5	200	9010110000
SD 0.8x4.0x100	A		0.8	4.0	100	9008340000
SD 0.8x4.5x125	A		0.8	4.5	125	9009020000
SD 1.0x5.5x150	A		1.0	5.5	150	9008350000
SD 1.2x6.5x150	A		1.2	6.5	150	9009010000

SDK PH

Crosshead screwdriver, Phillips, SDK PH DIN 5262, ISO 8764/2-PH, output to ISO 8764-PH, ChromTop tip, SoftFinish grip



Type	Size / AF	a	b	c	Order No.
SDK PH0	0			60	9008470000
SDK PH1	1			80	9008480000
SDK PH2	2			100	9008490000
SDK PH3	3			150	9008500000

SDK PZ

Crosshead screwdriver, Pozidriv, SDK PZ DIN 5262, ISO 8764/2-PZ, output to ISO 8764/1-PZ, ChromTop tip, SoftFinish grip



Type	Size / AF	a	b	c	Order No.
SDK PZ0	0			60	9008520000
SDK PZ1	1			80	9008530000
SDK PZ2	2			100	9008540000
SDK PZ3	3			150	9008550000

K

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), chrome top tip, SoftFinish grip. The SD TH20 can be used with the Klippon® K housing series.



Type	Size / AF	a	b	c	Order No.
SD TH20	20			100	9009160000
SD TH15	15			80	9009170000
SD TH10	10			80	9009180000
SD TH8	8			60	9009190000

SK

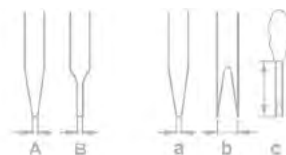
The SK 10.0x125 Allen key, SK DIN 3125, drive output acc. to DIN 475/2, SoftFinish grip. It can be used with all sizes of the Klippon® TB and Klippon® STB housing series.



Type	Size / AF	a	b	c	Order No.
SK 10.0x125	10			125	9009070000

Uninsulated screwdriver

The Weidmüller SoftFinish screwdriver, for general use, has a blade made from fully-hardened high-alloy chromium-vanadium-molybdenum steel with a 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.
SD 0.4x2.5x75	A		0.4	2.5	75	
SD 0.5x3.0x80	A		0.5	3.0	80	
SD 0.8x4.0x100	A		0.8	4.0	100	
SD 1.0x5.5x150	A		1.0	5.5	150	
SD PH 1		1			80	
SD PH 2		2			100	
SDS 2.5-5.5/PH1/2						9009740000

Set S 2.0/2.5/3.0/3.5/4.0/5.5

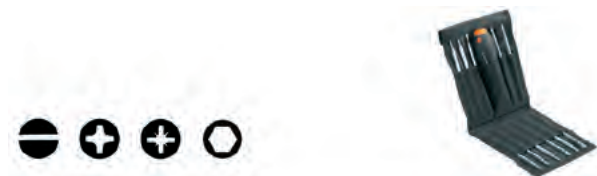
Slotted screwdriver with rounded blade SD DIN 5265, ISO 2380/2, output to DIN 5264, ISO 2380/1. ChromTop tip, SoftFinish grip



SD 0.4x2.0x60	B		0.4	2.0	60	
SD 0.4x2.5x75	A		0.4	2.5	75	
SD 0.5x3.0x80	A		0.5	3.0	80	
SD 0.6x3.5x100	A		0.6	3.5	100	
SD 0.8x4.0x100	A		0.8	4.0	100	
SD 1.0x5.5x150	A		1.0	5.5	150	
SDS 2.0-5.5						9205560000

System 11+1 S-PH-PZ-SK

12-part set of interchangeable blades for slotted head, crosshead PH/PZ and hexagon screws, SoftFinish grip



SD			0.5	3.0	140	
SD			0.8	4.0	140	
SD			1.0	5.0	140	
SD			1.2	6.0	140	
PH 1		1			140	
PH 2		2			140	
PZ 1		1			140	
PZ 2		2			140	
SK		3			140	
SK		4			140	
SK		5			140	
SYSTEM 11+1					140	9009750000

Screwdrivers

Weidmüller wrench set

Allen keys made from fully hardened, high-alloy chromium-vanadium steel, produced acc. to DIN ISO 2936 L (DIN 911), high-quality refined surface.

SK S

7-piece Allen key set



Type	Blade type	Size / AF	a	b	c	Order No.
		2				
		2.5				
		3				
		4				
		5				
		6				
		8				
SKS 2.0-8.0						9008860000

IS 2 KG / IS 3 KG / IS 4 KG

Socket wrench

Hexagon screwdriver with cross-grip made from high-quality plastics

- Surface nickel-plated
- Made from hardened chromium-vanadium s
- According to DIN 6911
- Designed for screws acc. to DIN 6912



Ordering data

Type	Qty.	Order No.
IS 2 KG	1	1806630000
IS 3 KG	1	1806650000
IS 4 KG	1	1806660000

Technical data

Blade length (C)	100 mm
Weight	32 g

Crimp removal tools

Crimp removal tools



Ordering data

Type	Qty.	Order No.
Removal Tool HD	1	1866730000
Removal Tool HE	1	1866750000
Removal Tool HX	1	1002990000
Removal Tool CM 3	1	1866710000
Removal Tool CM 5	1	1866720000

Replacement sleeves, crimp removal tools



Ordering data

Type	Qty.	Order No.
HÜLSE REMOVAL TOOL HD	5	1044100000
HÜLSE REMOVAL TOOL CM 3	5	1044080000
HÜLSE REMOVAL TOOL CM 5	5	1044090000

Module removal tool

Tool for removing ConCept modules from the frame



Ordering data

Type	Qty.	Order No.
HDC-DW-MOD	1	1688200000

Cable entries

Cable entries	Introduction	L.2
	Standard cable glands - Plastic	L.5
	Standard cable glands - Brass	L.7
	EMC cable glands	L.14
	Standard cable glands - Stainless steel	L.16
	Cable glands for Ex applications - Brass	L.17
	Adaptors	L.18
	Accessories - Flat IP washers	L.19
	Sealing plugs	L.21

Cable entries

In this section of the catalogue, we offer a selected range of cable glands for heavy-duty connectors.

Our complete product range is listed in our Enclosure and Cable Entry Catalogue.

Depending on the connector series and the application area, the cable glands, sealing plugs, adaptors, pressure compensation elements and accessories are certified and manufactured in line with the following standards:

- EN 60423 (metric thread)
- EN 40430 (PG and NPT thread)
- EN 60079-0 (General ATEX regulations)
- EN 50262 (strain relief)
- EN 60529 (IP protection degree)












The range of cable glands is available in metric (M) and high-strength (PG) threads. When choosing glands and sealing plugs, the table with the sealing characteristics of the O-rings, IP washers and sealing rings must be considered. The O-ring or IP washer is provided to seal the connecting thread of an enclosure, the sealing ring is for the gland and actually seals and clamps the connection cable.





Glands and accessories

The tables below provide an overview of the Weidmüller cable glands and the recommended accessories.


Standard glands

Material/Type	Approvals				Thread sealing rings			Locknuts				
	IP class of protection without seal	IP class of protection with seal	Ex	EMC	Armou- ring	CSM GWDR PO	CR GWDR...NR	O-Ring	grey SKMU...K GR	black SKMU...K SW	brass SKMU...MS	MS EMC SKMU EMV...
Plastic												
 VG ... K67	IP67								●			
 VG ... K68	IP68 / 5 bar								●			
 VG ... K68 SKS	IP68 / 5 bar								●			
Nickel-plated brass												
 VG ... MS54	IP54	IP65				optional					●	
 VG ... MS54-ZE	IP54										●	
 VG...MS54 ZE BS	IP54										●	
 VG...MS54 ZR	IP54										●	
 VG ... MS68		IP68 / 5 bar, IP69k						included			●	
 VG ... EMV		IP68 / 10 bar		●				included				●
 VG ... 1/EMV		IP68 / 5 bar, IP69k		●				included				●
Stainless steel												
 VG...SS68		IP68 / 5 bar, IP69k						included			●	



Cable glands HQ

Material/Type	Approvals				Thread sealing rings			Locknuts				
	IP class of protection without seal	IP class of protection with seal	Ex	EMC	Armou- ring	CSM GWDR PO	CR GWDR...NR	O-Ring	grey SKMU...K GR	black SKMU...K SW	brass SKMU...MS	MS EMC SKMU EMV...
Plastic												
 VG ... K68 ...	IP65											
Nickel-plated brass												
 VG ... MS68 ...	IP65											
 VG ... EMV68 ...	IP65			●								

Cable glands Ex

Material/Type	Approvals				Thread sealing rings			Locknuts				
	IP class of protection without seal	IP class of protection with seal	Ex	EMC	Armou- ring	CSM GWDR PO	CR GWDR...NR	O-Ring	grey SKMU...K GR	black SKMU...K SW	brass SKMU...MS	MS EMC SKMU EMV...
Nickel-plated brass												
 VG ... Exe MS		IP68 / 20 bar	Exe					included			●	●
Stainless steel glands on request												

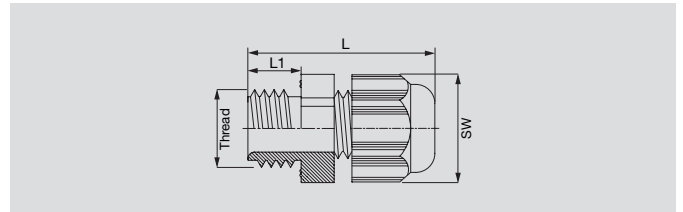
Stopping plugs

Material/Type	Approvals				Thread sealing rings			Locknuts				
	IP class of protection without seal	IP class of protection with seal	Ex	EMC	Armou- ring	CSM GWDR PO	CR GWDR...NR	O-Ring	grey SKMU...K GR	black SKMU...K SW	brass SKMU...MS	MS EMC SKMU EMV...
Plastic												
 VP ... K54	IP54	IP66							●			
Nickel-plated brass												
 VP ... MS65		IP68						included			●	

Cable glands - Plastic - IP68



Plastic cable glands with integrated strain relief mechanism suitable for industrial applications that require IP68 protection.



Technical data

Material / Colour	Polyamide 6 / RAL 7035
Seal insert	CR
Temperature range	-30 °C...80 °C
Degree of protection	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	TRQ CN, min.	TRQ CN, max.	TRQ BO, min.	TRQ BO, max.	Qty.	Order No.
metric										
VG M16-1/K68	M 16 x 1.5	5.00-10.00	39.7 / 10.00	22	2.00	3.00	3.00	5.00	50	1772290000
VG M16-1/K68	M 16 x 1.5	4.00-8.00	35.7 / 8.00	19	2.50	2.50	3.80	3.80	50	1909860000
VG M20-1/K68	M 20 x 1.5	6.00-12.00	41.2 / 10.00	24	2.50	2.50	3.80	3.80	50	1772300000
VG M25-1/K68	M 25 x 1.5	13.00-18.00	48.2 / 10.00	33	7.00	9.00	10.00	13.00	25	1772310000
VG M25-1/K68	M 25 x 1.5	11.00-17.00	43.2 / 8.00	29	5.00	5.00	7.50	7.50	25	1909870000
VG M32-1/K68	M 32 x 1.5	18.00-25.00	50.8 / 15.00	42	8.00	10.00	12.00	15.00	20	1772320000
VG M32-1/K68	M 32 x 1.5	15.00-21.00	50.7 / 10.00	36	5.00	5.00	7.50	7.50	20	1909880000
VG M40-1/K68	M 40 x 1.5	22.00-32.00	69.9 / 15.00	53	15.00	20.00	22.00	30.00	10	1772330000
VG M40-1/K68	M 40 x 1.5	19.00-28.00	55.2 / 10.00	46	11.00	11.00	7.50	7.50	10	1909890000
VG M50-1/K68	M 50 x 1.5	30.00-38.00	71.7 / 18.00	60	20.00	25.00	30.00	35.00	10	1772340000
VG M50-1/K68	M 50 x 1.5	30.00-38.00	70.3 / 18.00	60	12.00	12.00	7.50	7.50	10	1909900000
VG M63-1/K68	M 63 x 1.5	34.00-44.00	72.9 / 18.00	65	12.00	12.00	7.50	7.50	10	1772350000
PG										
VG 9-K68	PG 9	4.00-8.00	34 / 8.00	19	2.50	2.50	3.75	3.75	50	1568980000
VG 11-K68	PG 11	5.00-10.00	37 / 8.00	22	2.50	2.50	3.75	3.75	50	1568990000
VG 13.5-K68	PG 13.5	6.00-12.00	39 / 9.00	24	2.50	2.50	3.75	3.75	50	1569000000
VG 16-K68	PG 16	10.00-14.00	42.5 / 10.00	27	3.30	3.30	5.00	5.00	50	1569010000
VG 21-K68	PG 21	13.00-18.00	48 / 11.00	33	5.00	5.00	7.50	7.50	25	1569020000
VG 29-K68	PG 29	18.00-25.00	53 / 11.00	42	5.00	5.00	7.50	7.50	20	1569030000
VG 36-K68	PG 36	22.00-32.00	65 / 13.00	53	5.00	5.00	7.50	7.50	10	1569040000
VG 42-K68	PG 42	30.00-38.00	68 / 13.00	60	5.00	5.00	7.50	7.50	10	1569050000
VG 48-K68	PG 48	34.00-44.00	69 / 14.00	65	5.00	5.00	7.50	7.50	10	1718770000

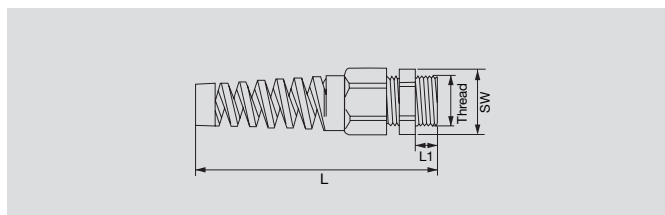
Note halogen free, without sealing ring

Standard cable glands - Plastic

Cable glands - Plastic - SKS



Plastic cable glands with spiral bending protection specially suited for flexible connections.



Technical data

Material / Colour	Polyamide 6 / RAL 7035
Seal insert	CR
Temperature range	-30 °C...80 °C
Degree of protection	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

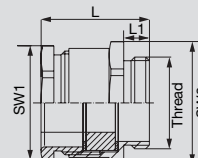
Type	Thread	KB	L/L1	SW	TRQ CN, min.	TRQ CN, max.	TRQ BO, min.	TRQ BO, max.	Qty.	Order No.
metric										
VG M16-K68 SKS	M 16 x 1.5	5.00-10.00	80 / 15.00	22	2.50	2.50	3.80	3.80	50	1776710000
VG M20-K68 SKS	M 20 x 1.5	6.00-12.00	106 / 11.00	24	2.50	2.50	3.80	3.80	50	1778860000
VG M20-K68 SKS	M 20 x 1.5	10.00-14.00	106 / 15.00	27	3.30	3.30	5.00	5.00	50	1776720000
VG M25-K68 SKS	M 25 x 1.5	13.00-18.00	129 / 15.00	33	5.00	5.00	7.50	7.50	25	1776730000
PG										
VG 9-K68 SKS	PG 9	4.00-8.00	78 / 8.00	19	2.50	2.50	3.75	3.75	50	1720480000
VG 11-K68 SKS	PG 11	5.00-10.00	84 / 8.00	22	2.50	2.50	3.75	3.75	100	1720490000
VG 13.5-K68 SKS	PG 13.5	6.00-12.00	105 / 9.00	24	2.50	2.50	3.75	3.75	50	1720500000
VG 16-K68 SKS	PG 16	10.00-14.00	117 / 10.00	27	3.30	3.30	5.00	5.00	25	1720510000
VG 21-K68 SKS	PG 21	13.00-18.00	130 / 11.00	33	5.00	5.00	7.50	7.50	20	1720520000

Note halogen free, without sealing ring

Cable glands - Brass - IP54



Brass cable glands for industrial applications that require IP54 protection.



Technical data

Material	Brass, nickel-plated
Seal insert	NBR
Temperature range	-20 °C...60 °C
Degree of protection	IP 54
Degree of protection with thread gasket	IP 65

Note Optional sealing ring
Length „L“ varies depending on the cable diameter used.

Ordering data

Type	Thread	KB	L/L1	SW1/SW2	TRQ CN, min.	TRQ CN, max.	TRQ BO, min.	TRQ BO, max.	Qty.	Order No.
metric										
VG M16-MS54	M 16 x 1.5	8.00-10.00	26 / 6.00	18 / 20	3.05	3.05	6.25	6.25	100	1778390000
VG M20-MS54	M 20 x 1.5	8.00-10.00	26.5 / 6.50	18 / 22	3.05	3.05	6.25	6.25	50	1778380000
VG M20-MS54	M 20 x 1.5	10.00-12.00	26.5 / 6.50	20 / 22	3.05	3.05	6.25	6.25	50	1778370000
VG M25-MS54	M 25 x 1.5	12.00-14.00	27.5 / 7.00	22 / 27	3.66	3.66	7.50	7.50	50	1778360000
VG M25-MS54	M 25 x 1.5	15.00-17.00	29.5 / 7.00	28 / 30	4.88	4.88	10.00	10.00	50	1778350000
VG M32-MS54	M 32 x 1.5	24.00-26.00	33 / 8.00	38 / 40	4.88	4.88	10.00	10.00	25	1778340000
VG M40-MS54	M 40 x 1.5	28.00-30.00	33 / 8.00	37 / 43	4.88	4.88	10.00	10.00	25	1778330000
VG M50-MS54	M 50 x 1.5	31.00-33.00	39 / 9.00	47 / 55	4.88	4.88	10.00	10.00	10	1778320000
VG M50-MS54	M 50 x 1.5	39.00-41.00	43 / 9.00	54 / 57	4.88	4.88	10.00	10.00	5	1778310000
VG M63-MS54	M 63 x 1.5	45.00-47.00	45 / 10.00	60 / 68	4.88	4.88	10.00	10.00	5	1778300000
PG										
VG 9-MS54	PG 9	6.00-8.00	22 / 6.00	15 / 17	10.13	10.13	15.20	15.20	100	0261500000
VG 11-MS54	PG 11	8.00-10.00	26 / 6.00	18 / 20	12.40	12.40	18.60	18.60	50	0260700000
VG 13.5-MS54	PG 13.5	10.00-12.00	26 / 6.50	20 / 22	13.60	13.60	20.40	20.40	50	0260800000
VG 16-MS54	PG 16	12.00-14.00	27 / 6.50	22 / 24	15.00	15.00	22.50	22.50	50	0261400000
VG 21-MS54	PG 21	15.00-17.00	29.5 / 7.00	28 / 30	18.87	18.87	28.30	28.30	50	0260900000
VG 29-MS54	PG 29	24.00-26.00	33 / 8.00	37 / 40	24.67	24.67	37.00	37.00	25	0261000000
VG 36-MS54	PG 36	33.00-35.00	39 / 9.00	47 / 50	31.33	31.33	47.00	47.00	20	0497600000
VG 42-MS54	PG 42	41.00-43.00	44 / 10.00	54 / 57	36.00	36.00	54.00	54.00	10	0497700000
VG 48-MS54	PG 48	45.00-47.00	45 / 10.00	60 / 64	39.50	39.50	59.30	59.30	5	1718780000

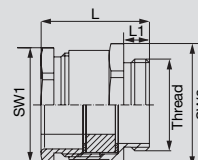
Note Further versions on request

Standard cable glands - Brass

Cable glands - Brass - ZR



Brass cable gland with concentric O-rings for standard industrial applications. The sealed insert used here contains several removable or dividable inlets. This allows to connect cables of a wide diameter range (from 4 mm to 41 mm) with only one sealed insert.



Technical data

Material	Brass, nickel-plated
Seal insert	NBR
Temperature range	-20 °C...80 °C
Degree of protection	IP 54

Note

Ordering data

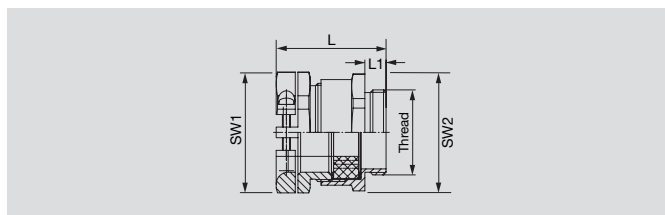
Type	Thread	KB	L/L1	SW1/SW2	TRQ CN, min.	TRQ BO, min.	D1	D2	D3	D4	Qty.	Order No.
metric												
VG M20-MS54	M 20 x 1.5	4.00-13.00	26.5 / 6.50	22 / 24	3.05	6.25	4	7	10	13	50	1009560000
VG M25-MS54	M 25 x 1.5	8.50-18.00	27.5 / 7.00	28 / 30	3.66	7.50	8.5	11.5	14.5	18	25	1009570000
VG M32-MS54	M 32 x 1.5	16.00-26.00	33 / 8.00	37 / 40	4.88	10.00	16	19	22	25	25	1009580000
VG M40-MS54	M 40 x 1.5	23.00-30.00	33 / 33.00	47 / 50	4.88	10.00	23	26	29	32	10	1009590000
VG M50-MS54	M 50 x 1.5	32.00-40.00	39 / 39.00	54 / 57	4.88	10.00	32	35	38	41	5	1009600000
PG												
VGPG13.5-MS54	PG 13.5	7.50-12.50	22 / 6.50	20 / 22	13.60	20.40	7.5	10	12.5	0	50	1009610000
VG PG16-MS54	PG 16	7.50-15.00	27 / 6.50	22 / 24	15.00	22.50	7.5	10	12.5	15	50	1009620000
VG PG21-MS54	PG 21	10.00-19.00	29.5 / 7.00	28 / 30	18.87	28.30	10	13	16	19	25	1009630000
VG PG29-MS54	PG 29	18.00-27.00	33 / 8.00	37 / 40	24.67	37.00	18	21	24	27	25	1009640000
VG PG36-MS54	PG 36	24.00-33.00	39 / 9.00	47 / 50	31.33	47.00	24	27	30	33	10	1009650000
VG PG42-MS54	PG 42	30.00-39.00	44 / 10.00	54 / 57	36.00	54.00	30	33	36	39	5	1009670000

Note It is possible to connect cables with diameters ranging from D1 to D4.

Cable glands - Brass - ZE



Brass cable glands with external, centrally positioned strain relief provided by the clamping jaws.



Technical data

Material	Brass, nickel-plated
Seal insert	NBR
Temperature range	-20 °C...80 °C
Degree of protection	IP 54

Note Optional sealing ring
Length „L“ varies depending on the cable diameter used.

Ordering data

Type	Thread	KB	L/L1	SW1/SW2	TRQ CN, min.	TRQ CN, max.	TRQ BO, min.	TRQ BO, max.	Qty.	Order No.
metric										
VG M16-MS54 ZE	M 16 x 1.5	4.00-10.00	26 / 6.00	18 / 19	6.67	6.67	10.00	10.00	100	1778440000
VG M20-MS54 ZE	M 20 x 1.5	6.50-12.50	26.5 / 6.50	20 / 22	8.00	8.00	12.00	12.00	50	1778450000
VG M20-MS54 ZE	M 20 x 1.5	6.50-12.50	26.5 / 6.50	22 / 22	8.00	8.00	12.00	12.00	50	1778460000
VG M25-MS54 ZE	M 25 x 1.5	9.00-19.00	29.5 / 7.00	30 / 34	8.00	8.00	12.00	12.00	50	1778480000
VG M32-MS54 ZE	M 32 x 1.5	17.00-27.00	33 / 8.00	40 / 42	12.00	12.00	18.00	18.00	25	1778490000
VG M40-MS54 ZE	M 40 x 1.5	23.00-33.00	33 / 8.00	50 / 52	12.00	12.00	18.00	18.00	25	1778500000
VG M50-MS54 ZE	M 50 x 1.5	29.00-39.00	43 / 9.00	57 / 59	13.33	13.33	20.00	20.00	5	1778520000
VG M63-MS54 ZE	M 63 x 1.5	35.00-45.00	45 / 10.00	66 / 64	13.33	13.33	20.00	20.00	5	1778530000
PG										
VG 9-MS54-ZE	PG 9	4.00-10.00	30.5 / 6.00	17 / 19	10.13	10.13	15.20	15.20	50	1718810000
VG 11-MS54-ZE	PG 11	6.50-12.50	31.5 / 6.00	20 / 22	12.40	12.40	18.60	18.60	50	1718820000
VG 13.5-MS54-ZE	PG 13.5	6.50-12.50	32 / 6.50	22 / 24	13.60	13.60	20.40	20.40	50	1718830000
VG 16-MS54-ZE	PG 16	6.50-15.00	33 / 6.50	24 / 27	15.00	15.00	22.50	22.50	50	1718840000
VG 21-MS54-ZE	PG 21	9.00-19.00	38 / 7.00	30 / 34	18.87	18.87	28.30	28.30	50	1718850000
VG 29-MS54-ZE	PG 29	17.00-27.00	43 / 8.00	40 / 42	24.67	24.67	37.00	37.00	25	1718860000
VG 36-MS54-ZE	PG 36	23.00-33.00	49.5 / 9.00	50 / 52	31.33	31.33	47.00	47.00	10	1718870000
VG 42-MS54-ZE	PG 42	29.00-39.00	53.5 / 10.00	57 / 62	36.00	36.00	54.00	54.00	5	1718880000
VG 48-MS54-ZE	PG 48	35.00-45.00	55 / 10.00	64 / 68	39.53	39.53	59.30	59.30	5	1718890000

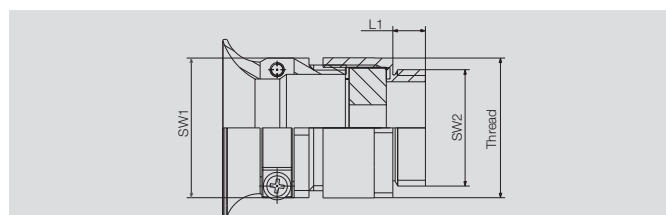
Note Further versions on request

Standard cable glands - Brass

Cable glands with strain-relief and bending protection



Industrial brass cable glands with strain-relief and bending protection for connecting non-stationary cables and lines.



Technical data

Material	Brass, nickel-plated
Seal insert	NBR
Temperature range	-20 °C...80 °C
Degree of protection	IP 54

Note

Ordering data

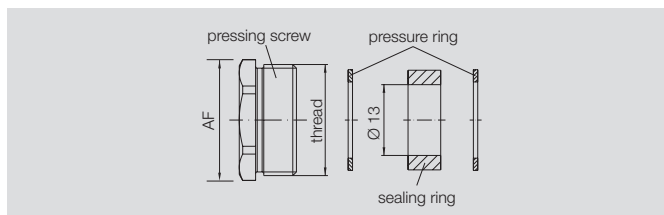
Type	Thread	KB	L/L1	SW1/SW2	TRQ CN, min.	TRQ CN, max.	TRQ BO, min.	TRQ BO, max.	Qty.	Order No.
metric										
VGM16-MS54ZE	M 16 x 1.5	4.00-10.00	5 / 5.00	17 / 18	2.50	2.50	4.00	4.00	50	1005190000
VGM16-MS54ZE	M 16 x 1.5	6.50-12.50	34 / 5.00	17 / 18	2.50	2.50	4.00	4.00	50	1005200000
VGM20-MS54ZE	M 20 x 1.5	6.50-12.50	37.8 / 6.00	22 / 22	8.00	8.00	12.00	12.00	50	1005210000
VGM20-MS54ZE	M 20 x 1.5	6.50-15.00	37.8 / 6.00	22 / 22	8.00	8.00	12.00	12.00	50	1005220000
VGM25-MS54ZE	M 25 x 1.5	9.00-19.00	44 / 7.00	30 / 30	8.00	8.00	12.00	12.00	25	1005230000
VGM32-MS54ZE	M 32 x 1.5	17.00-27.00	50.8 / 8.00	41 / 40	12.00	12.00	18.00	18.00	25	1005240000

Note

Brass clamping screws - IP54



These special cable glands are designed for use in HDC RockStar® bases and hoods.



Technical data

Clamping screw material	Nickel-plated brass
Sealing ring material	SBR/NBR
Pressure ring material	Polyamide
Temperature range	-20 °C...60 °C

Note

Ordering data

Type	Thread	Inserts in mm	SW	Qty.	Order No.
metric					
VG H M20 MS	M 20 x 1.5	4 / 7 / 10 / 13	20	50	1921720000
VG H M25 MS	M 25 x 1.5	8.5 / 11.5 / 14.5 / 18	25	25	1921740000
VG H M32 MS	M 32 x 1.5	16 / 19 / 22 / 25	32	20	1921760000
VG H M40 MS	M 40 x 1.5	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

Standard cable glands - Brass

Cable glands HQ



Cable glands specifically for the HQ series, in plastic. Available as brass and brass-EMC versions.

Technical data

Material	PA 6 / Brass, nickel-plated
Seal insert	TPE-V
Temperature range	-40 °C...100 °C
Degree of protection	IP 68

Note

Ordering data

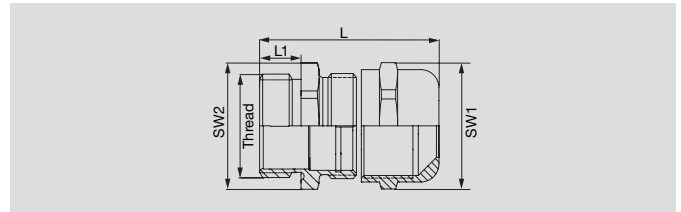
Type	Thread	KB	SW	Qty.	Order No.
Plastic					
VG 16 HQ K68 9-13	PG 16	9.00-13.00	27	1	1016070000
VG 16 HQ K68 11.5-15.5	PG 16	11.50-15.50	27	1	1016080000
Brass					
VG 21 HQ MS68 9-13	PG 21	9.00-13.00	30	1	1016090000
VG 21 HQ MS68 11.5-15.5	PG 21	11.50-15.50	30	1	1016100000
VG 21 HQ MS68 14-18	PG 21	14.00-18.00	30	1	1016110000
EMC					
VG 21 HQ EMV68 11-15.5	PG 21	11.00-15.50	30	1	1016120000
VG 21 HQ EMV68 14-18	PG 21	14.00-18.00	30	1	1016130000
Only for angled HQ base housing (order number 1003110000)					
VG16 HQ K68 9-12SH	PG 16	9.00-12.00	30	50	1045530000
VG16 HQ K68 11.5-15.5SH	PG 16	11.50-15.50	30	50	1045540000

Note

Cable glands - Brass - IP68



Standard brass cable glands for industrial applications that require IP68 protection.



Technical data

Material	Brass, nickel-plated
O-ring / Seal insert	NBR / CR
Temperature range	-40 °C...100 °C
Clamp insert	Polyamide
Degree of protection with thread gasket	IP 68 - 5 bar

Note Length „L“ varies according to cable diameter used

Ordering data

Type	Thread	L/L1	SW	TRQ CN, min.	TRQ CN, max.	TRQ BO, min.	TRQ BO, max.	Qty.	Order No.
metric									
VG M16-1/MS68	M 16 x 1,5	28 / 5,50	17	2,50	2,50	3,80	3,80	50	1772210000
VG M16-1/MS68	M 16 x 1,5	37,3 / 7,00	20	12,00	12,00	10,00	10,00	50	1909910000
VG M20-1/MS68	M 20 x 1,5	32 / 8,00	22	2,50	2,50	3,80	3,80	50	1772220000
VG M25-1/MS68	M 25 x 1,5	35 / 7,00	30	12,00	12,00	7,50	7,50	25	1772230000
VG M25-1/MS68	M 25 x 1,5	42 / 8,00	27	20,00	20,00	14,00	14,00	25	1909920000
VG M32-1/MS68	M 32 x 1,5	39 / 8,00	34	12,00	12,00	7,50	7,50	25	1772240000
VG M32-1/MS68	M 32 x 1,5	45 / 8,00	34	20,00	20,00	20,00	20,00	20	1909930000
VG M40-1/MS68	M 40 x 1,5	53 / 8,00	44	12,00	12,00	7,50	7,50	20	1772250000
VG M40-1/MS68	M 40 x 1,5	55,1 / 9,00	43	20,00	20,00	20,00	20,00	20	1909940000
VG M50-1/MS68	M 50 x 1,5	62,2 / 9,00	58	20,00	20,00	20,00	20,00	12	1909950000
VG M63-1/MS68	M 63 x 1,5	63,6 / 14,00	64	20,00	20,00	20,00	20,00	12	1772270000
PG (IP 69K)									
VG 9-MS68	PG 9	27 / 6,00	17	12,00	12,00	10,00	10,00	50	1569070000
VG 11-MS68	PG 11	28,5 / 6,00	20	12,00	12,00	10,00	10,00	50	1569080000
VG 13,5-MS68	PG 13,5	29,5 / 6,50	22	14,00	14,00	12,00	12,00	50	1569090000
VG 16-MS68	PG 16	29,5 / 6,50	24	14,00	14,00	14,00	14,00	25	1569100000
VG 21-MS68	PG 21	33,5 / 7,00	30	18,00	18,00	16,00	16,00	25	1569110000
PG (IP 68)									
VG 29-MS68	PG 29	37,5 / 8,00	40	20,00	20,00	20,00	20,00	20	1569120000
VG 36-MS68	PG 36	45 / 10,00	50	20,00	20,00	20,00	20,00	15	1569130000
VG 42-MS68	PG 42	47,5 / 12,00	58	20,00	20,00	20,00	20,00	12	1569140000
VG 48-MS68	PG 48	50,5 / 14,00	64	20,00	20,00	20,00	20,00	12	1718790000

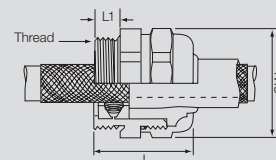
Note Further versions on request

EMC cable glands

Cable glands - Brass - EMC



Brass cable glands for shielding against interference frequencies with a screening attenuation of up to 100 dB. Contact with cable shield by means of spring washer.



Technical data

Material	Brass, nickel-plated
O-Ring	NBR
Temperature range	-40 °C...135 °C
Degree of protection	IP 68 - 5 bar
Degree of protection with thread gasket	IP 68 - 10 bar
Clamp insert	TPE

Note Length „L“ varies according to cable diameter used

Ordering data

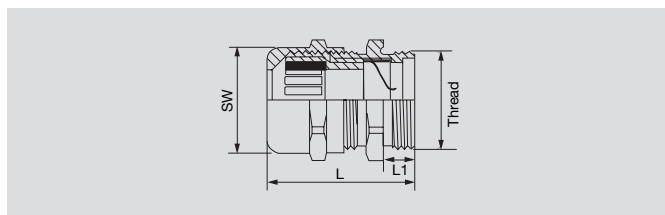
Type	Thread	KB	Shield Ø	L/L1	SW	TRQ CN, min.	TRQ CN, max.	TRQ BO, min.	TRQ BO, max.	Qty.	Order No.
metric											
VG EMV M20X1.5	M 20 x 1.5	8.00-11.00	4.00-8.50	41 / 10.00	24	9.00	10.00	9.00	9.00	50	1706940000
VG EMV M25X1.5	M 25 x 1.5	14.00-18.00	8.00-13.50	43 / 11.00	30	10.00	10.00	10.00	10.00	25	1706950000
PG											
VG EMV PG 9/11	PG 9	6.50-9.50	2.50-6.00	34 / 6.00	20	6.00	8.00	6.00	6.00	50	1706860000
VG EMV PG 11	PG 11	6.50-9.00	3.50-7.50	41 / 10.00	24	10.00	10.00	10.00	10.00	50	1706870000
VG EMV PG 13.5	PG 13.5	8.00-11.00	4.00-8.50	41 / 10.00	24	10.00	10.00	10.00	10.00	50	1706880000
VG EMV PG 16 K14	PG 16	10.00-14.00	8.00-13.00	43 / 11.00	30	10.00	10.00	10.00	10.00	25	1706890000
VG EMV PG 16 K18	PG 16	14.00-18.00	8.00-13.00	43 / 11.00	30	10.00	10.00	10.00	10.00	25	1713880000
VG EMV PG 21 K18	PG 21	17.00-18.00	12.50-17.50	45 / 11.00	35	10.00	15.00	10.00	10.00	10	1706900000
VG EMV PG K28	PG 21	17.00-20.00	12.50-17.50	45 / 11.00	35	8.00	15.00	8.00	8.00	10	1713890000
VG EMV PG 29 K26	PG 29	22.00-26.00	15.00-21.00	52 / 13.00	40	15.00	20.00	15.00	15.00	10	1706910000
VG EMV PG 29 K29	PG 29	25.00-29.00	22.00-25.00	58 / 13.00	50	20.00	20.00	20.00	20.00	5	1713900000
VG EMV PG36 K32-27	PG 36	27.00-32.00	24.00-30.50	54 / 9.00	50	15.00	30.00	15.00	15.00	10	1770410000

Note Further versions on request

Cable glands - Brass - 1/EMC



Brass cable glands for shielding against interference frequencies with a screening attenuation of up to 90 dB. Conical metal cage ensures multiple contacts with the cable shielding.



Technical data

Material	Brass, nickel-plated
O-ring / Seal insert	NBR / CR
Temperature range	-40 °C...100 °C
Degree of protection	IP 68 - 5 bar
Clamp insert	Polyamide

Note Length „L“ varies according to cable diameter used

Ordering data

Type	Thread	KB	L/L1	SW	TRQ CN, min.	TRQ CN, max.	TRQ BO, min.	TRQ BO, max.	Qty.	Order No.
metric										
VG M16-MS 1/EMV	M 16 x 1.5	4.50-10.00	37.3 / 7.00	20	5.00	7.00	8.00	10.00	50	1909500000
VG M20-MS 1/EMV	M 20 x 1.5	6.00-12.00	38.8 / 8.00	22	8.00	10.00	12.00	15.00	50	1909510000
VG M25-MS 1/EMV	M 25 x 1.5	11.00-17.00	42 / 8.00	27	6.00	8.00	9.00	12.00	25	1909520000
VG M32-MS 1/EMV	M 32 x 1.5	15.00-21.00	45 / 8.00	34	6.00	10.00	9.00	15.00	20	1909530000
VG M40-MS 1/EMV	M 40 x 1.5	19.00-28.00	55.1 / 9.00	43	7.00	10.00	10.00	15.00	10	1909540000
VG M50-MS 1/EMV	M 50 x 1.5	27.00-38.00	62.2 / 9.00	58	20.00	30.00	30.00	45.00	10	1909550000
VG M63-MS 1/EMV	M 63 x 1.5	34.00-44.00	71.5 / 14.00	64	23.00	28.00	30.00	40.00	5	1909560000

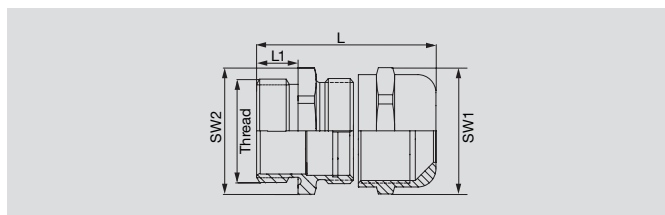
Note Further versions on request

Standard cable glands - Stainless steel

Cable glands - Stainless steel - IP68



Stainless steel cable glands for standard industrial applications that require a high (IP68) degree of protection. 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
O-Ring / Seal insert	NBR / CR
Temperature range	-40 °C...100 °C
Degree of protection	IP68 - 5 bar (30 min)

Note

Ordering data

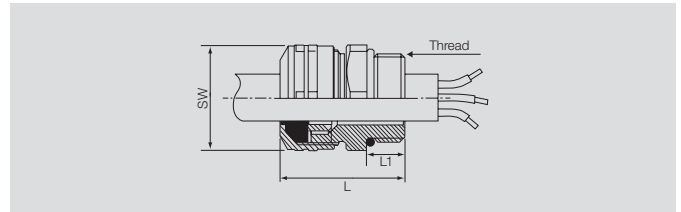
Type	Thread	KB	L/L1	SW	TRQ CN, min.	TRQ CN, max.	TRQ BO, min.	TRQ BO, max.	Qty.	Order No.
metric										
VGM16-SS 68 KB 4-8	M 16 x 1.5	4.00-8.00	7.00	18	8.00	10.00	15.00	12.00	50	1009850000
VGM20-SS 68 KB 6-12	M 20 x 1.5	6.00-12.00	8.00	22	12.00	15.00	22.00	16.00	50	1009860000
VGM25-SS 68 KB 10-14	M 25 x 1.5	10.00-14.00	8.00	27	15.00	20.00	30.00	22.00	25	1009870000
VGM32-SS 68 KB 13-18	M 32 x 1.5	13.00-18.00	9.00	34	28.00	35.00	50.00	40.00	20	1009880000
VGM40-SS 68 KB 18-25	M 40 x 1.5	18.00-25.00	9.00	43	30.00	40.00	60.00	45.00	20	1009890000
VGM50-SS 68 KB 22-32	M 50 x 1.5	22.00-32.00	9.00	55	35.00	45.00	60.00	50.00	12	1009900000
VGM63-SS 68 KB 34-44	M 63 x 1.5	34.00-44.00	14.00	68	45.00	55.00	70.00	60.00	10	1009910000
PG										
VG 9-SS 68 KB 4-8	PG 9	4.00-8.00	6.00	17	8.00	10.00	15.00	12.00	50	1009750000
VG 11-SS 68 KB 5-10	PG 11	5.00-10.00	6.00	22	10.00	13.00	20.00	15.00	50	1009760000
VG 13.5-SS 68 KB 6-12	PG 13.5	6.00-12.00	6.50	22	12.00	15.00	22.00	16.00	50	1009770000
VG 16-SS 68 KB 10-14	PG 16	10.00-14.00	6.50	24	15.00	20.00	30.00	22.00	25	1009780000
VG 21-SS 68 KB 13-18	PG 21	13.00-18.00	7.50	30	28.00	35.00	50.00	40.00	25	1009790000
VG 29-SS 68 KB 18-25	PG 29	18.00-25.00	8.00	40	30.00	40.00	60.00	45.00	20	1009800000
VG 36-SS 68 KB 22-32	PG 36	22.00-32.00	9.00	50	35.00	45.00	60.00	50.00	15	1009810000
VG 42-SS 68 KB 30-38	PG 42	30.00-38.00	12.00	58	40.00	50.00	70.00	55.00	12	1009820000
VG 48-SS 68 KB 34-44	PG 48	34.00-44.00	14.00	64	45.00	55.00	70.00	60.00	10	1009830000

Note

Cable glands - Brass - Ex e, IP 68



Brass nickel-plated cable glands for use in Ex zones Ex-e and Ex-i.



Technical data

Material	Brass, nickel-plated
O-ring / Seal insert	NBR / CR
Temperature range	-40 °C...100 °C
Degree of protection	IP 68 - 5 bar (30 min.)
Approval	Ex e II, II 2 GD

Note Length „L“ varies according to cable diameter used

Ordering data

Type	Thread	KB	L/L1	SW	TRQ CN, min.	TRQ CN, max.	TRQ BO, min.	TRQ BO, max.	Qty.	Order No.
metric										
VG M20-EXE MS	M 20 x 1,5	8.50-13.00	28 / 8.00	24	27.50	27.50	6.00	6.00	50	1737220000
VG M25-EXE MS	M 25 x 1,5	13.50-18.00	33 / 9.00	30	45.00	45.00	10.00	10.00	20	1737230000
VG M32-EXE MS	M 32 x 1,5	17.50-25.00	38 / 10.00	41	85.00	85.00	17.50	17.50	20	1737240000
NPT										
VG NPT 3/4" Eex-e MS	NPT 3/4"	13.50-18.00	24 / 16.00	30					1	1778150000

Note Further versions available on request
Suitable for the Heat Trace connector, Chapter G

Adaptors

Adaptors with NPT male threads



Adaptors can be used to connect threaded holes and cable glands of different thread sizes and types.

Technical data

Material	Brass, nickel-plated
Temperature range	-40 °C...100 °C
Degree of protection	IP 54
Degree of protection with thread gasket	IP 68
Approval	II 2 GD, Ex d IIC, Ex e II, Ex tD

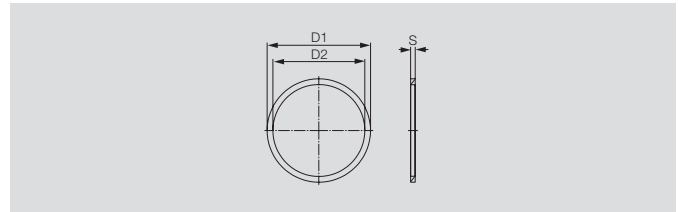
Ordering data

External thread	3/4" NPT
Inner thread	Order No.
M20	1737640000
M25	1737800000
M32	1737950000
1/2" NPT	1738400000
3/4" NPT	1738560000
Note	We recommend using sealing compound or tape Suitable for the Heat Trace connector, Chapter G

Flat IP washers - Standard - Polyethylene



Flat IP washers 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 x 1.5	16.00	12.00	1.50	50	1777920000
GWDR M16-PO	M 16 x 1.5	20.00	16.00	1.50	50	1777930000
GWDR M20-PO	M 20 x 1.5	25.00	20.40	2.00	100	1777940000
GWDR M25-PO	M 25 x 1.5	30.00	25.00	2.00	50	1777950000
GWDR M32-PO	M 32 x 1.5	38.00	32.00	2.00	50	1777960000
GWDR M40-PO	M 40 x 1.5	45.00	40.00	2.00	50	1777970000
GWDR M50-PO	M 50 x 1.5	56.00	50.00	2.00	50	1777980000
GWDR M63-PO	M 63 x 1.5	70.00	63.00	2.00	50	1777990000
PG						
GWDR PG7-PO	PG 7	16.50	12.50	1.60	100	1719440000
GWDR PG9-PO	PG 9	19.00	15.20	1.60	100	1719450000
GWDR PG11-PO	PG 11	22.50	18.60	1.80	100	1719460000
GWDR PG13.5-PO	PG 13.5	25.00	20.40	1.80	100	1719470000
GWDR PG16-PO	PG 16	27.00	22.50	1.80	100	1719480000
GWDR PG21-PO	PG 21	33.50	28.30	2.20	100	1719490000
GWDR PG29-PO	PG 29	43.50	37.00	2.20	50	1719500000
GWDR PG36-PO	PG 36	55.00	47.00	2.70	50	1719510000
GWDR PG42-PO	PG 42	63.00	54.00	3.20	10	1719520000
GWDR PG48-PO	PG 48	69.00	59.30	3.20	5	1719530000

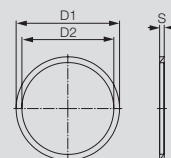
Note Further versions on request

Accessories - Flat IP washers

Flat IP washers - Standard - Neoprene



Flat IP washers for increasing the degree of protection for cable glands and sealing plugs – recommended for use in Ex applications. The IP washers are also suitable as a replacement for O-rings.



Technical data

Material / Colour	Neoprene / RAL 9005
Temperature range	-40 °C...100 °C

Note

Ordering data

Type	Thread	D1	D2	S	Qty.	Order No.
metric						
GWDR M12-NP	M 12 x 1.5	16.00	12.00	1.20	50	1913320000
GWDR M16-NP	M 16 x 1.5	22.00	16.00	1.20	50	1736230000
GWDR M20-NP	M 20 x 1.5	24.00	20.00	1.20	50	1736240000
GWDR M25-NP	M 25 x 1.5	30.00	25.00	1.50	50	1736250000
GWDR M32-NP	M 32 x 1.5	42.00	32.00	1.50	50	1736260000
GWDR M40-NP	M 40 x 1.5	52.00	40.00	1.50	20	1736270000
GWDR M50-NP	M 50 x 1.5	63.00	50.00	1.50	20	1736280000
GWDR M63-NP	M 63 x 1.5	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

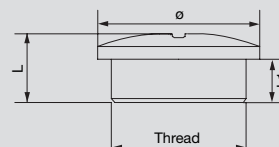
Note

Further versions on request

Sealing plugs - Plastic



Plastic sealing plugs with cross-heads are used to seal surplus threaded holes and to maintain the IP protection degree.



Technical data

Material / Colour	Polyamid 6 (PA6 - GF30) / RAL 7035
Temperature range	-40 °C...100 °C
Degree of protection	IP 54
Degree of protection with thread gasket	IP 65
Flammability rating	V-2

Note Optional sealing ring

Ordering data

Type	Thread	L	L1	Head Ø	TRQ BO, min.	TRQ BO, max.	Qty.	Order No.
metric								
VP M12 K54	M 12 x 1.5	10	6.00	15.00	0.50	0.50	100	1776930000
VP M16 K54	M 16 x 1.5	11.5	7.00	19.00	0.50	0.50	100	1776920000
VP M20 K54	M 20 x 1.5	12.5	7.50	22.00	1.00	1.00	100	1776910000
VP M25 K54	M 25 x 1.5	15	11.00	27.00	1.00	1.00	100	1776900000
VP M32 K54	M 32 x 1.5	16	11.00	34.00	1.00	1.00	100	1776940000
VP M40 K54	M 40 x 1.5	18	12.00	42.00	2.00	2.00	50	1776950000
VP M50 K54	M 50 x 1.5	20	13.00	52.00	2.00	2.00	25	1776960000
VP M63 K54	M 63 x 1.5	20	14.00	65.00	2.50	2.50	50	1776970000
PG								
VP 7-K54	PG 7	8	6.00	15.00	0.50	0.50	50	1719250000
VP 9-K54	PG 9	9	6.00	19.00	0.50	0.50	100	0294760000
VP 11-K54	PG 11	10.5	6.50	22.00	0.50	0.50	100	0294860000
VP 13.5-K54	PG 13.5	9.5	6.00	25.00	1.00	1.00	100	0294960000
VP 16-K54	PG 16	9.5	6.00	27.00	1.00	1.00	100	0295060000
VP 21-K54	PG 21	11	8.00	33.00	1.00	1.00	100	0295160000
VP 29-K54	PG 29	12	8.00	44.00	1.00	1.00	50	0501160000
VP 36-K54	PG 36	15	10.00	55.00	2.00	2.00	25	0501260000
VP 42-K54	PG 42	16	10.00	62.00	2.00	2.00	10	0501360000
VP 48-K54	PG 48	16	12.00	69.00	2.50	2.50	5	1719260000

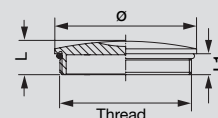
Note Further versions on request

Sealing plugs

Sealing plugs - Brass - Nickel-plated



Brass sealing plugs with cross-heads are used to seal surplus threaded holes and to maintain the IP protection degree.



Technical data

Material	Brass, nickel-plated
O-Ring	NBR
Temperature range	-30 °C...100 °C
Degree of protection with thread gasket	IP 68

Note

Ordering data

Type	Thread	L	L1	Head Ø	TRQ BO, min.	TRQ BO, max.	Qty.	Order No.
metric								
VP M12-MS65	M 12 x 1.5	7.4	5.00	14.00	8.00	8.00	100	1777720000
VP M16-MS65	M 16 x 1.5	8	5.00	18.00	10.00	10.00	100	1777730000
VP M20-MS65	M 20 x 1.5	9.4	6.50	22.00	12.00	12.00	100	1777740000
VP M25-MS65	M 25 x 1.5	10.8	7.00	28.00	12.00	12.00	100	1777750000
VP M32-MS65	M 32 x 1.5	11.6	8.00	35.00	18.00	18.00	50	1777760000
VP M40-MS65	M 40 x 1.5	12.3	8.00	44.00	18.00	18.00	50	1777770000
VP M50-MS65	M 50 x 1.5	15	9.00	54.00	20.00	20.00	25	1777780000
VP M63-MS65	M 63 x 1.5	18	10.00	67.00	20.00	20.00	10	1777790000
PG								
VP 7-MS65	PG 7	8	5.00	15.00	12.50	12.50	100	0521600000
VP 9-MS65	PG 9	8	5.00	18.00	15.20	15.20	100	0294700000
VP 11-MS65	PG 11	8	5.00	20.00	18.60	18.60	100	0294800000
VP 13.5-MS65	PG 13.5	9.5	5.50	22.00	20.40	20.40	100	0294900000
VP 16-MS65	PG 16	9	5.50	24.00	22.50	22.50	100	0295000000
VP 21-MS65	PG 21	11	6.00	30.00	28.30	28.30	100	0295100000
VP 29-MS65	PG 29	12	8.00	40.00	37.00	37.00	50	0501100000
VP 36-MS65	PG 36	15	9.00	50.00	47.00	47.00	25	0501200000
VP 42-MS65	PG 42	16	10.00	57.00	54.00	54.00	10	0501300000
VP 48-MS65	PG 48	16	10.00	64.00	59.30	59.30	5	1719270000

Note

Further versions on request

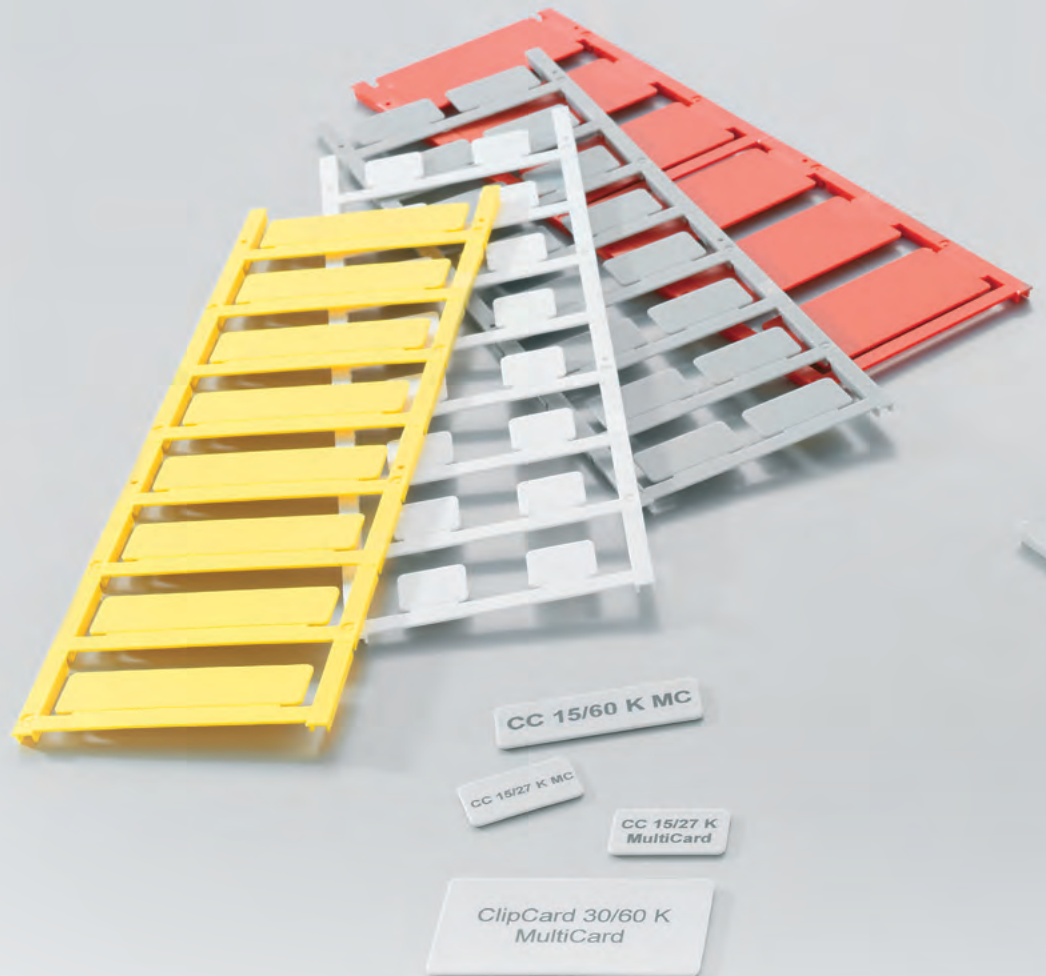
Identification systems

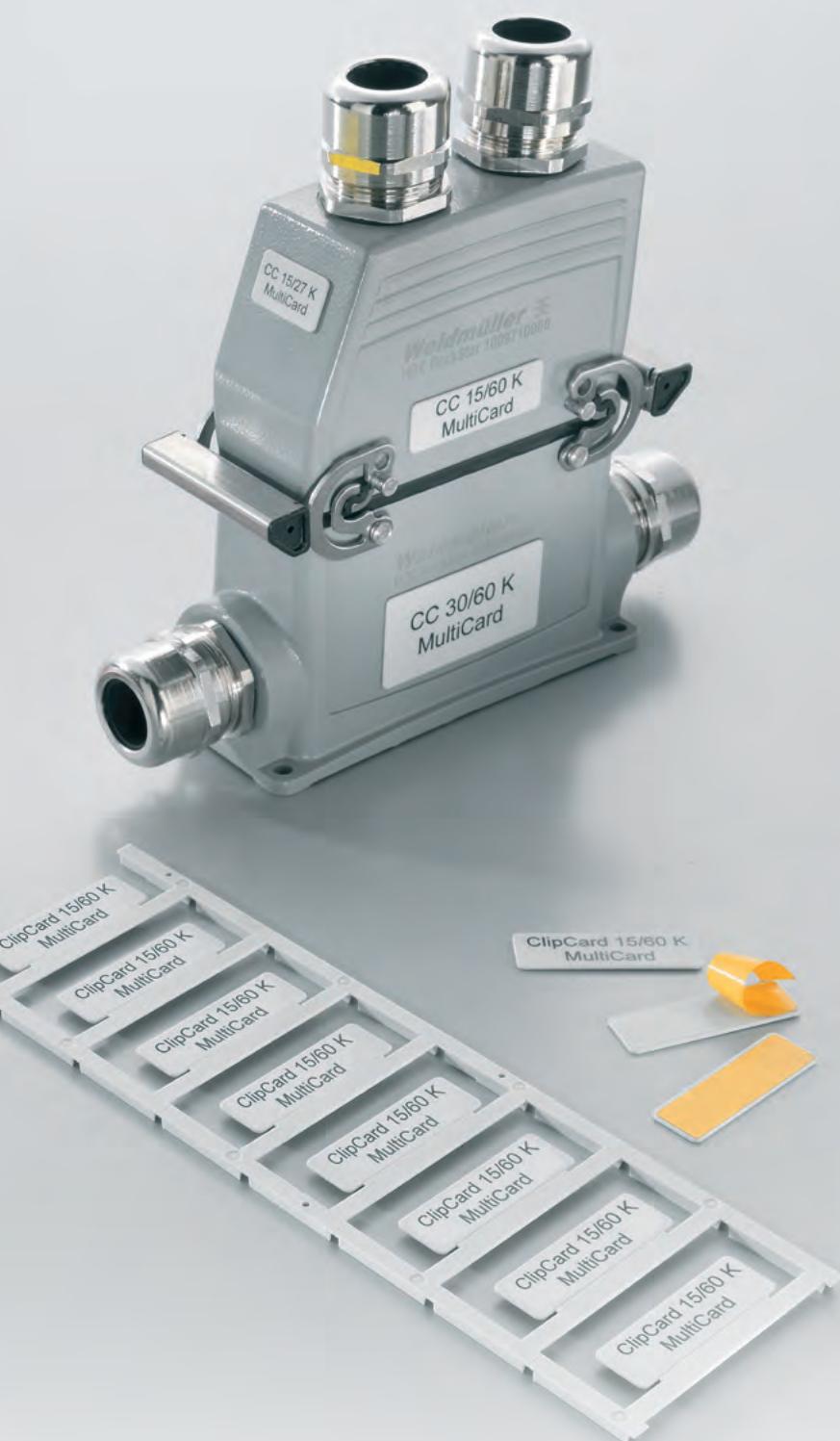
Identification systems	Introduction	M.2
	Markers	M.4
	Printers	M.10
	Software	M.15

Identification systems

For over 25 years, the Weidmüller brand has been a symbol of innovative marking and printing systems – which have included software and services that are perfectly adapted to work in harmony with one another. As technical and market leaders, we are committed to technology advancement and continuous improvement. Our products establish standards and help to bring efficiency and safety to the increasingly complex production process.

The new PrintJet PRO printer is part of a unique concept which involves the optimal integration of hardware, software and service. Everything comes from a single source and is optimally tuned to work together. With all products working in harmony, you will achieve a new perspective on the marking and labelling of connectors, wires, cables and devices. Whether a small business or large corporation – the system provides the proper modules for any need, including the labelling of heavy-duty connectors and cable assemblies.





Markers



No needs or requirements remain unfulfilled: with over 200 variants and consistent expansion of the MultiCard line. And when necessary we will develop a customised solution with you together.

Printer



The PrintJet PRO leads the way, defining a new level of high performance and innovation – easy to operate and low maintenance.

Software



Import, edit and manage data. Our M-Print® PRO software includes performance modules for the entire range of applications – from the CAE workstation to actual implementation.

Markers

ESG



The ESG is our proven marker in MultiCard-format. The result is an all-purpose, superior-quality adhesive marker with a high-contrast appearance that is perfect for connector housings.

ESG - blank

Technical specification

UL 94 flammability rating	V2
Min. temperature, continuous	-40 °C
Max. temperature, continuous	100 °C
Material	Polyamide 66

Ordering data

Type	Application	Width/Length	Qty.	Order No.
ESG 6/15 K MC white	self-adhesive	15 mm/6 mm	200	1880100000
ESG 6/15 K MC yellow	self-adhesive	15 mm/6 mm	200	1880130000
ESG 6/17 K MC white	self-adhesive	17 mm/6 mm	200	1880120000
ESG 6/17 K MC yellow	self-adhesive	17 mm/6 mm	200	1880110000
ESG 9/11 K MC white	self-adhesive	11 mm/9 mm	200	1857440000
ESG 9/17 K MC white	self-adhesive	17 mm/9 mm	200	1674760000
ESG 9/17 K MC yellow	self-adhesive	17 mm/9 mm	200	1753500000

ESG - Custom printing

Ordering data

Type	Application	Width/Length	Qty.	Order No.
ESG 6/15 K MC	self-adhesive	15 mm/6 mm	40	1880090000
ESG 6/17 K MC	self-adhesive	17 mm/6 mm	40	1880080000
ESG 9/11 K MC	self-adhesive	11 mm/9 mm	40	1857450000
ESG 9/17 K MC	self-adhesive	17 mm/9 mm	40	1674770000

SM



The SwitchMark marker has been designed for labelling command and signalling devices. The tags are mounted using the attached adhesive film. Customised tags can be created with the PrintJet or MCP Plus plotter printing systems.

- Users can quickly produce markers to suit their needs.
- No need to stock expensive standard tags.
- Hardwearing printing quality with the PrintJet which can be used as a substitute for engraving.
- We recommend the ETO SM protective film for extreme applications.

SM - blank

Technical specification

Material	Polyamide 66, halogen-free
UL 94 flammability rating	V2
Min. temperature, continuous	-40 °C
Max. temperature, continuous	100 °C



Ordering data

Type	Length (mm)	Qty.	Order No.				
			white	silver	grey	red	yellow
SM 22/22 K MC	22	80	1877570000	1877590000	1014650000		1131830000
SM 27/8 K MC	8	80	1812630000	1771930000	1079480000		1131820000
SM 27/12.5 K MC	12.5	80	1699880000	1713720000	1027830000		1131810000
SM 27/18 K MC	18	80	1707270000	1713760000	1073340000	1906120000	1915340000
SM 27/27 K MC	27	60	1783000000	1782990000	1079520000		1131800000
SM 18/9.5 K MC	9.5	200	1248580000		1248610000		1248590000
SM 19/42 K MC	19	40	1248620000		1248640000		1248630000

SM - Custom printing

Ordering data

Type	Length (mm)	Qty.	Order No.	
			Colour and print details	
SM 27/8 K	8	80	1713690000	
SM 27/12.5 K	12.5	80	1699890000	
SM 27/18 K	18	80	1707280000	
SM 22/22 K	22	80	1877580000	
SM 27/27 K	27	60	1783010000	
SM 18/9.5 K MC	9.5	40	1248550000	
SM 19/42 K MC	19	8	1248560000	



SM - protective film

Technical specification

Material	Polyester film
UL 94 flammability rating	HB
Min. temperature, continuous	-20 °C
Max. temperature, continuous	80 °C
Colour	transparent

Ordering data

Type	Length (mm)	Width (mm)	Labels per sheet	Qty.	Order No.
ETO SM 27/8	8	27	165	1	1720570000
ETO SM 27/12.5	12.5	27	100	1	1720580000
ETO SM 27/18	18	27	112	1	1720590002
ETO SM 22/22	22	22	117	1	1880720000
ETO SM 27/27	27	27	70	1	1805840000

Markers

ClipCard



ClipCard device markers in MultiCard format are an alternative to engraving. This product line is used to mark electrical installations and switching facilities. The tried-and-tested MultiCard format means that printing can be carried out using the PrintJet or Plotter MCP.

- Hardwearing printing quality with the PrintJet as a substitute for engraving.
- Self-adhesive tags

Technical data

Material	Polyamide 66, halogen-free
UL 94 flammability rating	V2
Temperature range °C	-40 ... 60

ClipCard - blank



Ordering data

Type	Width x Length (mm)	Qty.	Order No.				
			white	silver	grey	red	yellow
CC 15/17 K MC	15 x 17	80	1876590000	1876580000	1079540000	1288320000	1131920000
CC 15/27 K MC	15 x 27	80	1876640000	1876780000	1079560000	1288330000	1131910000
CC 15/49 K MC	15 x 49	40	1877220000	1877270000	1079580000	1288380000	1131970000
CC 15/60 K MC	15 x 60	40	1877310000	1877360000	1072650000	1288340000	1131890000
CC 30/60 K MC	30 x 60	30	1934390000	1934330000	1072680000	1085430000	1078320000
CC 85/54 K MC	54 x 85	10	1138430000		1138450000	1288390000	1138440000

ClipCard - Custom printing



Ordering data

Type	Width x Length (mm)	Qty.	Order No.				
			Colour and print details				
CC 15/17 K MC	15 x 17	16	1876600000				
CC 15/27 K MC	15 x 27	16	1876750000				
CC 15/49 K MC	15 x 49	8	1877230000				
CC 15/60 K MC	15 x 60	8	1877320000				
CC 30/60 K MC	30 x 60	6	1934370000				
CC 85/54 K MC	54 x 85	2	1138470000				

M

ClipCard - protective film



Ordering data

Type	Labels per sheet	Qty.		Order No.	
ETO CC 15/17	228	1			1880850000
ETO CC 15/27	133	1			1880810000
ETO CC 15/49	76	1			1880830000
ETO CC 15/60	57	1			1880840000
ETO CC 30/60	27	10			1934440000

LM MT 300 – self-adhesive polyester labels



- Suitable for A4 laser printer
- Abrasion-resistant
- High heat resistance
- For marking all kinds of switchgear and equipment
- Can also be written on with a ballpoint pen of the STI marking pen

LM MT 300

Technical specification

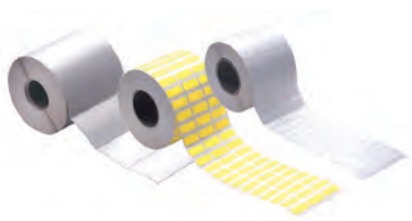
Material	Polyester, PVC-free
UL 94 flammability rating	HB
Min. temperature, continuous	-45 °C
Max. temperature, continuous	150 °C

Ordering data

Type	Length (mm)	No. per pcs	Qty.	Order No.		
				white	yellow	silver
LM 12/6	12	322	10		1882910000	
LM 15/4.63	15	627	10	1724141044	1724141687	1724140001
LM 15/6	15.2	484	10	1686361044	1686361687	1686360001
LM 15/9	15	186	10		1882890000	
LM 17x6	17	10	10		1835820000	
LM 17/9	17.8	341	10	1724151044	1724151687	1724150001
LM 18/6.5	18	290	10	1749321044	1749321687	1749320001
LM 19.05x6.3	19.05	10	10		1835830000	
LM 20/8	20.3	264	10	1686381044	1686381687	1686380001
LM PA 20/8	20.3	264	10		1874860000	
LM 25.4/12.7	25.4	147	10	1686391044	1686391687	1686390001
LM 26/10	26	156	10	1686401044	1686401687	1686400001
LM 26.5/17.5	26.5	10	10			1784340000
LM 27/8	27	198	10		1861510000	
LM 27/18	27	90	10			1873810000
LM 30/20	30	78	10	1724161044	1724161687	1724160001
LM 40/6	40	90	10	1760461044		
LM 56/22	56	36	10	1686421044	1686421687	1686420001
LM 60/36	60	21	10	1686431044	1686431687	1686430001
LM 89/34	89	16	10	1003400000		
LM 105/105	105	4	10			1975160000
LM 105/148	105	4	10	1724171044	1724171687	1724170001
LM 202/12	202	22	10		1915320000	
LM 210/148	210	2	10	1724181044	1724181687	1724180001
LM 210/297	210	1	10	1686441044	1686441687	1686440001

Markers

THM – ThermoMark labels



ThermoMark labels offer brilliant printing quality thanks to thermal transfer technology. Different materials and the user-friendly printing system of THM Basic 300 plus M-Print Pro optimises every marking requirement.

- High-quality polyester labels in various colours available,
- Automatic positioning of the labels in the printer for perfect centring of the printing on every label.
- The THM Basic 300 printer ensures hardwearing printing output.

THM MT 30x - Polyester labels

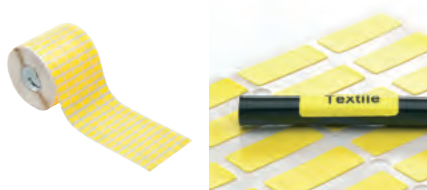
Technical specification

Material	Polyester film
UL 94 flammability rating	HB
Min. temperature, continuous	-40 °C
Max. temperature, continuous	150 °C
Form of supply	Rolls, perforated

Ordering data

Type	Length x Width (mm)	No. per reel	Qty.	Order No.		
				white	yellow	silver
THM 8/8	8x8	10000	1	1954070000		
THM 15/4	15x4	10000	1		1072690000	
THM 15/5.08	15x5.08	10000	1		1964130000	
THM 15/6	15x6	10000	1	1753231044	1753231687	1753230001
THM 16/7	16x7	10000	1		1852520000	
THM 17x8	17x8	10000	1		1027620000	
THM 17/9	17x9	10000	1	1968130000	1856650000	
THM 18/6	18x6	10000	1	1753271044	1753271687	1753270001
THM 18/9	18x9	10000	1	1753251044	1753251687	1753250001
THM 20/8	20x8	10000	1	1753241044	1753241687	1753240001
THM 25.9/7.1	25.9x7.1	5000	1	1891770000		
THM 25/12	25x12	10000	1	1751751044	1751751687	1751750001
THM 26/10	26x10	10000	1	1751761044	1751761687	1751760001
THM 26.5/17.5	26.5x17.5	10000	1			1770090000
THM 30/20	30x20	6000	1	1753261044	1753261687	1753260001
THM 30/52	30x52	2000	1			1014680000
THM 32/9	32x9	6000	1	1751771044		1751770001
THM 38/17	38x17	4000	1	1011610000		
THM 38/19	38x19	2000	1	1751801044	1751801687	1751800001
THM 38/32	38x32	1000	1			1862350000
THM 45/23	45x23	2000	1	1751811044	1751811687	1751810001
THM 57/27	57x27	2000	1			1852540000
THM 65/35	65x35	1000	1	1751831044	1751831687	1751830001
THM 89/60	89x60	1000	1			1003410000
THM 101/48	101x48	500	1	1751821044	1751821687	1751820001
THM 101/74	101x74	500	1		1061810000	1762960001
THM 101/150	101x150	250	1			1778170000

M



These textile labels, are made of very flexible cotton fabric which come on sheet rolls specifically for use on THM Basic 300 printer. This means a thicker adhesive layer is possible - just like labels on A4 sheets. Both the flexible material and the thicker adhesive layer offer stronger adhesion and allows the use for angled or round objects such as cables or fuses.

THM GEW - Textile labels

Reels

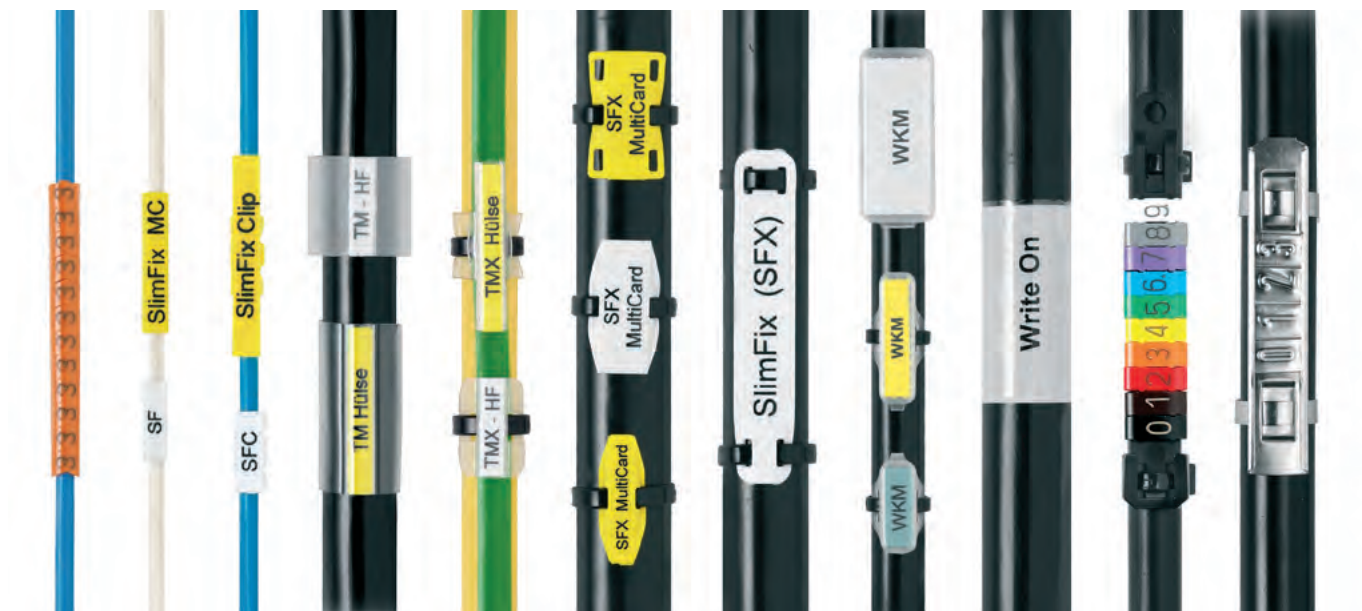
Technical specification

Material	Vinyl coated cotton fabric
Min. temperature, continuous	-29 °C
Max. temperature, continuous	80 °C
Form of supply	Rolls, perforated

Ordering data

Type	Length x Width (mm)	No. per reel	Qty.	Order No.		
				white	yellow	silver
THM GEW 15/6	15x6	10000	1	1059780000	1059790000	
THM GEW 17/9	17x9	10000	1	1059800000	1059810000	
THM GEW 18/6	18x6	10000	1	1059820000	1059830000	
THM GEW 18/9	18x9	10000	1	1059840000	1059850000	
THM GEW 20/8	20x8	10000	1	1059870000	1059880000	
THM GEW 30/8	30x8	10000	1		1114450000	

Wire and cable markers



Weidmüller's range of wire and cable markers provides users with solutions for a wide variety of applications. The applications range from thin wires through to cables with large external diameters. Amongst others, the assortment includes combination systems with individual tags, transparent sleeves and markers that are fastened using cable ties.

Open and closed, printed or blank markers for individual printing are available.

Halogen-free and practically free of pollutants, Weidmüller's wire and cable markers comply with both European and in-house standards of well-known system manufacturers.

Systems are available for:

- Clip-on ready-to-use printed markers according to individual marking requirements
- Marking by digits from a standard set of characters
- Combination of individual pre-printed digits to form a character code
- Customer prints utilising one of the following options: SMark-Laser printer, PrintJet printer, laser printer, plotter, thermal transfer, Matrix printer or pen.

A sample selection is available in Weidmüller's sample bag of wire and cable markers: order no. **1640420000**.

Owing to the sheer number of possible applications and environmental influences such as moisture, radiation, gases or heat/cold to which the products can be exposed, Weidmüller accepts no liability for the suitability of products in all customer applications. Suitability tests for specific applications must therefore be carried out by the customer. However, Weidmüller will be happy to provide help and advice upon request..

Due to the different identification systems available on the market, we wish to point out that Weidmüller does not guarantee industrial identification products if the Weidmüller components (markers – transparent sleeves – ink/toner/colour ink ribbons – printing systems) are combined with third-party products, unless Weidmüller has explicitly agreed the purpose of an individual application.

Printers

PrintJet PRO

The **PrintJet PRO** inkjet printer prints markers for electrical connectivity. These markers can be used for clear equipment identification on devices, cables and connectors. The labelling makes servicing, maintenance and troubleshooting much easier. Water-based ink is used for black or spot colour printing. The print is crystal clear and resistant to environmental influences.

The **PrintJet PRO** prints plastic markers in **MultiCard** format. In combination with the userfriendly **M-Print® PRO** software and the attached loader, the printer becomes an essential part of production. The inkjet process being used, the subsequent fusing, as well as the printer cartridge and ink have all been specially adapted by Weidmüller for industrial use. The printer has excellent long-term use capabilities, thanks to its integrated loader.

- Top-quality, resistant printing
- Spot colour print
- Perfect for constant use
- Integrated loader for 20 MultiCards
- Ideal for large quantities
- The display shows all relevant information
- Flexible connection options, from LAN ports to USB ports



Technical data

PrintJet PRO	
Type	PrintJet PRO
Application	Prints MultiCard markers
Technology	Inkjet process
Print quality	600 / 1,200 dpi
Printer drivers	Windows® 2000/XP/VISTA/7
Print software	M-Print® PRO
System requirements	Windows® 2000/XP/VISTA/7
Feed	Integrated loader
Fusing	Thermal fusing
Interface	USB, LAN
Power supply	AC 230 V or AC 115 V
Location	Office conditions
Ambient temperature	20 °C to 35 °C
Dimensions (L x W x H)	1060 x 500 x 310 mm
Weight	33 kg
Cartridge system	Ink cartridge, CMYK (up to 1.000.000 characters, Arial font size 6)
Scope of supply	PrintJet PRO, power cable, printer drivers, manuals (CD), Ink tank starter set colour, USB cable, M-Print® PRO software

Ordering data

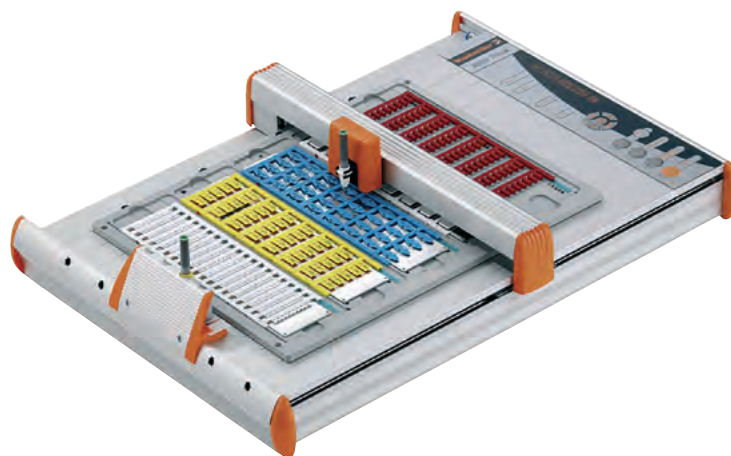
PrintJet PRO

Type	Order No.	
PrintJet PRO 115V	1024050000	
PrintJet PRO 230V	1001180001	
Accessories		
PJ PRO TNTK INK SET COL	Ink tank starter set, colour	1027110000
PJ PRO TNTK INK K	● Ink tank Black	1027040000
PJ PRO TNTK INK C	● Ink tank Cyan	1027050000
PJ PRO TNTK INK M	● Ink tank Magenta	1027060000
PJ PRO TNTK INK Y	● Ink tank Yellow	1027070000
PJ PRO TNAW	waste pad	1024140000

MCP Plus

The plotter **MCP Plus** complements the Weidmüller MultiCard concept. It is suitable for smaller quantities of markers and when only part of a MultiCard is to be printed on. The special positioning frame for five MultiCards increases productivity by 20 % over comparable systems. With the positioning frame for SlimFix markers sizes 4 to 6, printing on more than 160 MultiCard types for terminals, cables, wires and equipment is possible. Labels are printed with the MCP-Label positioning frame. Suitable for use with the Weidmüller **M-Print® PRO** software.

- 2 positioning frames for more than 160 MultiCard types
- MultiCards easily fitted into the frame
- Easy to use with partly used MultiCards
- Automatic pen activation function
- Safe storage of the plotter pens



Technical data

Type	MCP Plus
Application	printing of MultiCard markers and labels
Technology	plotting technique
Print software	M-Print® PRO
System requirements	Windows® 2000/XP/Vista/7
Interface	Parallel Centronics / USB
Power supply	AC 230/AC 115 V
Feed	manual
Location	office conditions
Ambient temperature	10 °C - 35 °C
Dimensions (L x W x H)	660 x 440 x 125 mm
Weight	approx. 8 kg
Scope of supply	MCP Plus with Centronics cable, USB cable, power pack (100-240 V AC/50-60 Hz), Euro and US plugs, MultiCard positioning frame, 0.25 P-Ink plotter pen, printer driver, M-Print® PRO software and manual

Ordering data

Type	MCP Plus	Order No.
MCP Plus plotter set		192500000

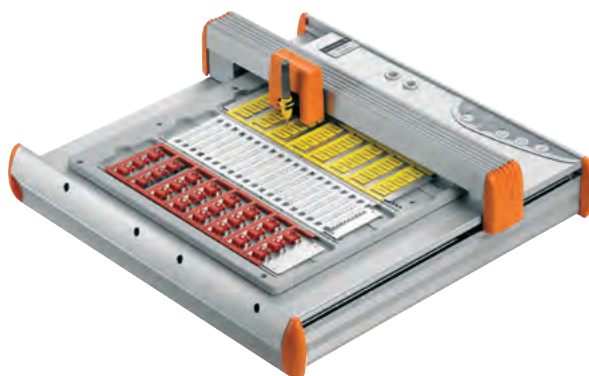
Printers

MCP Basic plotter

The **MCP Basic** plotter is a flexible and portable solution that allows you to print your labels on-site quickly and easily.

The **MCP Basic** is suited for printing small-scale labelling jobs, partial labels, or remaining quantities

- Small space-saving flat-bed plotter
- Positioning frame for 3 MultiCards
- Easily filled with MultiCard sheets
- Positioning frame for SlimFix, sizes 4 to 6 and a label positioning frame optionally available
- Works together with Weidmüller's **M-Print® PRO** software



Technical data

Type	MCP Basic
Application	Printing MultiCard markers and labels
Technology	plotting technique
Plotting speed	max. 40 mm/s
System requirements	Windows® 2000/XP/VISTA/7
Software	M-Print® PRO
Interfaces	USB
Voltage supply	100-240 V AC, 50-60 Hz
Voltage supply	Via external power supply unit with interchangeable adapters
Feed	manual
Location	office conditions
Ambient temperature	10°C – 35°C
Dimensions (L x W x H)	440 x 440 x 125 mm
Weight	6 kg
Scope of supply	MCP Basic plotter, printer driver, power cord, USB cable, M-Print® PRO software, 0.25 P-Ink plotter pen, MultiCard positioning frame, power supply unit (100-240 V AC / 50-60 Hz), Euro and US plugs, user manual on CD, hand trolley-case

Ordering data

MCP Basic

Type	Order No.
MCP Basic	113940000

MCP



MCP positioning frames

Ordering data

Type	for	Qty.	Order No.
MCP AP PLUS	MultiCards	1	1924360000
MCP AP BASIC	MultiCards	1	1139880000
MCP AP SF 4-6	SlimFix sizes 4 to 6	1	1924310000
MCP AP Labels	Labels	1	1924370000

MCP plotter pens

Type	for	Qty.	Order No.
Plotter Pen 0.18	Reusable pen	1	1768570000
Plotter Pen 0.25	Reusable pen	1	1768540000
Plotter Pen 0.25 P-Ink	Disposable pen 8 ml	1	1920640000
Plotter Pen 0.35	Reusable pen	1	1768550000
Plotter Pen 0.35 P-Ink	Disposable pen 8 ml	1	1920650000
Plotter Pen 0.50	Reusable pen	1	1768560000
Plotter Pen 0.50 P-Ink	Disposable pen 8 ml	1	1005710000
Plotter Pen 0.70	Reusable pen	1	1011440000
Plotter Pen 0.70 P-Ink	Disposable pen 8 ml	1	1011450000

MCP ink

Type	Contents	Qty.	Order No.
P- Ink	30 ml	1	1924340000
Ink 2000	25 ml	1	1772120000

MCP miscellaneous

Type	Contents	Qty.	Order No.
P cleaner	30 ml	1	1924330000
Cleaner Clean 2000	25 ml	1	1772130000
Inlay for MCP		1	1935130000
Inlay SFC 3		1	1058090000
MCP adhesive strips		5	1924320000
MCP Plus cover		1	1924350000
MCP TP-KOF Basic	Trolley MCP Basic	1	1139890000



Accessories - STI pen

Ordering data

Type	Qty.	Order No.
Adapter aluminium STI pen	1	1762440000
STI pen SW	10	0508401694

The STI-S felt tip pen is suitable for labelling blank Weidmüller marking products. It can be used for handwritten labels or, in conjunction with the STI-S adapter, for a plotter printout. A black, waterproof ink is used.

Printers

THM Basic printer

The **THM Basic 300** printer uses thermal transfer technology for industrial printing of labels. Its space-saving design makes it perfect for office use. The printer is well suited for labelling a variety of materials and delivers a brilliant, quality print. The user-friendly system is operated together with the **M-Print® PRO** software.

- Small space-saving thermal-transfer printer
- Suitable for printing a variety of roll-packaged labels
- A variety of interfaces are available
- Works together with Weidmüller's **M-Print® PRO** software



Technical data

Type	THM Basic 300
Application	Printing of labels
Technology	Thermal transfer
Printing speed	75 mm/s
Printing quality	300 dpi
Printer drivers	Windows® 2000/XP/VISTA/7
Software	M-Print® PRO
Interface	Parallel Centronics / USB / Seriell RS 232 C / Ethernet 10/100 Base
Power supply	100~240 V
Location	office conditions
Ambient temperature	10 °C – 40 °C
Dimensions (H x L x W)	200 x 329 x 256 mm
Weight	3,5 kg
Scope of supply	ribbon (HiRes), printer drivers, power cable, USB cable, M-Print® PRO software, manual (CD)

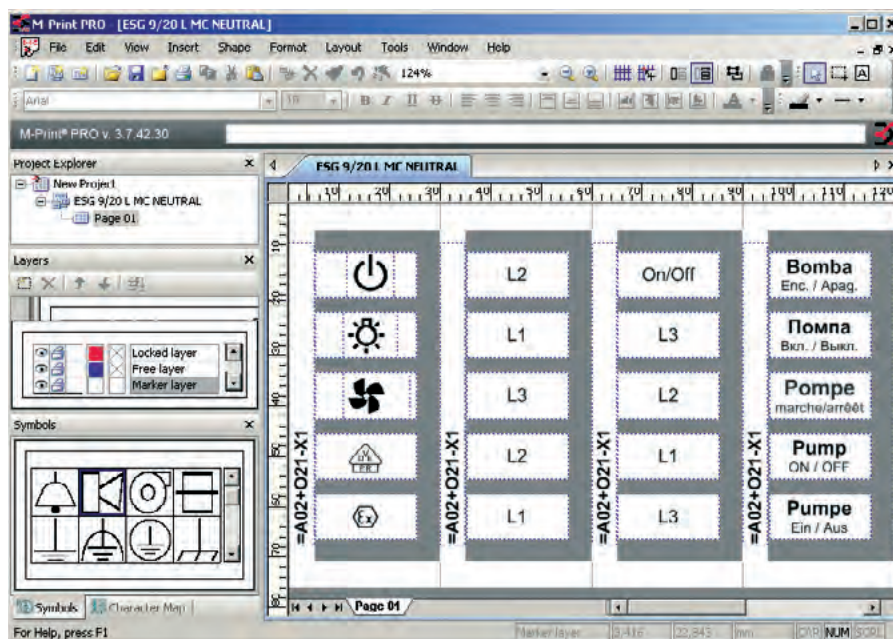
Ordering data

			THM Basic
Type			Order No.
THM Basic 300			1276230000
Printing foil	Material	Width (mm)	
HiRes ribbon, 280 m	Resin	110	1790650000

M-Print® PRO Label Designer

Print and ordering software for markers and labels

M-Print® PRO is a professional software for printing and ordering Weidmüller markers and labels under Windows®. This software helps you to optimise your processes for marking electrical equipment. You can design, print and order your marking materials effortlessly, professionally and quickly: includes texts, frames, lines, graphics, barcodes, serial numbers and photos.



Technical data

Here is an overview of the main functions

Integrated product catalogue for all labels and markers, including images and links to the relevant web pages and product data sheets

Custom formatting of individual text characters (RTF)

Perform copy-and-paste functions with texts and their formats

Supports UNICODE for foreign-language texts, such as Russian, Chinese, Polish, etc.

Enter data on labels or worksheet, or directly in Microsoft® Excel

Numeric and alphanumeric counts and sequences

Extensive range of image formats (*.bmp, *.wmf, *.png, *.ico, *.jpeg, *.tif, *.gif)

Image library including all the important symbols used in electrical engineering

Permanent print preview: see how the printout will look during the design phase

Supported output devices: PrintJet Pro, PrintJet II, SMark laser, MCP plotter, THM and standard printers with Windows® drivers

Assign product to specific printer; for example, ESG 9/20 to PrintJet, LaserMark to laser printer, etc.

Optimum and rapid adjustment of the output devices

Imports data from CAE systems

Import assistant to create your own import filter for numerous file formats (*.txt, *.csv, *.xml etc.)

Markers and labels can be designed in as many levels as required

Interface to RailDesigner®

Operating systems supported

WINDOWS® 2000/XP/VISTA/7

System requirements

RAM	> 256 MB
Processor	> Pentium III or comparable model
Graphics	> 800 x 600 pixels with 256 colours optimum: 1024 x 768 with 16-bit High Colour
Hard drive	> 90 MB free storage
Miscellaneous	mouse, keyboard, CD-ROM drive (to install the software)

M-Print® PRO is available in two editions:

- M-Print® PRO Standard Edition for professional printing results with all of Weidmüller's marking materials
- M-Print® PRO Advanced Edition for professional printing results with all of Weidmüller's marking materials plus labels to your own specification

Ordering data

M-Print® PRO

Type	Order No.
M-Print® PRO	1905490000
M-Print® PRO advanced	1905500000

Weidmüller Services

Weidmüller Services

RockStar® individual services	V.2
Bespoke services: best advice, best solutions	V.6
Digital support: RailDesigner®, Product Assistant for Distributor Housing, Online product catalogue, M-Print® PRO label designer	V.12

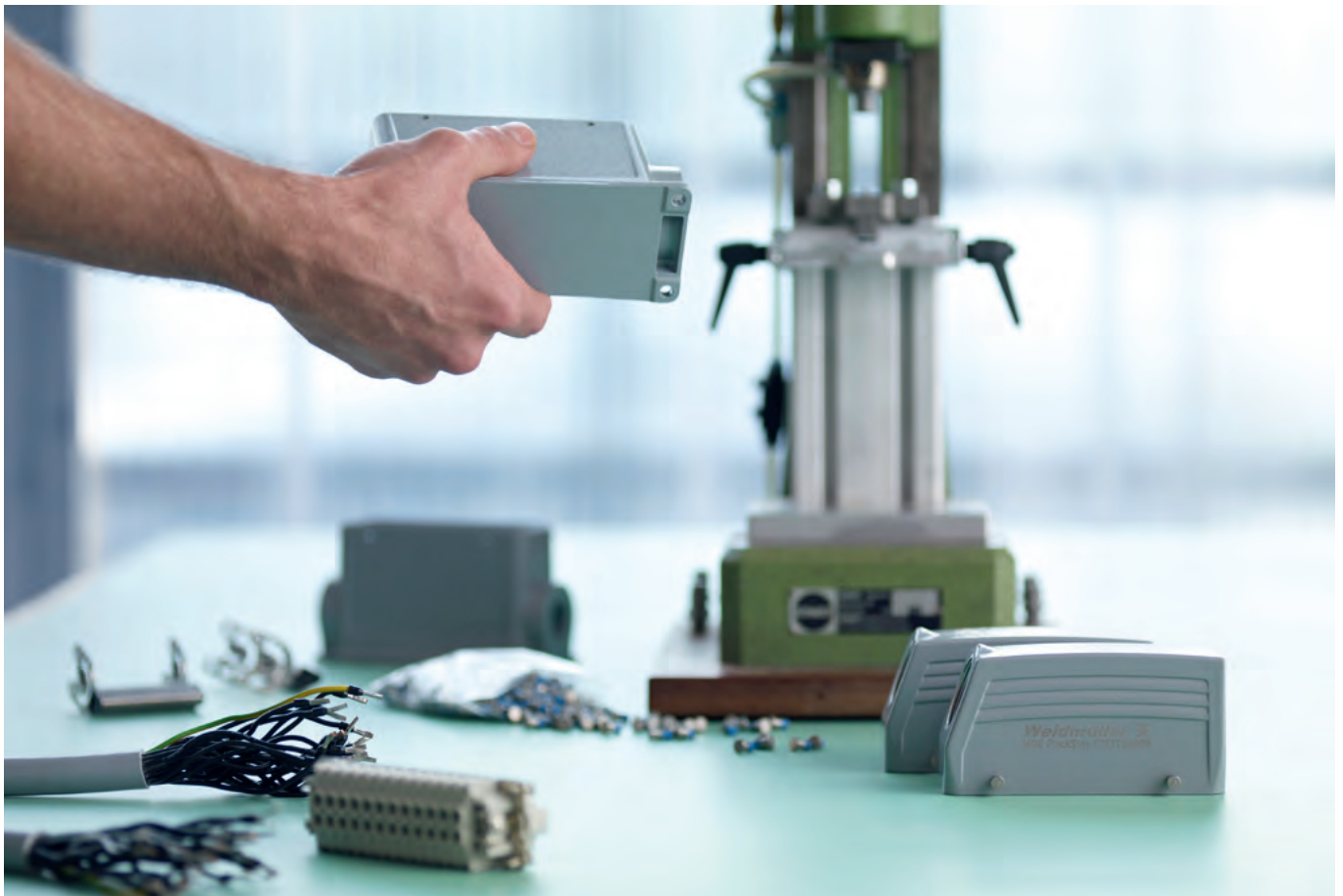
RockStar® individual services – Heavy duty connectors to match your specification

A wide array of options with RockStar®

RockStar® is a highly effective industrial, heavy duty connector range which has made “excellence” its minimum design standard. Now, all you have to do is decide how you wish to use this portfolio to your best advantage.

With our customer specific assembly service we can meet any of your requirements not covered by the standard RockStar® range. Do you need extra threads, special laser markings or a different RAL colour? No problem!

We will put everything you need together, exactly as specified by you - so that you end up with a custom solution that is guaranteed fit for purpose - completely pre-assembled, ready to use and with the power, dynamics and innovation you expect from all of our products.



Overview of services



Kitting

We can configure all individual connector components to meet your specific needs and provide you with a complete kit.

- One order number
- Demand-oriented delivery
- Minimal logistics costs



Housing colours

For large order quantities we are able to powder coat our RockStar® housings in the colour of your choice.

- Choice of numerous RAL colours
- Special colours on request
- Can be combined with customised laser marking



Housing adaptation

All of our housings can be designed to meet your specification needs.

- Inserting of holes and threads
- Enhanced wiring space
- You decide on the size, position and quantity of cable entries

Pre-assembled connectors

Looking for something extra? We are able to deliver ready-to-use connectors to meet your demands.

- You choose the type, length and number of cables
- Preparing, marking and connection of conductors
- Demand-based configuration from one single source



Laser marking of inserts

Laser marking is a unique service provided by Weidmüller.

- Connector inserts marked with your corporate logo, reference or individual article number
- Individual pole identification
- Wipe proof and UV resistant for durable markings



Laser marking of housings

Individualised housing markings offer you endless opportunities.

- Connector housings marked with your corporate logo, reference or individual article number
- Choose the type, size and position of the markings
- Wipe proof and UV resistant for durable markings



Application specific solutions – Your requirements are our motivation

Each industry has its own requirements calling for more and more individual solutions aside from standard products. Your new product might have to contend with severe conditions. Many applications are subjected to high mechanical strains – through vibration or directly applied forces. Extreme temperature conditions or the application in hazardous areas are further factors your product must be able to comply with. We offer you our competent and target-oriented support for the selection of ideal products for any application. Feel free to contact us!

Individual product development, customer-specific assembly or application-specific products that are ready for use – with an individual and perfect solution we want to help you to optimise working processes and to ensure your company's sustained efficiency today as well as for the future.

Individual product development

In co-operation with you we will develop individual and future-oriented products at the highest technological level – tailored to your application.

Customer-specific assembly

According to your specifications we use our great production expertise and our broad product portfolio to set up the solution to meet and exceed your requirements.

Application-specific products

Our cross-industrial solutions set standards: Set up for your application, instantly ready for use and available from stock.



Individual product development for your success

We have a passion for simple, innovative solutions

Together we will develop innovative and future-oriented products tailored to your application. Our philosophy is simple "one customer-one product". It is not the product that is the starting point, but you, your technical specifications and your requirements.

Lets Connect!

For the development of individual products, we will both need to contribute our experience and competencies. Our professional project managers will work closely with you - from the idea and design phase, via the development phase, to the implementation and production. We place our complete knowledge in the field of electrical connectivity, enclosure and sealing technology as well as signal conditioning at your disposal.

Benefit from a reliable partner:

- **Increasing the efficiency of your development and production processes**

The particular outsourcing of development and production of your components will shorten the time-to-market phase. It will minimise your efforts thus allowing you to concentrate on your core competences.

- **Taking benefit from our application and production know-how**

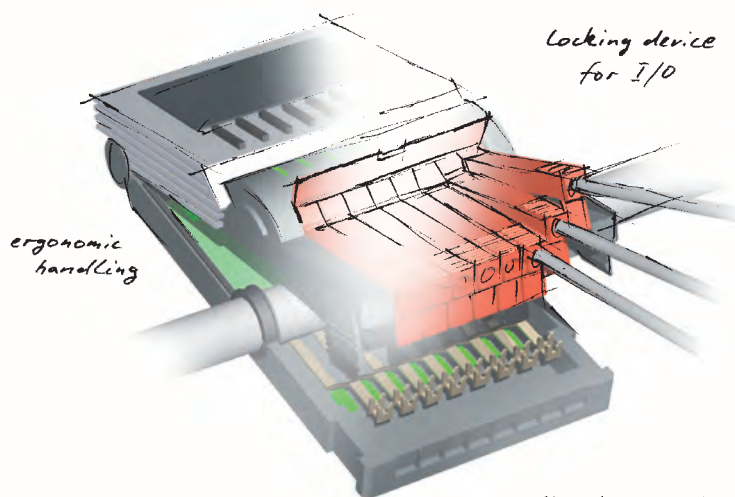
Take profit from the expertise of our application engineers and our specialists in the fields of connection technology, enclosure and surface technology as well as metal and plastic processing.

- **Increasing safety through professional project management**

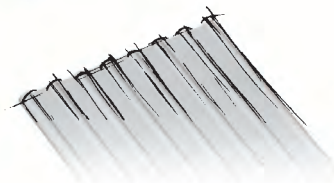
Through innovation workshops, feasibility studies and profitability analyses we define a requirement profile forming the basis for the further development process. This makes sure that you will decide for the best possible product.

*all technical
data achieved?*

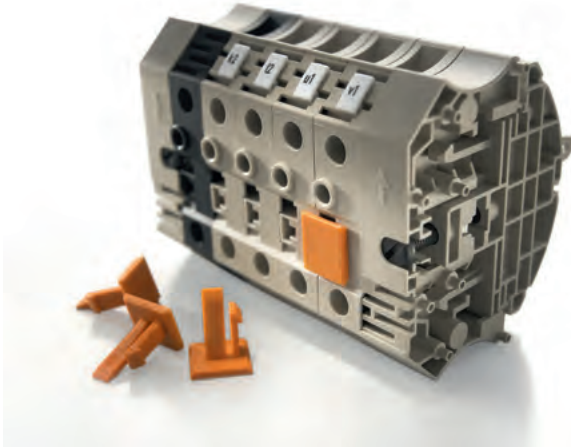
functional tests



VDE /UL approvals !!



Application specific products – solutions for industries and markets



Industries and applications often have similar or even identical requirements for products or product assemblies. Application specific products that are based on earlier realised solutions are now directly available from stock.

Your advantage: You get a suitable and cost efficient solution within a minimum of time!

Cross industrial solutions as standard

It is our aim to develop real solutions for you that offer the additional advantage of a truly flexible design. This means that an application specific product might have a supplementary input or a terminal you don't need. The small adaptations needs will be much cheaper than the complete unrolling of an individual job. Thus you cannot only save time but also money!



Take multiple profit:

- **High availability**

Application specific products are available from stock without delay. So you can rely on the delivery of your products in due time.

- **Advice from application engineers**

Take advantage of our application engineers' expertise. They develop real solutions with added value for your applications.

- **Supportive software**

Project planning and evaluation made easy, with our software solutions such as NetCalc, RailDesigner® or Softclinic.

- **Worldwide application centres**

We stay in constant dialogue with our application centres thus enhancing our application know how and being at your disposal anywhere you need us.



Customer specific assembly, tailored configuration



You want to bring costs down and increase your efficiency. You would like to fully concentrate on your core competences. You are looking for a partner who will set up intelligent solutions for you, suiting your special requirements. We will share our applications knowledge and capability to set up tailored solutions for you that are fast, flexible and economically sound.

We offer co-operative support and advice for all of your questions and together with you we will define the job assignment. As we continue the process, we will select the ideal components from our wide-ranging portfolio and bring them together to deliver you your tailored solution.

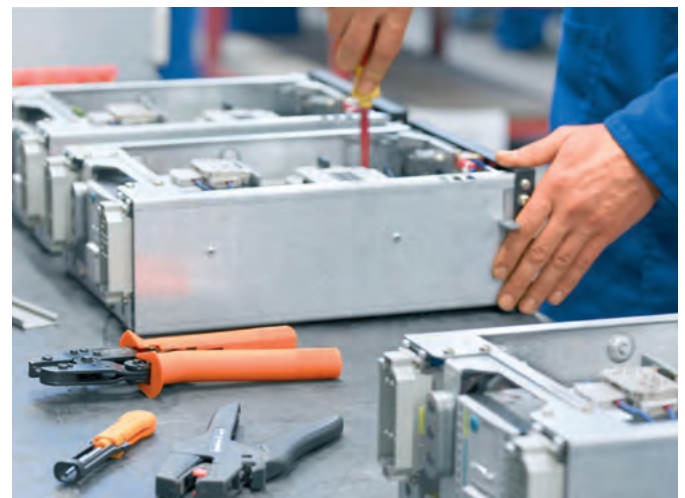


Highest level of professional production

Take advantage of our professional project managers and our extensive knowledge of production, for instance, in the ATEX area. We offer you a comprehensive portfolio of customer specific assemblies, from simple assembly to the modification of existing electronics products.

Our services include:

- Adaptation and assembly of enclosures for all IP protection classes
- ATEX solutions for hazardous areas
- Assembly of heavy duty connectors
- Assembly of terminal strips
- Customer specific electronics solutions
- Cable assembly



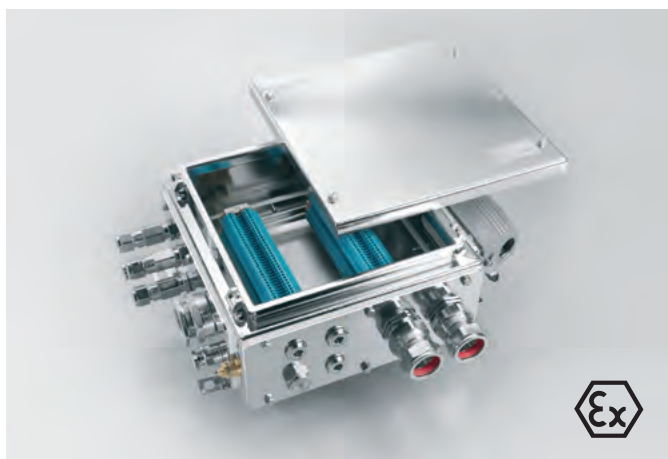
Take multiple profit:

- **Simplification of ordering and stockholding**
One solution – one item number! It will no longer be necessary to order single components. Article variety and stockholding will be reduced.
- **Professional assembly**
All individual components will be pre-assembled thus reducing your assembly time. This will save your time and money.

- **Less costs for documentation**
Our RailDesigner® software will facilitate the generation of parts lists or drawings.
- **Modern processing of enclosures**
Our CNC processing centres adapt the enclosures to suit your tailored solution.

Customer specific assembly – consultation, product, development and production all come from one source

Our application and manufacturing expertise has a significant influence and results in all areas of modern connection technology. Their participation is therefore integral to every solution.



Enclosures

Deliver protection and safety

- Enclosures for all IP protection classes
- ATEX enclosures for hazardous areas
- Placement of inspection glasses, drill holes and threads
- Elaborate machining operations like the milling of contours
- Class C5 welding, according to DIN 6700, for stainless steel and sheet steel enclosures
- Surface coating as and when required
- Individual device and system markers



Heavy duty connectors

Superior connection system

- Placement of drill holes and cable glands
- Equipped with plug-and-play components
- Wiring of subassemblies
- Cable assembly
- All housings are available with individual laser marking



Terminal strips

Configurations made to measure

- Machining of mounting rails
- Snapping components onto terminal rails
- Placement of cross connections
- Mounting of standard conductors
- Marking of terminals, devices, conductors and cables



Electronics

Individual solutions right from the start

- Modular terminal blocks, component plugs, snap on bases, enclosures for electronics: integration of relevant electronic components
- Snap-on base: Component carrier design or simple wiring of the modules
- Interface units
- Modification of existing electronic products: Modification of the circuitry or specific calibration
- Combination of components: Relays or optocouplers in combination with other components



Cable assembly

Our special service

- Pre cutting of cables and conductors
- Installation of
 - Heavy duty connectors
 - PCB connectors or DIN connectors
- Conditioning of wire ends
- Mounting of wire end ferrules and cable lugs
- Connection of conductors to terminal rails

RailDesigner®

A faster way to configure and order terminal strips



These days, time and cost efficiency are of the essence when it comes to working in planning and production. RailDesigner®, our free configuration and purchasing software, uses its virtual assembly of mounting rails (assembled or unassembled) to help you with the design of your own completely personal solution.

RailDesigner® brings you substantial benefits:

Less time required

It speeds up the process of acquiring quotations and placing orders because, for example, all processes can be initiated directly from the software. You configure your projects and the rest virtually takes care of itself!

User friendly operation

Any potential errors are prevented by automatic installation tips and clear project processing and management. So that you can plan your project realistically, RailDesigner® offers both 2D and 3D displays.

Wide selection from the current product portfolio

“You can easily download software updates for RailDesigner® from the internet. This means that you will always have access to the latest version of our product database.”

Project planning that is compatible with your software

Plan and design your projects easily using your usual CAE software. With the integrated interface, transferring data from your CAE system has never been so simple. You can export component lists and terminal strip designs in various formats. Marking data is automatically transferred to the M-Print® Pro labelling software.

Simple purchasing of terminal strips

Once you have completed the planning stages of your projects in RailDesigner®, you can choose to send all of your data to us by email. We then take over the assembly and deliver the required configuration to you, along with anything else that you still require for your project.

Download the software for free and discover the advantages to using RailDesigner® at www.raildesigner.de

Product assistant for distribution boxes and assemblies – The ideal solution, in the shortest time



You can easily and quickly select, combine and purchase the required components, all with the help of the Weidmüller product assistant for distribution boxes and assemblies. This means that you can quickly obtain your individual enclosure solution. Your solution may include the following components:

Empty enclosures without holes

Empty enclosures in various sizes of the Klippon® K and Klippon® POK series (aluminium and plastic) with matching mounting rails.

Empty enclosures with pre-threaded holes

Empty enclosures in different sizes from the Klippon® K and Klippon® POK series (aluminium and plastic), that are already equipped with metric threaded holes.

Mounting rails

Exactly tailored mounting rails for the enclosure sizes on offer.

Terminal strips

Mounting rails, which also perfectly match the offered enclosure sizes and are pre-fitted with terminals, optionally with screw or tension clamp connection.

Distribution boxes with Ex-protection

Enclosures that are already assembled with a terminal strip and already equipped with metric threaded holes.

Numerous possible combinations

Enclosures with Ex-protection are supplied exclusively with terminal strips that are already fitted. The product assistant offers you various approaches for industry variants so that you can create the right enclosure variant.

You can start off with any of the listed components and then add further components to the combination. This means that, for example, you can select the required terminal strip and the product assistant will then offer the matching enclosure variants. Or, you can start with the enclosure, and matching terminal strips or mounting rails will then be chosen. The selected products can then be directly included in the query list.

Provision of all relevant data

During the selection, you can choose filters for the terminal strips, such as length, connection technology or dimensional cross-section and, for the enclosure, you can choose material, size, holes etc. If a product is then selected and combined, the user can view all of the relevant data, including drawings and pictures. This means that you can extensively plan how the enclosure will be integrated into the customer's application.

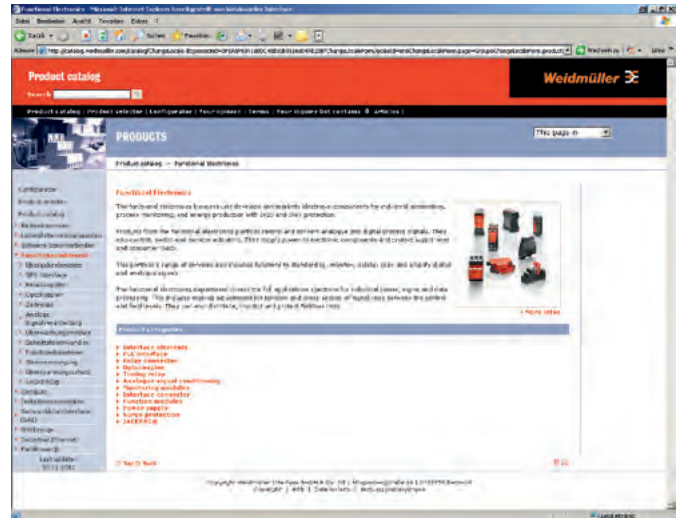
The product assistant is available at
<http://galaxy.weidmueller.com>

Online product catalogue

If you have questions about the specifications and details of our products, perhaps even outside normal business hours, then our online catalogue at <http://catalog.weidmueller.com>

is open 24 hours a day, 365 days a year and is the ideal source for information. Besides product features and part numbers, it contains extensive details on all product groups.

For further information, offers and your personal contact, simply consult the Weidmüller website at www.weidmueller.com



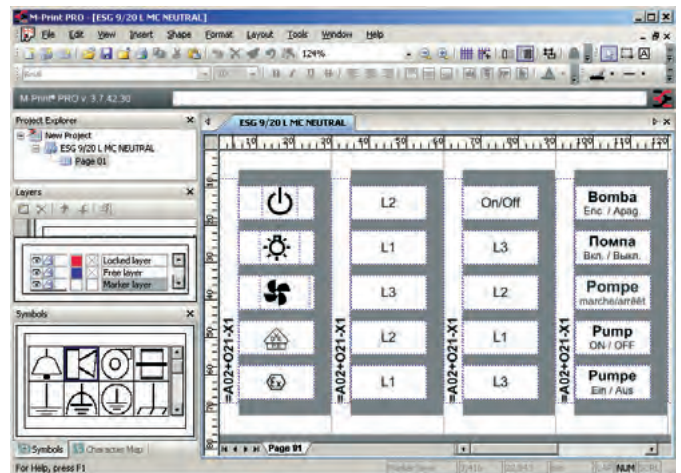
Just one click away for the product data sheet of your choice.

M-Print® PRO label designer

The comprehensive range of Weidmüller services includes the M-Print® PRO software.

This is a professional standard, Windows®-based program for printing and ordering labels and markers that is coordinated with our current printing systems and marking materials.

M-Print® PRO enables you to design your labelling materials professionally and quickly. Texts, borders, lines, graphics, barcodes, serial numbers and photographs are all possible. The interface to RailDesigner® or your CAE system enables the transfer of all your configured data.



Index

Index	Index Type	X.2
	Index Order No.	X.4
	Addresses worldwide	X.6

Type	Order No.	Page	Type	Order No.	Page	Type	Order No.	Page	Type	Order No.	Page
HDC 06B SLU 2M20G	1788140000	B.35	HDC 10A DODL 1LB	1665890000	E.12	HDC 10B SBU 2M20G	1787640000	B.73	HDC 16A DMDL 2BO	1665910000	B.57
HDC 06B SLU 2M20G	1788140000	B.21	HDC 10A DODL 1LB	1665890000	B.51	HDC 10B SBU 2M20G	1787640000	B.55	HDC 16A DMDL 2BO	1665910000	B.13
HDC 06B SLU 2M25G	1788130000	E.15	HDC 10A DODL 1LB	1665890000	E.11	HDC 10B SBU 2M20G	1787640000	B.37	HDC 16A DODL 1LB	1665900000	E.24
HDC 06B SLU 2M25G	1788130000	D.27	HDC 10A KLU 1M25G	1788670000	B.13	HDC 10B SBU 2M20G	1787640000	B.23	HDC 16A DODL 1LB	1665900000	B.57
HDC 06B SLU 2M25G	1788130000	D.25	HDC 10A KLU 1M25G	1788670000	B.51	HDC 10B SBU 2M25G	1787630000	E.17	HDC 16A DODL 1LB	1665900000	B.13
HDC 06B SLU 2M25G	1788130000	B.71	HDC 10A KLU 1M25G	1788670000	B.11	HDC 10B SBU 2M25G	1787630000	D.31	HDC 16A KLU 1M25G	1788800000	E.25
HDC 06B SLU 2M25G	1788130000	B.53	HDC 10A KLU 1PG16G	1664560000	E.13	HDC 10B SBU 2M25G	1787630000	D.29	HDC 16A KLU 1M25G	1788800000	B.57
HDC 06B SLU 2M25G	1788130000	B.35	HDC 10A KLU 2PG09G	1783250000	E.13	HDC 10B SBU 2M25G	1787630000	B.117	HDC 16A KLU 1M25G	1788800000	B.13
HDC 06B SLU 2M25G	1788130000	B.21	HDC 10A SDLU 1M20G	1901010000	E.13	HDC 10B SBU 2M25G	1787630000	B.85	HDC 16A SDLU 1PG16G	1665450000	E.25
HDC 06B SLU 2PG16G	1652760000	E.15	HDC 10A SDLU 1M25G	1901040000	E.13	HDC 10B SBU 2M25G	1787630000	B.73	HDC 16A SDLU 2M20G	1788790000	E.25
HDC 06B TOLU 1M20G	1788120000	L.10	HDC 10A SDLU 1PG16G	1664410000	E.13	HDC 10B SBU 2M25G	1787630000	B.55	HDC 16A SDLU 2M20G	1788790000	B.57
HDC 06B TOLU 1M20G	1788120000	L.8	HDC 10A SDLU 2M20G	1788660000	E.13	HDC 10B SBU 2M25G	1787630000	B.37	HDC 16A SDLU 2M20G	1788790000	B.13
HDC 06B TOLU 1M20G	1788120000	E.14	HDC 10A SDLU 2M20G	1788660000	B.51	HDC 10B SBU 2M25G	1787630000	B.23	HDC 16A SDLU 2M25G	1788780000	E.25
HDC 06B TOLU 1M20G	1788120000	D.27	HDC 10A SDLU 2M20G	1788660000	B.11	HDC 10B SBU 2PG16G	1654380000	E.17	HDC 16A SDLU 2M25G	1788780000	B.57
HDC 06B TOLU 1M20G	1788120000	D.25	HDC 10A SDLU 2M25G	1788650000	E.13	HDC 10B SDBO 1M20G	1901490000	E.21	HDC 16A SDLU 2M25G	1788780000	B.13
HDC 06B TOLU 1M20G	1788120000	B.71	HDC 10A SDLU 2M25G	1788650000	B.51	HDC 10B SDBO 1M25G	1901510000	E.21	HDC 16A SDLU 2PG16G	1665300000	E.25
HDC 06B TOLU 1M20G	1788120000	B.53	HDC 10A SDLU 2M25G	1788650000	B.11	HDC 10B SDBO 2M20G	1787680000	E.21	HDC 16A SLU 1PG21G	1665090000	E.25
HDC 06B TOLU 1M20G	1788120000	B.35	HDC 10A SDLU 2PG16G	1664420000	E.13	HDC 10B SDBO 2M25G	1787670000	E.21	HDC 16A SLU 2M20G	1788770000	E.25
HDC 06B TOLU 1M20G	1788120000	B.21	HDC 10A SLU 1M20G	1901100000	E.13	HDC 10B SDBO 2PG16G	1655000000	E.21	HDC 16A SLU 2M20G	1788770000	B.57
HDC 06B TOLU 1M25G	1788110000	E.14	HDC 10A SLU 1M25G	1901160000	E.13	HDC 10B SDLU 1M20G	1901570000	E.19	HDC 16A SLU 2M20G	1788770000	B.13
HDC 06B TOLU 1M25G	1788110000	D.27	HDC 10A SLU 1PG16G	1664170000	E.13	HDC 10B SDLU 2M20G	1787700000	E.19	HDC 16A SLU 2M25G	1788760000	E.25
HDC 06B TOLU 1M25G	1788110000	D.25	HDC 10A SLU 1PG21G	1664210000	E.13	HDC 10B SDLU 2PG16G	1655680000	E.19	HDC 16A SLU 2M25G	1788760000	B.57
HDC 06B TOLU 1M25G	1788110000	B.71	HDC 10A SLU 2M20G	1788640000	E.13	HDC 10B SDBO 1M20G	1901620000	E.19	HDC 16A SLU 2M25G	1788760000	B.13
HDC 06B TOLU 1M25G	1788110000	B.53	HDC 10A SLU 2M20G	1788640000	B.51	HDC 10B SDBO 1M25G	1901640000	E.19	HDC 16A SLU 2PG16G	1665070000	E.25
HDC 06B TOLU 1M25G	1788110000	B.35	HDC 10A SLU 2M20G	1788640000	B.11	HDC 10B SLU 2M20G	1787660000	E.19	HDC 16A TOLU 1M25G	1788750000	E.24
HDC 06B TOLU 1M25G	1788110000	B.21	HDC 10A SLU 2M25G	1788630000	E.13	HDC 10B SLU 2M25G	1787650000	E.19	HDC 16A TOLU 1M25G	1788750000	B.57
HDC 06B TOLU 1PG13G	1670500000	E.14	HDC 10A SLU 2M25G	1788630000	B.51	HDC 10B SLU 2PG16G	1655470000	E.19	HDC 16A TOLU 1M25G	1788750000	B.13
HDC 06B TOLU 1PG16G	1652640000	L.11	HDC 10A SLU 2M25G	1788630000	B.11	HDC 10B TOBO 1M25G	1787610000	E.21	HDC 16A TOLU 1PG16G	1664810000	E.24
HDC 06B TOLU 1PG16G	1652640000	L.9	HDC 10A SLU 2PG16G	1664190000	E.13	HDC 10B TOBO 1PG16G	1654860000	E.21	HDC 16A TSLU 1M20G	1041760000	E.24
HDC 06B TOLU 1PG16G	1652640000	E.14	HDC 10A TOLU 1M20G	1788620000	E.12	HDC 10B TOBO 1M20G	1787600000	E.16	HDC 16A TSLU 1M25G	1788740000	E.24
HDC 06B TSLU 1M20G	1788100000	L.10	HDC 10A TOLU 1M20G	1788620000	B.51	HDC 10B TOBO 1M20G	1787600000	D.31	HDC 16A TSLU 1M25G	1788740000	B.57
HDC 06B TSLU 1M20G	1788100000	E.18	HDC 10A TOLU 1M20G	1788620000	B.11	HDC 10B TOBO 1M20G	1787600000	D.29	HDC 16A TSLU 1M25G	1788740000	B.13
HDC 06B TSLU 1M20G	1788100000	L.14	HDC 10A TOLU 1M25G	1788610000	E.12	HDC 10B TOBO 1M20G	1787600000	B.117	HDC 16A TSLU 1PG16G	1664690000	E.24
HDC 06B TSLU 1M20G	1788100000	D.27	HDC 10A TOLU 1M25G	1788610000	B.51	HDC 10B TOBO 1M20G	1787600000	B.85	HDC 16B ABU	1208600000	L.28
HDC 06B TSLU 1M20G	1788100000	D.25	HDC 10A TOLU 1M25G	1788610000	B.11	HDC 10B TOBO 1M25G	1787600000	B.73	HDC 16B ABU	1208600000	L.19
HDC 06B TSLU 1M20G	1788100000	B.71	HDC 10A TOLU 1M25G	1788610000	B.51	HDC 10B TOBO 1M25G	1787600000	B.55	HDC 16B ABU	1208600000	L.18
HDC 06B TSLU 1M20G	1788100000	B.53	HDC 10A TOLU 1PG16G	1663930000	E.12	HDC 10B TOBO 1M20G	1787600000	B.37	HDC 16B ABU	1208600000	L.17
HDC 06B TSLU 1M20G	1788100000	B.35	HDC 10A TOLU 2PG11G	1769170000	E.12	HDC 10B TOBO 1M20G	1787600000	B.23	HDC 16B ABU	1208600000	L.16
HDC 06B TSLU 1M20G	1788100000	B.21	HDC 10A TSLU 1M20G	1967660000	E.12	HDC 10B TOBO 1M20G	1787600000	B.23	HDC 16B ABU	1208600000	E.27
HDC 06B TSLU 1M20G	1788100000	E.14	HDC 10A TSLU 1PG16G	1663810000	E.12	HDC 10B TOBO 1M25G	1787590000	L.14	HDC 16B ABU	1208600000	D.35
HDC 06B TSLU 1M25G	1788090000	E.21	HDC 10B ABO	1052340000	E.21	HDC 10B TOBO 1M25G	1787590000	L.12	HDC 16B ABU	1208600000	D.33
HDC 06B TSLU 1M25G	1788090000	D.27	HDC 10B ABO	1052340000	E.12	HDC 10B TOBO 1M25G	1787590000	E.16	HDC 16B ABU	1208600000	B.129
HDC 06B TSLU 1M25G	1788090000	D.25	HDC 10B ABU	1205000000	L.15	HDC 10B TOBO 1M25G	1787590000	D.31	HDC 16B ABU	1208600000	B.127
HDC 06B TSLU 1M25G	1788090000	B.71	HDC 10B ABU	1205000000	L.13	HDC 10B TOBO 1M25G	1787590000	D.29	HDC 16B ABU	1208600000	B.125
HDC 06B TSLU 1M25G	1788090000	B.53	HDC 10B ABU	1205000000	L.12	HDC 10B TOBO 1M25G	1787590000	B.117	HDC 16B ABU	1208600000	B.123
HDC 06B TSLU 1M25G	1788090000	B.35	HDC 10B ABU	1205000000	E.17	HDC 10B TOBO 1M25G	1787590000	B.85	HDC 16B ABU	1208600000	B.121
HDC 06B TSLU 1M25G	1788090000	B.21	HDC 10B ABU	1205000000	D.31	HDC 10B TOBO 1M25G	1787590000	B.73	HDC 16B ABU	1208600000	B.119
HDC 06B TSLU 1PG13G	1670530000	E.14	HDC 10B ABU	1205000000	D.29	HDC 10B TOBO 1M25G	1787590000	B.55	HDC 16B ABU	1208600000	B.93
HDC 06B TSLU 1PG16G	1652520000	L.11	HDC 10B ABU	1205000000	B.117	HDC 10B TOBO 1M25G	1787590000	B.37	HDC 16B ABU	1208600000	B.87
HDC 06B TSLU 1PG16G	1652520000	L.9	HDC 10B ABU	1205000000	B.85	HDC 10B TOBO 1M25G	1787590000	B.23	HDC 16B ABU	1208600000	B.75
HDC 06B TSLU 1PG16G	1652520000	E.14	HDC 10B ABU	1205000000	B.73	HDC 10B TOBO 1PG16G	1654220000	L.15	HDC 16B ABU	1208600000	B.59
HDC 07A ALU	1652410000	L.7	HDC 10B ABU	1205000000	B.55	HDC 10B TOBO 1PG16G	1654220000	L.13	HDC 16B ABU	1208600000	B.39
HDC 07A ALU	1652410000	I.6	HDC 10B ABU	1205000000	B.37	HDC 10B TOBO 1PG16G	1654220000	E.16	HDC 16B ABU	1208600000	B.25
HDC 07A ALU	1652410000	L.5	HDC 10B ABU	1205000000	E.23	HDC 10B TOBO 1PG21G	1654240000	E.16	HDC 16B ABU	1208600000	B.31
HDC 07A ALU	1652410000	L.4	HDC 10B ADBO	1205600000	E.21	HDC 10B TOLU 1M25G	1787620000	E.18	HDC 16B ADBO	1209200000	E.24
HDC 07A ALU	1652410000	E.5	HDC 10B ADLU	1206500000	E.19	HDC 10B TOLU 1PG16G	1655320000	E.18	HDC 16B ADLU	1210100000	E.29
HDC 07A ALU	1652410000	B.49	HDC 10B ALU	1206100000	E.19	HDC 10B TSLU 1M25G	1787570000	E.21	HDC 16B ALU	1209700000	E.29
HDC 07A ALU	1652410000	B.47	HDC 10B AZO	1901700000	E.22	HDC 10B TSBO 1PG16G	1654750000	E.21	HDC 16B DC	1215920000	J.26
HDC 07A AWLU	1652420000	I.7	HDC 10B DC	1215910000	J.26	HDC 10B TSBO 1M20G	1787560000	E.16	HDC 16B DMDQ 2OB	1665270000	E.26
HDC 07A AWLU	1652420000	L.6	HDC 10B DMDQ 2OB	1665240000	E.16	HDC 10B TSBO 1M20G	1787560000	D.31	HDC 16B DMDQ 2OB	1665270000	D.35
HDC 07A AWLU	1652420000	L.5	HDC 10B DMDQ 2OB	1665240000	D.31	HDC 10B TSBO 1M20G	1787560000	D.29	HDC 16B DMDQ 2OB	1665270000	D.33
HDC 07A AWLU	1652420000	E.5	HDC 10B DMDQ 2OB	1665240000	D.29	HDC 10B TSBO 1M20G	1787560000	B.117	HDC 16B DMDQ 2OB	1665270000	B.129
HDC 07A DMDL 2BO	1665770000	E.5	HDC 10B DMDQ 2OB	1665240000	B.117	HDC 10B TSBO 1M20G	1787560000	B.85	HDC 16B DMDQ 2OB	1665270000	B.127
HDC 07A DMDL 2BO	1665770000	B.49	HDC 10B DMDQ 2OB	1665240000	B.85	HDC 10B TSBO 1M20G	1787560000	B.73	HDC 16B DMDQ 2OB	1665270000	B.125
HDC 07A DMDL 2BO	1665770000	B.47	HDC 10B DMDQ 2OB	1665240000	B.73	HDC 10B TSBO 1M20G	1787560000	B.55	HDC 16B DMDQ 2OB	1665270000	B.123
HDC 07A DODL 2BO	1665760000	E.5	HDC 10B DMDQ 2OB	1665240000	B.55	HDC 10B TSBO 1M20G	1787560000	B.37	HDC 16B DMDQ 2OB	1665270000	B.121
HDC 07A DODL 2BO	1665760000	B.49	HDC 10B DMDQ 2OB	1665240000	B.37	HDC 10B TSBO 1M20G	1787560000	B.23	HDC 16B DMDQ 2OB	1665270000	B.119
HDC 07A DODL 2BO	1665760000	B.47	HDC 10B DMDQ 2OB	1665240000	B.23	HDC 10B TSBO 1M25G	1787550000	L.14	HDC 16B DMDQ 2OB	1665270000	B.93
HDC 07A ELU 1PG13G	1900990000	E.5	HDC 10B DMDQ 2OB	1665240000	E.21	HDC 10B TSBO 1M25G	1787550000	L.12	HDC 16B DMDQ 2OB	1665270000	B.87
HDC 07A ELU 1PG13G	1900990000	B.49	HDC 10B DODQ 2OB	1009800000	E.21	HDC 10B TSBO 1M25G	1787550000	E.16	HDC 16B DMDQ 2OB	1665270000	B.75
HDC 07A ELU 1PG13G	1900990000	B.47	HDC 10B DODQ 4BO	1665230000	E.17	HDC 10B TSBO 1M25G	1787550000	D.31	HDC 16B DMDQ 2OB	1665270000	B.59
HDC 07A KOLU 1M20G	1788540000	E.5	HDC 10B DODQ 4BO	1665230000	D.31	HDC 10B TSBO 1M25G	1787550000	D.29	HDC 16B DMDQ 2OB	1665270000	B.39
HDC 07A KOLU 1M20G	1788540000	B.49	HDC 10B DODQ 4BO	1665230000	D.29	HDC 10B TSBO 1M25G	1787550000	B.117	HDC 16B DMDQ 2OB	1665270000	B.25
HDC 07A KOLU 1M20G	1788540000	B.47	HDC 10B DODQ 4BO	1665230000	B.117	HDC 10B TSBO 1M25G	1787550000	B.85	HDC 16B DMDQ 2OB	1665270000	B.19
HDC 07A KOLU 1PG11G	1652460000	E.5</									

Type	Order No.	Page	Type	Order No.	Page	Type	Order No.	Page	Type	Order No.	Page
HDC 16B SBU 2M25G	1788240000	B.121	HDC 16D TSLU 1M25G	1787480000	E.14	HDC 24B SBU 2M25G	1787870000	B.77	HDC 24B TSBV 1M32G	1787750000	D.37
HDC 16B SBU 2M25G	1788240000	B.119	HDC 16D TSLU 1M25G	1787480000	D.27	HDC 24B SBU 2M25G	1787870000	B.63	HDC 24B TSBV 1M32G	1787750000	B.135
HDC 16B SBU 2M25G	1788240000	B.93	HDC 16D TSLU 1M25G	1787480000	D.25	HDC 24B SBU 2M25G	1787870000	B.41	HDC 24B TSBV 1M32G	1787750000	B.133
HDC 16B SBU 2M25G	1788240000	B.87	HDC 16D TSLU 1M25G	1787480000	B.115	HDC 24B SBU 2M25G	1787870000	B.27	HDC 24B TSBV 1M32G	1787750000	B.131
HDC 16B SBU 2M25G	1788240000	B.75	HDC 16D TSLU 1M25G	1787480000	B.71	HDC 24B SBU 2PG21G	1661520000	E.37	HDC 24B TSBV 1M32G	1787750000	B.89
HDC 16B SBU 2M25G	1788240000	B.59	HDC 16D TSLU 1M25G	1787480000	B.53	HDC 24B SDBO 2PG21G	1662180000	E.40	HDC 24B TSBV 1M32G	1787750000	B.77
HDC 16B SBU 2M25G	1788240000	B.39	HDC 16D TSLU 1M25G	1787480000	B.35	HDC 24B SDBO 2PG21G	1662180000	E.40	HDC 24B TSBV 1M32G	1787750000	B.63
HDC 16B SBU 2M25G	1788240000	B.25	HDC 16D TSLU 1M25G	1787480000	B.21	HDC 24B SDBO 2PG21G	1662180000	E.40	HDC 24B TSBV 1M32G	1787750000	B.41
HDC 16B SBU 2PG21G	1656730000	E.27	HDC 16D TSLU 1M32G	1787470000	E.14	HDC 24B SDBO 2PG21G	1662180000	E.40	HDC 24B TSBV 1M32G	1787750000	B.27
HDC 16B SDBO 1M25G	1900080000	E.31	HDC 16D TSLU 1M32G	1787470000	B.115	HDC 24B SL 2X120	1232700000	C.13	HDC 24B TSBV 1M40G	1902480000	E.36
HDC 16B SDBO 2M25G	1788260000	E.31	HDC 16D TSLU 1PG21G	1652560000	E.14	HDC 24B SL 2X150	1119910000	C.13	HDC 24B TSBV 1PG21G	1661230000	I.23
HDC 16B SDBO 2PG21G	1657640000	E.31	HDC 16D TSLU 1PG29G	1652580000	E.14	HDC 24B SL 2X16-25	1160410000	C.7	HDC 24B TSBV 1PG21G	1661230000	I.21
HDC 16B SDBO 1PG21G	1658320000	E.29	HDC 24B ABO	1967910000	E.40	HDC 24B SL 2X185	1232710000	C.13	HDC 24B TSBV 1PG21G	1661230000	E.36
HDC 16B SDBO 2M25G	1788270000	E.29	HDC 24B ABU	1212400000	I.23	HDC 24B SL 2X240	1119920000	C.13	HDC 24B TSBV 1PG29G	1661240000	E.36
HDC 16B SDBO 1PG21G	1658330000	E.29	HDC 24B ABU	1212400000	I.22	HDC 24B SL 2X35	1232740000	C.7	HDC 24B TSBV 1M25G	1787800000	E.38
HDC 16B SLU 1M25G	1900170000	E.29	HDC 24B ABU	1212400000	I.21	HDC 24B SL 2X50	1160420000	C.13	HDC 24B TSLU 1M32G	1787790000	E.38
HDC 16B SLU 1PG21G	1658110000	E.29	HDC 24B ABU	1212400000	I.20	HDC 24B SL 2X50	1160420000	C.7	HDC 24B TSLU 1PG21G	1662390000	E.38
HDC 16B SLU 2M25G	1788250000	E.29	HDC 24B ABU	1212400000	E.37	HDC 24B SL 2X70	1232750000	C.13	HDC 24B TSLU 1PG29G	1662410000	E.38
HDC 16B SLU 2PG21G	1658120000	E.29	HDC 24B ABU	1212400000	D.39	HDC 24B SL 2X70	1232750000	C.7	HDC 24D KLU 1M25G	1787460000	E.19
HDC 16B TOBO 1M25G	1788220000	E.30	HDC 24B ABU	1212400000	D.37	HDC 24B SL 2X95	1119900000	C.13	HDC 24D KLU 1M32G	1787450000	E.19
HDC 16B TOBO 1PG21G	1657490000	E.30	HDC 24B ABU	1212400000	B.135	HDC 24B SL 2X95	1119900000	C.7	HDC 24D SBU 1M25G	1903210000	E.17
HDC 16B TOBU 1M25G	1788210000	I.18	HDC 24B ABU	1212400000	B.133	HDC 24B SL 3X120	1232680000	C.13	HDC 24D SBU 1M32G	1903220000	E.17
HDC 16B TOBU 1M25G	1788210000	L.16	HDC 24B ABU	1212400000	B.131	HDC 24B SL 3X150	1119880000	C.13	HDC 24D SBU 1PG29G	1654470000	E.17
HDC 16B TOBU 1M25G	1788210000	E.26	HDC 24B ABU	1212400000	B.89	HDC 24B SL 3X16-25	1160390000	C.7	HDC 24D SBU 2M25G	1787350000	E.17
HDC 16B TOBU 1M25G	1788210000	D.35	HDC 24B ABU	1212400000	B.77	HDC 24B SL 3X185	1232690000	C.13	HDC 24D SBU 2M32G	1787360000	E.17
HDC 16B TOBU 1M25G	1788210000	D.33	HDC 24B ABU	1212400000	B.63	HDC 24B SL 3X240	1119890000	C.13	HDC 24D SBU 2PG21G	1654450000	E.17
HDC 16B TOBU 1M25G	1788210000	B.129	HDC 24B ABU	1212400000	B.41	HDC 24B SL 3X35	1232720000	C.7	HDC 24D SDBO 1M25G	1903370000	E.21
HDC 16B TOBU 1M25G	1788210000	B.127	HDC 24B ABU	1212400000	B.27	HDC 24B SL 3X50	1160400000	C.13	HDC 24D SDBO 2M25G	1787400000	E.21
HDC 16B TOBU 1M25G	1788210000	B.125	HDC 24B ADLO	1213300000	E.40	HDC 24B SL 3X50	1160400000	C.7	HDC 24D SDBO 1M25G	1903410000	E.19
HDC 16B TOBU 1M25G	1788210000	B.123	HDC 24B ADLU	1214300000	E.39	HDC 24B SL 3X70	1232730000	C.13	HDC 24D SDBO 1M32G	1903510000	E.19
HDC 16B TOBU 1M25G	1788210000	B.121	HDC 24B ALU	1213900000	E.39	HDC 24B SL 3X70	1232730000	C.7	HDC 24D SDBO 2M25G	1787420000	E.19
HDC 16B TOBU 1M25G	1788210000	B.119	HDC 24B AZO	1611350000	E.41	HDC 24B SL 3X95	1079650000	C.13	HDC 24D SDBO 2M32G	1787410000	E.19
HDC 16B TOBU 1M25G	1788210000	B.93	HDC 24B DC	1215930000	J.26	HDC 24B SL 3X95	1079650000	C.7	HDC 24D SDBO 1M32G	1903560000	E.19
HDC 16B TOBU 1M25G	1788210000	B.87	HDC 24B DMDQ 2QB	1665640000	E.36	HDC 24B SL 4X16-25 T1	1220770000	C.7	HDC 24D SDBO 2M32G	1787370000	E.19
HDC 16B TOBU 1M25G	1788210000	B.75	HDC 24B DMDQ 2QB	1665640000	D.39	HDC 24B SL 4X16-25 T2	1220820000	C.7	HDC 24D SDBO 2PG21G	1968350000	E.22
HDC 16B TOBU 1M25G	1788210000	B.59	HDC 24B DMDQ 2QB	1665640000	D.37	HDC 24B SL 4X35 T1	1232770000	C.7	HDC 24D TOBO 1PG29G	1654920000	E.21
HDC 16B TOBU 1M25G	1788210000	B.39	HDC 24B DMDQ 2QB	1665640000	B.135	HDC 24B SL 4X35 T2	1232790000	C.7	HDC 24D TOBU 1M25G	1787300000	E.16
HDC 16B TOBU 1M25G	1788210000	B.25	HDC 24B DMDQ 2QB	1665640000	B.133	HDC 24B SL 4X50 T1	1220760000	C.7	HDC 24D TOBU 1M25G	1787300000	D.31
HDC 16B TOBU 1PG21G	1656590000	I.19	HDC 24B DMDQ 2QB	1665640000	B.131	HDC 24B SL 4X50 T2	1220810000	C.7	HDC 24D TOBU 1M25G	1787300000	D.29
HDC 16B TOBU 1PG21G	1656590000	I.17	HDC 24B DMDQ 2QB	1665640000	B.89	HDC 24B SL 4X70 T1	1232760000	C.7	HDC 24D TOBU 1M25G	1787300000	B.117
HDC 16B TOBU 1PG21G	1656590000	E.26	HDC 24B DMDQ 2QB	1665640000	B.77	HDC 24B SL 4X70 T2	1232780000	C.7	HDC 24D TOBU 1M25G	1787300000	B.85
HDC 16B TOLU 1M25G	1788230000	E.28	HDC 24B DMDQ 2QB	1665640000	B.63	HDC 24B SL 4X95 T1	1220750000	C.7	HDC 24D TOBU 1M25G	1787300000	B.73
HDC 16B TOLU 1M32G	1804630000	E.28	HDC 24B DMDQ 2QB	1665640000	B.41	HDC 24B SL 4X95 T2	1220790000	C.7	HDC 24D TOBU 1M25G	1787300000	B.55
HDC 16B TOLU 1PG21G	1657960000	E.28	HDC 24B DMDQ 2QB	1665640000	B.27	HDC 24B SLU 1M25G	1901560000	E.39	HDC 24D TOBU 1M25G	1787300000	B.37
HDC 16B TSOB 1M25G	1788190000	E.30	HDC 24B DMDQ 4BO	1665650000	E.40	HDC 24B SLU 2M25G	1787890000	E.39	HDC 24D TOBU 1M25G	1787300000	B.23
HDC 16B TSOB 1PG21G	1657380000	E.30	HDC 24B DODQ 2QB	1009100000	E.40	HDC 24B SDBO 2PG21G	1662720000	E.39	HDC 24D TOBU 1M32G	1787290000	E.16
HDC 16B TSBV 1M25G	1788180000	L.18	HDC 24B DODQ 4BO	1665630000	E.37	HDC 24B TOBO 1M32G	1787830000	E.40	HDC 24D TOBU 1M32G	1787290000	D.31
HDC 16B TSBV 1M25G	1788180000	L.16	HDC 24B DODQ 4BO	1665630000	D.39	HDC 24B TOBO 1PG29G	1662020000	E.40	HDC 24D TOBU 1M32G	1787290000	D.29
HDC 16B TSBV 1M25G	1788180000	E.26	HDC 24B DODQ 4BO	1665630000	D.37	HDC 24B TOBO 1M25G	1787820000	E.36	HDC 24D TOBU 1M32G	1787290000	B.117
HDC 16B TSBV 1M25G	1788180000	D.35	HDC 24B DODQ 4BO	1665630000	B.135	HDC 24B TOBU 1M25G	1787820000	D.39	HDC 24D TOBU 1M32G	1787290000	B.85
HDC 16B TSBV 1M25G	1788180000	D.33	HDC 24B DODQ 4BO	1665630000	B.133	HDC 24B TOBU 1M25G	1787820000	D.37	HDC 24D TOBU 1M32G	1787290000	B.73
HDC 16B TSBV 1M25G	1788180000	B.129	HDC 24B DODQ 4BO	1665630000	B.131	HDC 24B TOBU 1M25G	1787820000	B.135	HDC 24D TOBU 1M32G	1787290000	B.55
HDC 16B TSBV 1M25G	1788180000	B.127	HDC 24B DODQ 4BO	1665630000	B.89	HDC 24B TOBU 1M32G	1787820000	B.133	HDC 24D TOBU 1M32G	1787290000	B.37
HDC 16B TSBV 1M25G	1788180000	B.125	HDC 24B DODQ 4BO	1665630000	B.77	HDC 24B TOBU 1M32G	1787820000	B.131	HDC 24D TOBU 1M32G	1787290000	B.23
HDC 16B TSBV 1M25G	1788180000	B.123	HDC 24B DODQ 4BO	1665630000	B.63	HDC 24B TOBU 1M25G	1787820000	B.89	HDC 24D TOBU 1PG29G	1654320000	E.16
HDC 16B TSBV 1M25G	1788180000	B.121	HDC 24B DODQ 4BO	1665630000	B.41	HDC 24B TOBU 1M25G	1787820000	B.77	HDC 24D TOLU 1M25G	1787340000	E.18
HDC 16B TSBV 1M25G	1788180000	B.119	HDC 24B DODQ 4BO	1665630000	B.27	HDC 24B TOBU 1M25G	1787820000	B.63	HDC 24D TOLU 1M32G	1787330000	E.18
HDC 16B TSBV 1M25G	1788180000	B.93	HDC 24B HP250 MPL2 TYP1	1103690000	J.14	HDC 24B TOBU 1M25G	1787820000	B.41	HDC 24D TOLU 1PG21G	1655360000	E.18
HDC 16B TSBV 1M25G	1788180000	B.87	HDC 24B HP250 MPL2 TYP1	1103690000	C.7	HDC 24B TOBU 1M32G	1787820000	B.27	HDC 24D TOLU 1PG29G	1655380000	E.18
HDC 16B TSBV 1M25G	1788180000	B.75	HDC 24B HP250 MPL2 TYP2	1103740000	J.14	HDC 24B TOBU 1M32G	1787810000	I.22	HDC 24D TSOB 1M25G	1787260000	E.21
HDC 16B TSBV 1M25G	1788180000	B.59	HDC 24B HP250 MPL2 TYP2	1103740000	C.7	HDC 24B TOBU 1M32G	1787810000	I.20	HDC 24D TSBV 1M32G	1787250000	E.21
HDC 16B TSBV 1M25G	1788180000	B.39	HDC 24B HP250 MPL3 TYP1	1079640000	C.14	HDC 24B TOBU 1M32G	1787810000	E.36	HDC 24D TSBV 1PG16G	1654810000	E.21
HDC 16B TSBV 1M25G	1788180000	B.25	HDC 24B HP250 MPL3 TYP1	1079640000	C.7	HDC 24B TOBU 1M32G	1787810000	D.39	HDC 24D TSBV 1PG21G	1654790000	E.21
HDC 16B TSBV 1M40G	1809620000	E.26	HDC 24B HP250 MPL3 TYP2	1103750000	J.14	HDC 24B TOBU 1M32G	1787810000	D.37	HDC 24D TSBV 1M32G	1787240000	E.16
HDC 16B TSBV 1PG21G	1656480000	I.28	HDC 24B HP250 MPL3 TYP2	1103750000	C.7	HDC 24B TOBU 1M32G	1787810000	B.135	HDC 24D TSBV 1M25G	1787240000	D.31
HDC 16B TSBV 1PG21G	1656480000	I.19	HDC 24B HP250 MPL4 TYP1	1160430000	J.14	HDC 24B TOBU 1M32G	1787810000	B.133	HDC 24D TSBV 1M25G	1787240000	D.29
HDC 16B TSBV 1PG21G	1656480000	I.17	HDC 24B HP250 MPL4 TYP2	1160430000	C.7	HDC 24B TOBU 1M32G	1787810000	B.131	HDC 24D TSBV 1M25G	1787240000	B.117
HDC 16B TSLU 1PG21G	1656480000	E.28	HDC 24B HP250 MPL4 TYP2	1160440000	J.14	HDC 24B TOBU 1M32G	1787810000	B.89	HDC 24D TSBV 1M25G	1787240000	B.85
HDC 16B TSLU 1M25G	1788200000	E.28	HDC 24B HP250 MPL4 TYP2	1160440000	C.7	HDC 24B TOBU 1M32G	1787810000	B.77	HDC 24D TSBV 1M25G	1787240000	B.73
HDC 16B TSLU 1M32G	1804640000	E.28	HDC 24B HP250 MPL4 TYP1	1212890000	J.14	HDC 24B TOBU 1M32G	1787810000	B.63	HDC 24D TSBV 1M25G	1787240000	B.55
HDC 16B TSLU 1PG21G	1657850000	E.28	HDC 24B HP250 MPL4 TYP1	1212890000	C.7	HDC 24B TOBU 1M32G	1787810000	B.41	HDC 24D TSBV 1M25G	1787240000	B.37
HDC 16D KLU 1PG21G	1653230000	E.15	HDC 24B HP250 MPL4 TYP2	1212910000	J.14	HDC 24B TOBU 1M25G	1787810000	B.27	HDC 24D TSBV 1M25G	1787240000	B.23
HDC 16D SDBO 1M25G	1900820000	E.15	HDC 24B HP250 MPL4 TYP2	1212910000	C.7	HDC 24B TOBU 1M40G	1902980000	E.36	H		

Type	Order No.	Page	Type	Order No.	Page	Type	Order No.	Page	Type	Order No.	Page
HDC 25A TSLU 1M25G	1788690000	B.57	HDC 32B TSBV 1M32G	1788400000	L.24	HDC 40D TOBU 1M25G	1787070000	B.59	HDC 48B SLU 2M32G	1788370000	B.31
HDC 25A TSLU 1M25G	1788690000	B.13	HDC 32B TSBV 1M32G	1788400000	E.44	HDC 40D TOBU 1M25G	1787070000	B.39	HDC 48B SLU 2M40G	1788360000	E.49
HDC 25A TSLU 1PG16G	1664730000	E.24	HDC 32B TSBV 1PG29G	1666840000	L.25	HDC 40D TOBU 1M25G	1787070000	B.25	HDC 48B SLU 2M40G	1788360000	D.43
HDC 25A TSLU 1PG21G	1664750000	E.24	HDC 32B TSBV 1PG29G	1666840000	E.44	HDC 40D TOBU 1M32G	1787060000	E.26	HDC 48B SLU 2M40G	1788360000	B.81
HDC 32A ABU	1665860000	E.33	HDC 32B TSLU 1M32G	1788420000	E.46	HDC 40D TOBU 1M32G	1787060000	D.35	HDC 48B SLU 2M40G	1788360000	B.67
HDC 32A ABU	1665860000	E.31	HDC 32B TSLU 1M32G	1788420000	D.41	HDC 40D TOBU 1M32G	1787060000	D.33	HDC 48B TOLLU 1M32G	1788350000	E.49
HDC 32A ABU	1665860000	B.15	HDC 32B TSLU 1M32G	1788420000	B.79	HDC 40D TOBU 1M32G	1787060000	B.129	HDC 48B TOLLU 1M32G	1788350000	D.43
HDC 32A ADBO	1666440000	E.34	HDC 32B TSLU 1M32G	1788420000	B.65	HDC 40D TOBU 1M32G	1787060000	B.125	HDC 48B TOLLU 1M32G	1788350000	B.81
HDC 32A DMDQ 2QB	1665930000	E.32	HDC 32B TSLU 1M32G	1788420000	B.43	HDC 40D TOBU 1M32G	1787060000	B.123	HDC 48B TOLLU 1M32G	1788350000	B.67
HDC 32A DODQ 4BO	1665920000	E.33	HDC 32B TSLU 1M32G	1788420000	B.29	HDC 40D TOBU 1M32G	1787060000	B.121	HDC 48B TOLLU 1M40G	1788340000	E.49
HDC 32A KBU 1M25G	1788080000	E.33	HDC 32B TSLU 1PG29G	1667120000	E.46	HDC 40D TOBU 1M32G	1787060000	B.119	HDC 48B TOLLU 1M50G	1788330000	E.49
HDC 32A KBU 1M25G	1788080000	B.61	HDC 40D KBU 1M25G	1787200000	E.27	HDC 40D TOBU 1M32G	1787060000	B.93	HDC 48B TOLLU 1M50G	1788330000	E.49
HDC 32A KBU 1M32G	1788070000	E.33	HDC 40D KBU 1M25G	1787200000	D.35	HDC 40D TOBU 1M32G	1787060000	B.87	HDC 48B TOLLU 1M50G	1788330000	D.43
HDC 32A KBU 1M32G	1788070000	B.15	HDC 40D KBU 1M25G	1787200000	D.33	HDC 40D TOBU 1M32G	1787060000	B.75	HDC 48B TOLLU 1M50G	1788330000	B.81
HDC 32A KBU 1M32G	1788070000	B.61	HDC 40D KBU 1M25G	1787200000	B.129	HDC 40D TOBU 1M32G	1787060000	B.59	HDC 48B TOLLU 1M50G	1788330000	B.67
HDC 32A SBU 1M25G	1903870000	E.33	HDC 40D KBU 1M25G	1787200000	B.127	HDC 40D TOBU 1M32G	1787060000	B.39	HDC 48B TOLLU 1M50G	1788330000	B.31
HDC 32A SBU 1PG29G	1666010000	E.33	HDC 40D KBU 1M25G	1787200000	B.125	HDC 40D TOBU 1M32G	1787060000	B.25	HDC 48B TOLLU 1PG29G	1650980000	E.49
HDC 32A SBU 2M25G	1788040000	E.33	HDC 40D KBU 1M25G	1787200000	B.123	HDC 40D TOBU 1PG21G	1656630000	E.26	HDC 48B TOLLU 1PG36G	1651000000	E.49
HDC 32A SBU 2M25G	1788040000	B.61	HDC 40D KBU 1M25G	1787200000	B.121	HDC 40D TOLLU 1PG29G	1656650000	E.26	HDC 48B TSLU 1M32G	1788320000	E.49
HDC 32A SBU 2M25G	1788040000	B.15	HDC 40D KBU 1M25G	1787200000	B.119	HDC 40D TOLLU 1PG29G	1658020000	E.28	HDC 48B TSLU 1M32G	1788320000	B.81
HDC 32A SBU 2PG21G	1665980000	E.33	HDC 40D KBU 1M25G	1787200000	B.93	HDC 40D TOLLU 1PG29G	1658020000	E.30	HDC 48B TSLU 1M32G	1788320000	B.67
HDC 32A SDBO 1M25G	1903900000	E.34	HDC 40D KBU 1M25G	1787200000	B.87	HDC 40D TSBV 1M25G	1787030000	E.30	HDC 48B TSLU 1M32G	1788320000	B.31
HDC 32A SDBO 1M32G	1903910000	E.34	HDC 40D KBU 1M25G	1787200000	B.75	HDC 40D TSBV 1M32G	1787020000	E.30	HDC 48B TSLU 1M32G	1788320000	L.26
HDC 32A SDBO 1PG21G	1666550000	E.34	HDC 40D KBU 1M25G	1787200000	E.27	HDC 40D TSBV 1PG21G	1657420000	E.30	HDC 48B TSLU 1M40G	1788310000	B.31
HDC 32A SDBO 1PG29G	1666590000	E.34	HDC 40D KBU 1M25G	1787200000	B.39	HDC 40D TSBV 1M25G	1787010000	E.26	HDC 48B TSLU 1M40G	1788310000	E.49
HDC 32A SDBO 2M25G	1788060000	E.34	HDC 40D KBU 1M25G	1787200000	B.25	HDC 40D TSBV 1M25G	1787010000	D.35	HDC 48B TSLU 1M40G	1788310000	D.43
HDC 32A SDBO 2M32G	1788050000	E.34	HDC 40D KBU 1M32G	1787190000	E.27	HDC 40D TSBV 1M25G	1787010000	D.33	HDC 48B TSLU 1M40G	1788310000	B.81
HDC 32A TOBO 1M32G	1788010000	E.34	HDC 40D KBU 1M32G	1787190000	D.35	HDC 40D TSBV 1M25G	1787010000	B.129	HDC 48B TSLU 1M40G	1788310000	B.67
HDC 32A TOBU 1M32G	1787990000	E.32	HDC 40D KBU 1M32G	1787190000	D.33	HDC 40D TSBV 1M25G	1787010000	B.127	HDC 48B TSLU 1M40G	1788310000	B.31
HDC 32A TOBU 1M32G	1787990000	B.61	HDC 40D KBU 1M32G	1787190000	B.129	HDC 40D TSBV 1M25G	1787010000	B.125	HDC 48B TSLU 1M50G	1788300000	E.49
HDC 32A TOBU 1M32G	1787990000	B.15	HDC 40D KBU 1M32G	1787190000	B.127	HDC 40D TSBV 1M25G	1787010000	B.123	HDC 48B TSLU 1M50G	1788300000	D.43
HDC 32A TOBU 1PG21G	1665790000	E.32	HDC 40D KBU 1M32G	1787190000	B.123	HDC 40D TSBV 1M25G	1787010000	B.119	HDC 48B TSLU 1M50G	1788300000	B.81
HDC 32A TOBU 1PG29G	1665810000	E.32	HDC 40D KBU 1M32G	1787190000	B.121	HDC 40D TSBV 1M25G	1787010000	B.93	HDC 48B TSLU 1M50G	1788300000	B.67
HDC 32A TSBV 1M25G	1787980000	E.34	HDC 40D KBU 1M32G	1787190000	E.27	HDC 40D TSBV 1M25G	1787010000	B.87	HDC 48B TSLU 1PG29G	1650850000	L.27
HDC 32A TSBV 1M32G	1787970000	E.34	HDC 40D KBU 1M32G	1787190000	B.119	HDC 40D TSBV 1M25G	1787010000	B.75	HDC 48B TSLU 1PG29G	1650850000	E.49
HDC 32A TSBV 1PG29G	1666270000	E.34	HDC 40D KBU 1M32G	1787190000	B.93	HDC 40D TSBV 1M25G	1787010000	B.59	HDC 48B TSLU 1PG36G	1650860000	E.49
HDC 32A TSBV 1M25G	1787960000	E.32	HDC 40D KBU 1M32G	1787190000	B.87	HDC 40D TSBV 1M25G	1787010000	B.39	HDC 48B TSLU 1PG42G	1670470000	E.49
HDC 32A TSBV 1M25G	1787960000	B.15	HDC 40D KBU 1M32G	1787190000	B.75	HDC 40D TSBV 1M25G	1787010000	B.25	HDC 64D KBU 1M32G	1786960000	E.37
HDC 32A TSBV 1M32G	1787960000	B.61	HDC 40D KBU 1M32G	1787190000	B.59	HDC 40D TSBV 1M25G	1787010000	E.26	HDC 64D KBU 1M32G	1786960000	D.39
HDC 32A TSBV 1M32G	1787950000	E.32	HDC 40D KBU 1M32G	1787190000	B.39	HDC 40D TSBV 1M32G	1787000000	E.26	HDC 64D KBU 1M32G	1786960000	D.37
HDC 32A TSBV 1M32G	1787950000	B.61	HDC 40D KBU 1M32G	1787190000	B.25	HDC 40D TSBV 1M32G	1787000000	D.35	HDC 64D KBU 1M32G	1786960000	B.135
HDC 32A TSBV 1M32G	1787950000	B.15	HDC 40D KBU 1PG21G	1657310000	E.27	HDC 40D TSBV 1M32G	1787000000	D.33	HDC 64D KBU 1M32G	1786960000	B.133
HDC 32A TSBV 1PG21G	1665670000	E.32	HDC 40D KBU 1PG29G	1967670000	E.27	HDC 40D TSBV 1M32G	1787000000	B.129	HDC 64D KBU 1M32G	1786960000	B.89
HDC 32A TSBV 1PG29G	1665690000	E.32	HDC 40D KLU 1M25G	1787220000	E.29	HDC 40D TSBV 1M32G	1787000000	B.125	HDC 64D KBU 1M32G	1786960000	B.77
HDC 32B ABU	1217800000	L.25	HDC 40D SBU 1M25G	1902970000	E.27	HDC 40D TSBV 1M32G	1787000000	B.123	HDC 64D KBU 1M32G	1786960000	B.63
HDC 32B ABU	1217800000	L.24	HDC 40D SBU 1M32G	1902990000	E.27	HDC 40D TSBV 1M25G	1787000000	B.121	HDC 64D KBU 1M32G	1786960000	B.41
HDC 32B ABU	1217800000	E.45	HDC 40D SBU 1PG29G	1656830000	E.27	HDC 40D TSBV 1M25G	1787000000	B.93	HDC 64D KBU 1M32G	1786960000	B.27
HDC 32B ADBO	1218800000	E.48	HDC 40D SBU 2M25G	1787120000	E.27	HDC 40D TSBV 1M25G	1787000000	B.75	HDC 64D KBU 1M32G	1786960000	E.37
HDC 32B ADLU	1219800000	E.47	HDC 40D SBU 2M25G	1787120000	D.35	HDC 40D TSBV 1M25G	1787000000	B.59	HDC 64D KBU 1M32G	1786960000	B.133
HDC 32B ADLU	1219800000	D.41	HDC 40D SBU 2M25G	1787120000	B.129	HDC 40D TSBV 1M25G	1787000000	B.39	HDC 64D SBU 2M25G	1786990000	D.37
HDC 32B ADLU	1219800000	B.95	HDC 40D SBU 2M25G	1787120000	B.127	HDC 40D TSBV 1M25G	1787000000	B.26	HDC 64D SBU 2M25G	1786990000	B.135
HDC 32B ADLU	1219800000	B.79	HDC 40D SBU 2M25G	1787120000	B.125	HDC 40D TSBV 1M32G	1787000000	E.26	HDC 64D SBU 2M25G	1786990000	B.133
HDC 32B ADLU	1219800000	B.65	HDC 40D SBU 2M25G	1787120000	B.123	HDC 40D TSLU 1M32G	1787040000	E.28	HDC 64D SBU 2M25G	1786990000	B.131
HDC 32B ADLU	1219800000	B.49	HDC 40D SBU 2M25G	1787120000	B.121	HDC 40D TSLU 1M40G	1804650000	E.28	HDC 64D SBU 2M25G	1786990000	B.89
HDC 32B ADLU	1219800000	B.23	HDC 40D SBU 2M25G	1787120000	B.123	HDC 40D TSLU 1M40G	1804650000	E.28	HDC 64D SBU 2M25G	1786990000	B.77
HDC 32B ALU	1219500000	E.47	HDC 40D SBU 2M25G	1787120000	B.119	HDC 40D TSLU 1PG21G	1657890000	E.28	HDC 64D SBU 2M25G	1786990000	B.63
HDC 32B ALU	1219500000	D.41	HDC 40D SBU 2M25G	1787120000	B.93	HDC 40D TSLU 1PG29G	1657910000	E.28	HDC 64D SBU 2M25G	1786990000	B.41
HDC 32B ALU	1219500000	B.95	HDC 40D SBU 2M25G	1787120000	B.87	HDC 48A ADLU	1666750000	E.43	HDC 64D SBU 2M25G	1786990000	B.27
HDC 32B ALU	1219500000	D.41	HDC 40D SBU 2M25G	1787120000	B.83	HDC 48A ADLU	1666750000	B.17	HDC 64D SBU 2M32G	1786990000	E.37
HDC 32B ALU	1219500000	B.91	HDC 40D SBU 2M25G	1787120000	B.75	HDC 48A ADLU	1666740000	E.43	HDC 64D SBU 2M32G	1786990000	D.39
HDC 32B ALU	1219500000	B.79	HDC 40D SBU 2M25G	1787120000	B.65	HDC 48A ADLU	1666740000	B.17	HDC 64D SBU 2M32G	1786990000	D.37
HDC 32B ALU	1219500000	B.65	HDC 40D SBU 2M25G	1787120000	B.59	HDC 48A SDDL 1PG29G	1666810000	E.43	HDC 64D SBU 2M32G	1786990000	B.135
HDC 32B ALU	1219500000	B.43	HDC 40D SBU 2M25G	1787120000	B.43	HDC 48A SDDL 1PG29G	1666810000	E.43	HDC 64D SBU 2M32G	1786990000	B.133
HDC 32B ALU	1219500000	B.29	HDC 40D SBU 2M25G	1787120000	B.39	HDC 48A SDDL 1PG29G	1666810000	E.43	HDC 64D SBU 2M32G	1786990000	B.131
HDC 32B ALU	1219500000	B.15	HDC 40D SBU 2M32G	1787110000	B.123	HDC 48A SDDL 1PG29G	1666810000	E.43	HDC 64D SBU 2M32G	1786990000	B.89
HDC 32B ALU	1219500000	B.9	HDC 40D SBU 2M32G	1787110000	B.121	HDC 48A SDDL 1PG29G	1666810000	E.43	HDC 64D SBU 2M32G	1786990000	B.67
HDC 32B ALU	1219500000	B.65	HDC 40D SBU 2M32G	1787110000	B.119	HDC 48A SDDL 1PG29G	1666810000	E.43	HDC 64D SBU 2M32G	1786990000	B.31
HDC 32B ALU	1219500000	B.43	HDC 40D SBU 2M32G	1787110000	B.93	HDC 48A SDDL 1PG29G	1666810000	E.43	HDC 64D SBU 2M32G	1786990000	B.27
HDC 32B ALU	1219500000	B.29	HDC 40D SBU 2M32G	1787110000	B.87	HDC 48A SDDL 1PG29G	1666810000	E.43	HDC 64D SBU 2M32G	1786990000	B.135
HDC 32B ALU	1219500000	B.15	HDC 40D SBU 2M32G	1787110000	B.75	HDC 48A SDDL 1PG29G	1666810000	E.43	HDC 64D SBU 2M32G	1786990000	B.133
HDC 32B ALU	1219500000	B.9	HDC 40D SBU 2M32G	1787110000	B.65	HDC 48A SDDL 1PG29G	1666810000	E.43	HDC 64D SBU 2M32G	1786990000	B.131
HDC 32B ALU	1219500000	B.65	HDC 40D SBU 2M32G	1787110000	B.59	HDC 48A SDDL 1PG29G	1666810000	E.43	HDC 64D SBU 2M32G	1786990000	B.89
HDC 32B ALU	1219500000	B.43	HDC 40D SBU 2M32G	1787110000	B.43	HDC 48A SDDL 1PG29G	1666810000	E.43	HDC 64D SBU		

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HDC 64D TOBU 1M32G	1786830000	B.63	HDC CM BUS SV M4 CT	1983790000	D.17	HDC HD 25 FC	1650820000	B.56	HDC HE 24 FS	1211300000	L.20
HDC 64D TOBU 1M32G	1786830000	B.41	HDC CM BUS SV M8 CT	1043130000	H.5	HDC HD 25 FC „Z“	1023050000	B.56	HDC HE 24 FS	1211300000	B.30
HDC 64D TOBU 1M32G	1786830000	B.27	HDC CM BUS SV M8 CT	1043130000	D.17	HDC HD 25 MC	1650810000	B.60	HDC HE 24 FS	1211300000	L.26
HDC 64D TOBU 1M40G	1045560000	E.36	HDC CM GUIDING PIN	1202660000	J.13	HDC HD 25 MC	1650810000	B.56	HDC HE 24 FS 25-48	1221200000	B.27
HDC 64D TOBU 1M50G	1111140000	E.36	HDC CM GUIDING SOCKET	1202670000	J.13	HDC HD 25 MC „Z“	1023040000	B.56	HDC HE 24 FS 25-48	1221200000	L.26
HDC 64D TOBU 1PG21G	1661440000	E.36	HDC CM HE 4 FC	1861900000	D.5	HDC HD 25 MC „Z“	1601730000	B.64	HDC HE 24 MC 25-48	1221200000	B.30
HDC 64D TOBU 1PG29G	1661460000	E.36	HDC CM HE 4 MC	1861920000	D.5	HDC HD 40 FC	1601730000	B.58	HDC HE 24 FT	1745790000	B.30
HDC 64D TOBU 2M32G	1009710000	E.36	HDC CM HV 3 FC	1862060000	D.9	HDC HD 40 MC	1601710000	B.64	HDC HE 24 FT	1745790000	B.26
HDC 64D TOLU 1M25G	1786870000	E.38	HDC CM HV 3 MC	1862080000	D.9	HDC HD 40 MC	1601710000	B.58	HDC HE 24 FT 25-48	1745810000	B.30
HDC 64D TOLU 1M32G	1786860000	E.38	HDC CM ST F	1157980000	D.21	HDC HD 64 FC	1601740000	B.66	HDC HE 24 MC	1211500000	B.30
HDC 64D TOLU 1M40G	1983470000	E.38	HDC CM ST M	1157970000	D.21	HDC HD 64 FC	1601740000	B.62	HDC HE 24 MC	1211500000	B.26
HDC 64D TOLU 1M50G	1111170000	E.38	HDC DG 06B	1044610000	J.25	HDC HD 64 MC	1601720000	B.66	HDC HE 24 MC 25-48	1226400000	B.30
HDC 64D TOLU 1PG21G	1662610000	E.38	HDC DG 07A	1044580000	J.25	HDC HD 64 MC	1601720000	B.62	HDC HE 24 MP	1873590000	L.23
HDC 64D TOLU 1PG29G	1662630000	E.38	HDC DG 10A	1044590000	J.25	HDC HD 7 FC	1650580000	B.46	HDC HE 24 MP	1873590000	L.22
HDC 64D TSOB 1M25G	1786800000	E.40	HDC DG 10B	1044620000	J.25	HDC HD 7 MC	1650570000	B.46	HDC HE 24 MP	1873590000	B.30
HDC 64D TSOB 1M32G	1786790000	E.40	HDC DG 16A	1044600000	J.25	HDC HD 8 FC	1650600000	B.48	HDC HE 24 MP	1873590000	B.26
HDC 64D TSOB 1PG21G	1661940000	E.40	HDC DG 16B	1044630000	J.25	HDC HD 8 MC	1650590000	B.48	HDC HE 24 MP 25-48	1875890000	B.30
HDC 64D TSOB 1PG29G	1661960000	E.40	HDC DG 24B	1044650000	J.25	HDC HDD 108 FC	1651220000	B.80	HDC HE 24 MS	1211100000	L.27
HDC 64D TSBU 1M25G	1786780000	E.36	HDC DG 32A	1044640000	J.25	HDC HDD 108 FC	1651220000	B.76	HDC HE 24 MS	1211100000	L.26
HDC 64D TSBU 1M25G	1786780000	D.39	HDC DG 48A 32B	1044660000	J.25	HDC HDD 108 FC 109-216	1651300000	B.80	HDC HE 24 MS	1211100000	L.21
HDC 64D TSBU 1M25G	1786780000	O.37	HDC DG 48B	1044670000	J.25	HDC HDD 108 MC	1651210000	B.80	HDC HE 24 MS	1211100000	L.20
HDC 64D TSBU 1M25G	1786780000	B.135	HDC FIXING SC SIZE1 M3x6	1168850000	J.21	HDC HDD 108 MC	1651210000	B.76	HDC HE 24 MS	1211100000	B.30
HDC 64D TSBU 1M25G	1786780000	B.133	HDC FIXING SCREW M3x10	1029510000	J.21	HDC HDD 108 MC 109-216	1651280000	B.80	HDC HE 24 MS	1211100000	B.26
HDC 64D TSBU 1M25G	1786780000	B.131	HDC FLDG 04A	1044480000	J.25	HDC HDD 24 FC	1651160000	B.70	HDC HE 24 MS 25-48	1220800000	L.27
HDC 64D TSBU 1M25G	1786780000	B.89	HDC FLDG 06B	1044500000	J.25	HDC HDD 24 MC	1651150000	B.70	HDC HE 24 MS 25-48	1220800000	L.26
HDC 64D TSBU 1M25G	1786780000	B.77	HDC FLDG 10A	1044490000	J.25	HDC HDD 42 FC	1651180000	B.72	HDC HE 24 MS 25-48	1220800000	B.30
HDC 64D TSBU 1M25G	1786780000	B.63	HDC FLDG 10B	1044510000	J.25	HDC HDD 42 MC	1651170000	B.72	HDC HE 24 MT	1745850000	B.30
HDC 64D TSBU 1M25G	1786780000	B.41	HDC FLDG 16A	1044520000	J.25	HDC HDD 72 FC	1651200000	B.78	HDC HE 24 MT	1745850000	B.26
HDC 64D TSBU 1M25G	1786780000	B.27	HDC FLDG 16B	1044530000	J.25	HDC HDD 72 FC	1651200000	B.74	HDC HE 24 MT 25-48	1745870000	B.30
HDC 64D TSBU 1M32G	1786770000	E.36	HDC FLDG 24B	1044550000	J.25	HDC HDD 72 FC 73-144	1651260000	B.78	HDC HE 6 FS	1201000000	B.20
HDC 64D TSBU 1M32G	1786770000	O.39	HDC FLDG 32A	1044540000	J.25	HDC HDD 72 MC	1651190000	B.78	HDC HE 6 FP	1873520000	L.11
HDC 64D TSBU 1M32G	1786770000	D.37	HDC FLDG 32B	1044560000	J.25	HDC HDD 72 MC	1651190000	B.74	HDC HE 6 FP	1873520000	L.10
HDC 64D TSBU 1M32G	1786770000	B.135	HDC FLDG 48B	1044570000	J.25	HDC HDD 72 MC 73-144	1651240000	B.78	HDC HE 6 FP	1873520000	B.20
HDC 64D TSBU 1M32G	1786770000	B.133	HDC GRIP PANEL 8 SC	1934770000	J.21	HDC HE 10 FC	1204400000	B.22	HDC HE 6 FS	1200200000	L.9
HDC 64D TSBU 1M32G	1786770000	B.131	HDC HA 10 FC	1873860000	B.10	HDC HE 10 FP	1873540000	L.15	HDC HE 6 FS	1200200000	L.8
HDC 64D TSBU 1M32G	1786770000	B.89	HDC HA 10 FS	1650620000	B.10	HDC HE 10 FP	1873540000	L.14	HDC HE 6 FS	1200200000	B.20
HDC 64D TSBU 1M32G	1786770000	B.77	HDC HA 10 FT	1896780000	B.10	HDC HE 10 FP	1873540000	B.22	HDC HE 6 FT	1745760000	B.20
HDC 64D TSBU 1M32G	1786770000	B.63	HDC HA 10 MC	1873870000	B.10	HDC HE 10 FS	1204100000	L.13	HDC HE 6 MC	1200400000	B.20
HDC 64D TSBU 1M32G	1786770000	B.41	HDC HA 10 MS	1650610000	B.10	HDC HE 10 FS	1204100000	L.12	HDC HE 6 MP	1873530000	L.11
HDC 64D TSBU 1M32G	1786770000	B.27	HDC HA 10 MT	1896790000	B.10	HDC HE 10 FS	1204100000	B.22	HDC HE 6 MP	1873530000	L.10
HDC 64D TSBU 1M40G	1809630000	E.36	HDC HA 16 FC	1873880000	B.16	HDC HE 10 FT	1745770000	B.22	HDC HE 6 MP	1873530000	B.20
HDC 64D TSBU 1M50G	1111130000	E.36	HDC HA 16 FC	1873880000	B.14	HDC HE 10 MC	1204300000	B.22	HDC HE 6 MS	1200000000	L.9
HDC 64D TSBU 1PG21G	1661300000	E.36	HDC HA 16 FC	1873880000	B.12	HDC HE 10 MC	1204300000	B.22	HDC HE 6 MS	1200000000	L.8
HDC 64D TSBU 1PG29G	1661320000	E.36	HDC HA 16 FC 17 - 32	1876040000	B.16	HDC HE 10 MP	1873550000	L.14	HDC HE 6 MS	1200000000	B.20
HDC 64D TSLU 1M32G	1786810000	E.38	HDC HA 16 FC 17 - 32	1876040000	B.14	HDC HE 10 MP	1873550000	B.22	HDC HE 6 MT	1745820000	B.20
HDC 64D TSLU 1M40G	1804610000	E.38	HDC HA 16 FC 33 - 48	1875540000	B.16	HDC HE 10 MS	1203900000	L.13	HDC HE CP	1003240000	L.15
HDC 64D TSLU 1M50G	1111150000	E.38	HDC HA 16 FS	1650780000	B.16	HDC HE 10 MS	1203900000	L.12	HDC HE CP	1003240000	B.102
HDC 64D TSLU 1PG21G	1662470000	E.38	HDC HA 16 FS	1650780000	B.14	HDC HE 10 MS	1203900000	B.22	HDC HE CP	1003240000	B.94
HDC 64D TSLU 1PG29G	1662490000	E.38	HDC HA 16 FS	1650780000	B.12	HDC HE 10 MT	1745830000	B.22	HDC HEE 10 BCM	1826840000	B.38
HDC 64D TSSO 1M40G	1904690000	E.41	HDC HA 16 FS 17-32	1650900000	B.16	HDC HE 16 FC	1208000000	B.28	HDC HEE 10 SCM	1826830000	B.34
HDC 64D TSSO 1PG21G	1663370000	E.41	HDC HA 16 FS 17-32	1650900000	B.14	HDC HE 16 FC	1208000000	B.24	HDC HEE 18 BCM	1826820000	B.36
HDC 64D TSSO 1PG29G	1663390000	E.41	HDC HA 16 FS 33-48	1651020000	B.16	HDC HE 16 FC 17-32	1216700000	B.28	HDC HEE 18 SCM	1826810000	B.36
HDC ADAPTER W. SCREW	1017010000	J.23	HDC HA 16 FT	1896800000	B.16	HDC HE 16 FP	1873560000	L.19	HDC HEE 32 BCM	1826800000	B.42
HDC C HX BM1.5AG	1002950000	J.5	HDC HA 16 FT	1896800000	B.14	HDC HE 16 FP	1873560000	L.18	HDC HEE 32 BCM	1826800000	B.38
HDC C HX BM2.5AG	1002960000	J.5	HDC HA 16 FT	1896800000	B.12	HDC HE 16 FP	1873560000	B.28	HDC HEE 32 BCM 33-64	1018960000	B.42
HDC C HX BM4.0AG	1002970000	J.5	HDC HA 16 FT 17-32	1896810000	B.16	HDC HE 16 FP	1873560000	B.24	HDC HEE 32 SCM	1826790000	B.42
HDC C HX BM6.0AG	1002980000	J.5	HDC HA 16 FT 17-32	1896810000	B.14	HDC HE 16 FP 17-32	1875740000	B.28	HDC HEE 32 SCM	1826790000	B.38
HDC C HX SM1.5AG	1002910000	J.5	HDC HA 16 FT 33-48	1896820000	B.16	HDC HE 16 FS	1207700000	L.25	HDC HEE 32 SCM 33-64	1018950000	B.42
HDC C HX SM2.5AG	1002920000	J.5	HDC HA 16 MC	1873890000	B.16	HDC HE 16 FS	1207700000	L.24	HDC HEE 46 BCM	1826780000	B.40
HDC C HX SM4.0AG	1002930000	J.5	HDC HA 16 MC	1873890000	B.14	HDC HE 16 FS	1207700000	L.17	HDC HEE 46 SCM	1826770000	B.40
HDC C HX SM6.0AG	1002940000	J.5	HDC HA 16 MC	1873890000	B.12	HDC HE 16 FS	1207700000	L.16	HDC HP 250 F 25	1079720000	J.6
HDC CFM 10 3F	1983860000	D.30	HDC HA 16 MC 17 - 32	1875620000	B.16	HDC HE 16 FS	1207700000	B.28	HDC HP 250 F 35	1079720000	C.6
HDC CFM 10 3M	1983850000	D.30	HDC HA 16 MC 17 - 32	1875620000	B.14	HDC HE 16 FS	1207700000	B.24	HDC HP 250 F 45	1079730000	J.6
HDC CFM 16 5F	1983880000	D.30	HDC HA 16 MC 33 - 48	1875630000	B.16	HDC HE 16 FS 17-32	1216100000	L.25	HDC HP 250 F 35	1079730000	C.6
HDC CFM 16 5M	1983870000	D.30	HDC HA 16 MS	1650770000	B.16	HDC HE 16 FS 17-32	1216100000	L.24	HDC HP 250 F 50	1079740000	J.6
HDC CFM 24 7F	1983900000	O.38	HDC HA 16 MS	1650770000	B.14	HDC HE 16 FS 17-32	1216100000	B.28	HDC HP 250 F 50	1079740000	C.6
HDC CFM 24 7M	1983890000	O.38	HDC HA 16 MS	1650770000	B.12	HDC HE 16 FT	1745780000	B.28	HDC HP 250 F 50 PE	1220840000	C.6
HDC CFM 6 2F	1983840000	D.26	HDC HA 16 MS 17-32	1650880000	B.16	HDC HE 16 FT	1745780000	B.24	HDC HP 250 F 70	1079750000	J.6
HDC CFM 6 2M	1983830000	D.26	HDC HA 16 MS 17-32	1650880000	B.14	HDC HE 16 FT 17-32	1745800000	B.28	HDC HP 250 F 70	1079750000	C.6
HDC CM 1 FS +PE	1828410000	D.10	HDC HA 16 MS 33-48	1650990000	B.16	HDC HE 16 MC	1207900000	B.28	HDC HP 250 F 95	1079770000	J.6
HDC CM 1 MS +PE	1828390000	D.10	HDC HA 16 MT	1896830000	B.16	HDC HE 16 MC	1207900000	B.24	HDC HP 250 F 95	1079770000	C.6
HDC CM 10 FC	1758410000	D.8	HDC HA 16 MT	1896830000	B.14	HDC HE 16 MC 17-32	1216500000	B.28	HDC HP 250 M 25	1079690000	J.6
HDC CM 10 MC	1758400000	D.8	HDC HA 16 MT	1896830000	B.12	HDC HE 16 MP	1873570000	L.19	HDC HP 250 M 25	1079690000	C.6
HDC CM 2 FS	1828400000	D.10	HDC HA 16 MT 17-32	1896840000	B.16	HDC HE 16 MP	1873570000	L.18	HDC HP 250 M 35	1079680000	J.6
HDC CM 2 MS	1828380000	D.10	HDC HA 16 MT 17-32	1896840000	B.14	HDC HE 16 MP	1873570000	B.28	HDC HP 250 M 35	1079680000	C.6
HDC CM 3 FC	1758370000	D.4	HDC HA 16 MT 33-48	1896850000	B.16	HDC HE 16 MP	1873570000	B.24	HDC HP 250 M 50	1119080000	J.6
HDC CM 3 MC	1758360000	D.4	HDC HA 3 FS	1498200000	L.5	HDC HE 16 MP 17-32	1875800000	B.28	HDC HP 250 M 50	1119080000	C.6
HDC CM 5 FC	1758390000	D.7	HDC HA 3 FS	1498200000	L.4	HDC HE 16 MS	1207500000	L.25	HDC HP 250 M 50 PE	1220850000	C.6
HDC CM 5 MC	1758380000	D.7	HDC HA 3 FS	1498200000	B.6	HDC HE 16 MS	1207500000	L.24	HDC HP 250 M 70	1119090000	J.6
HDC CM BUS 2BS T PBDP	1806030000	D.15	HDC HA 3 MS	1498100000	L.5	HDC HE 16 MS	1207500000	L.17	HDC HP 250 M 70	1119090000	C.6
HDC CM BUS 2SS PBDP	1806060000	D.15	HDC HA 3 MS	1498100000	L.4	HDC HE 16 MS	1207500000	L.16	HDC HP 250 M 95	1119100000	J.6
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HDC-C-HE-SM4.0AU	1651460000	J.9
HDC-C-HE-SM4.0AU	1651460000	J.4
HDC-C-HE-SM4.0AU	1651460000	H.6
HDC-C-HE-SM4.65AU	1116540000	J.9
HDC-C-HE-SM4.65AU	1116540000	J.4
HDC-C-HE-SM4.65AU	1116540000	H.6
HDC-C-HE-SM4.65AU	1116540000	D.18
HDC-CM-1BPN2.5	1894780000	D.23
HDC-CM-1BPN4.0	1894720000	D.23
HDC-CM-1SPN2.5	1894730000	D.23
HDC-CM-1SPN4.0	1894740000	D.23
HDC-CM-2BPN2.5	1894750000	D.23
HDC-CM-2BPN4.0	1894760000	D.23
HDC-CM-2SPN2.5	1894770000	D.23
HDC-CM-2SPN4.0	1894710000	D.23
HDC-C-M3-BM1.5AG	1698130000	J.8
HDC-C-M3-BM1.5AG	1698130000	D.9
HDC-C-M3-BM1.5AG	1698130000	D.4
HDC-C-M3-BM10.0AG	1682310000	J.8
HDC-C-M3-BM10.0AG	1682310000	D.9
HDC-C-M3-BM10.0AG	1682310000	D.4
HDC-C-M3-BM2.5AG	1698150000	J.8
HDC-C-M3-BM2.5AG	1698150000	D.9
HDC-C-M3-BM2.5AG	1698150000	D.4
HDC-C-M3-BM2.5AG	1682270000	J.8
HDC-C-M3-BM4.0AG	1682270000	D.9
HDC-C-M3-BM4.0AG	1682270000	D.4
HDC-C-M3-BM6.0AG	1682290000	J.8
HDC-C-M3-BM6.0AG	1682290000	D.9
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HDC-C-M3-SM1.5AG	1698120000	D.9
HDC-C-M3-SM1.5AG	1698120000	D.4
HDC-C-M3-SM10.0AG	1682300000	J.8
HDC-C-M3-SM10.0AG	1682300000	D.9
HDC-C-M3-SM10.0AG	1682300000	D.4
HDC-C-M3-SM2.5AG	1698140000	J.8
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HDC-C-M3-SM2.5AG	1698140000	D.4
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HDC-C-M3-SM4.0AG	1682260000	D.4
HDC-C-M3-SM6.0AG	1682280000	J.8
HDC-C-M3-SM6.0AG	1682280000	D.9
HDC-C-M3-SM6.0AG	1682280000	D.4
HDC-CM-4BZF AG	1730130000	D.6
HDC-CM-4SZF AG	1730120000	D.6
HDC-C-M5-BM0.5AG	1682330000	J.8
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HDC-C-M5-BM0.75-1.0AG	1682350000	J.8
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HDC-C-M5-SM1.5AG	1682360000	J.8
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HDC-C-M5-SM4.0AG	1682400000	D.7
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HDC-CR16-5B-2 GR	1758530000	D.40
HDC-CR16-5S GR	1758480000	D.40
HDC-CR16-5S GR	1758480000	D.32
HDC-CR16-5S-2 GR	1758520000	D.40
HDC-CR24-7B GR	1758510000	D.42
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VG M16-1/MS68	1909910000	L.13
VG M20 - MS 1/EMV	1909510000	L.15
VG M20 - MS 68	1772220000	L.13
VG M20 - MS 68	1772220000	I.10
VG M20 - MS 68	1772220000	L.8
VG M20 - MS 68	1772220000	I.6
VG M20 - MS 68	1772220000	L.4
VG M20-1/K68	1772300000	L.5
VG M20-1/K68	1772300000	L.6
VG M20-1/K68	1772300000	L.4
VG M20-EXE MS	1737220000	L.17
VG M20-MSS4 ZR 4-13	1009560000	L.8
VG M25 - K 68	1772310000	L.5
VG M25 - MS 1/EMV	1909520000	L.15
VG M25 - MS 68	1772230000	L.13
VG M25 - MS 68	1772230000	I.18
VG M25 - MS 68	1772230000	I.16
VG M25 - MS 68	1772230000	L.14
VG M25 - MS 68	1772230000	I.12
VG M25-1/K68	1909870000	L.5
VG M25-1/MS68	1909920000	L.13
VG M25-EXE MS	1737230000	L.17
VG M25-MSS4 ZR 8.5-18	1009570000	L.8
VG M32 - K 68	1772320000	L.5
VG M32 - MS 1/EMV	1909530000	L.15
VG M32 - MS 68	1772240000	L.13
VG M32 - MS 68	1772240000	I.24
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VG M32 - MS 68	1772240000	I.20
VG M32-1/K68	1909880000	L.5
VG M32-1/MS68	1909930000	L.13
VG M32-EXE MS	1737240000	L.17
VG M32-MSS4 ZR 16-26	1009580000	L.8
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VG M40 - MS 68	1772250000	L.13
VG M40 - MS 68	1772250000	I.26
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VG M40-1/MS68	1909940000	L.13
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VG M50-1/MS68	1909950000	L.13
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1119910000	HDC 24B SL 2X150	C.13
1119920000	HDC 24B SL 2X240	C.13
1119950000	HDC IP68 24B MD	C.12
1119950000	HDC IP68 24B MD	C.7
1119970000	HDC IP68 24B MD 3M40	C.12
1119970000	HDC IP68 24B MD 3M40	C.7
1119980000	HDC IP68 24B MD 3M32	C.12
1119980000	HDC IP68 24B MD 3M32	C.7
1119990000	HDC IP68 24B MD 2M40	C.12
1119990000	HDC IP68 24B MD 2M40	C.7

1120000000

1120000000	HDC IP68 24B MD 2M32	C.12
1120000000	HDC IP68 24B MD 2M32	C.7
1120010000	HDC IP68 24B MD 2M25	C.12
1120010000	HDC IP68 24B MD 2M25	C.7
1120040000	HDC IP68 HP24 A	C.12
1120040000	HDC IP68 HP24 A	C.6
1120130000	HDC HP 250 SHOCKPROTEC	C.7
1120140000	HDC HP 550 SHOCKPROTEC	C.13
1120580000	HDC HP 550 M 185	J.7
1120580000	HDC HP 550 M 185	C.12
1120590000	HDC HP 550 M 240	J.7
1120590000	HDC HP 550 M 240	C.12
1120600000	HDC HP 550 F 240	J.7
1120600000	HDC HP 550 F 240	C.12

1130000000

1131380000	IE-BI-USB-AB	H.14
1131800000	SM 27/27 K MC NE GE	M.5
1131810000	SM 27/12.5 K MC NE GE	M.5
1131820000	SM 27/8 K MC NE GE	M.5
1131830000	SM 22/22 K MC NE GE	M.5
1131890000	CC 15/60 K MC NE GE	M.6
1131910000	CC 15/27 K MC NE GE	M.6
1131920000	CC 15/17 K MC NE GE	M.6
1131970000	CC 15/49 K MC NE GE	M.6
1132010000	IE-PI-RJ45-FH-A	H.12
1132010000	IE-PI-RJ45-FH-A	D.21
1132020000	IE-PI-RJ45-FH-B	H.12
1132020000	IE-PI-RJ45-FH-B	D.21
1132030000	IE-PI-RJ45-FH-P	H.12
1132030000	IE-PI-RJ45-FH-P	D.21
1137720000	HDC 04A CSB MALE	H.4
1137760000	HDC 04A CSB FEMALE	H.4
1138430000	CC 85/54 K MC NE WS	M.6
1138440000	CC 85/54 K MC NE GE	M.6
1138450000	CC 85/54 K MC NE GR	M.6
1138470000	CC 85/54 K MC SDR	M.6
1139400000	MCP BASIC	M.12
1139880000	MCP AP BASIC	M.13
1139890000	MCP TP-KOF BASIC	M.13

1150000000

1157800000	HDC HP 550 M 50	J.7
1157800000	HDC HP 550 M 50	C.12
1157970000	HDC CM ST M	D.21
1157980000	HDC CM ST F	D.21

1160000000

1160390000	HDC 24B SL 3X16-25	C.7
1160400000	HDC 24B SL 3X50	C.13
1160400000	HDC 24B SL 3X50	C.7
1160410000	HDC 24B SL 2X16-25	C.7
1160420000	HDC 24B SL 2X50	C.13
1160420000	HDC 24B SL 2X50	C.7
1160430000	HDC 24B HP250 MPL4 TYP1	J.14

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1160430000	HDC 24B HP250 MPL4 TYP1	C.7
1160440000	HDC 24B HP250 MPL4 TYP2	J.14
1160440000	HDC 24B HP250 MPL4 TYP2	C.7
1160450000	HDC IP68 24B MD 4M25 T1	C.7
1165790000	HDC 32B DODO 4BO	E.45
1168850000	HDC FIXING SC SIZE1 M3x6	J.21

1170000000

1177100000	HDC HP 550 F 50	J.7
1177100000	HDC HP 550 F 50	C.12

1190000000

1190490000	multi-stripax® PV	K.9
1193570000	VGM25-SS68 11-20 BG	C.13
1193570000	VGM25-SS68 11-20 BG	C.8
1193580000	VGM32-SS68 15-25 BG	C.13
1193580000	VGM32-SS68 15-25 BG	C.8
1193590000	VGM40-SS68 20-32 BG	C.13
1193590000	VGM40-SS68 20-32 BG	C.8
1193600000	VGM25-MS68 11-20 BG	C.13
1193600000	VGM25-MS68 11-20 BG	C.8
1193610000	VGM32-MS68 15-25 BG	C.13
1193610000	VGM32-MS68 15-25 BG	C.8
1193620000	VGM40-MS68 20-32 BG	C.13
1193620000	VGM40-MS68 20-32 BG	C.8

1200000000

1200000000	HDC HE 6 MS	I.9
1200000000	HDC HE 6 MS	I.8
1200000000	HDC HE 6 MS	B.20
1200200000	HDC HE 6 FS	I.9
1200200000	HDC HE 6 FS	I.8
1200200000	HDC HE 6 FS	B.20
1200400000	HDC HE 6 MC	B.20
1200500000	HDC-C-HE-SM0.5AG	J.9
1200500000	HDC-C-HE-SM0.5AG	J.4
1200500000	HDC-C-HE-SM0.5AG	H.6
1200600000	HDC-C-HE-SM0.75-1.00AG	J.9
1200600000	HDC-C-HE-SM0.75-1.00AG	J.4
1200600000	HDC-C-HE-SM0.75-1.00AG	H.6
1200700000	HDC-C-HE-SM1.5AG	J.9
1200700000	HDC-C-HE-SM1.5AG	J.4
1200700000	HDC-C-HE-SM1.5AG	H.6
1200800000	HDC-C-HE-SM2.5AG	J.9
1200800000	HDC-C-HE-SM2.5AG	J.4
1200800000	HDC-C-HE-SM2.5AG	H.6
1200900000	HDC-C-HE-SM4.0AG	J.9
1200900000	HDC-C-HE-SM4.0AG	J.4
1200900000	HDC-C-HE-SM4.0AG	H.6
1201000000	HDC HE 6 FC	B.20
1201100000	HDC-C-HE-BM0.5AG	J.9
1201100000	HDC-C-HE-BM0.5AG	J.4
1201100000	HDC-C-HE-BM0.5AG	H.6
1201200000	HDC-C-HE-BM0.75-1.00AG	J.9
1201200000	HDC-C-HE-BM0.75-1.00AG	J.4
1201200000	HDC-C-HE-BM0.75-1.00AG	H.6
1201300000	HDC-C-HE-BM1.5AG	J.9
1201300000	HDC-C-HE-BM1.5AG	J.4
1201300000	HDC-C-HE-BM1.5AG	H.6
1201400000	HDC-C-HE-BM2.5AG	J.9
1201400000	HDC-C-HE-BM2.5AG	J.4
1201400000	HDC-C-HE-BM2.5AG	H.6
1201500000	HDC-C-HE-BM4.0AG	J.9
1201500000	HDC-C-HE-BM4.0AG	J.4
1201500000	HDC-C-HE-BM4.0AG	H.6
1202100000	HDC 06B ADLU	I.11
1202100000	HDC 06B ADLU	I.10
1202100000	HDC 06B ADLU	I.9
1202100000	HDC 06B ADLU	I.8
1202100000	HDC 06B ADLU	E.15
1202100000	HDC 06B ADLU	D.27
1202100000	HDC 06B ADLU	D.25
1202100000	HDC 06B ADLU	B.115
1202100000	HDC 06B ADLU	B.71
1202100000	HDC 06B ADLU	B.53
1202100000	HDC 06B ADLU	B.35
1202100000	HDC 06B ADLU	B.21
1202500000	HDC 06B ADLU	E.15
1202500000	HDC 06B ADLU	D.27
1202500000	HDC 06B ADLU	D.25
1202500000	HDC 06B ADLU	B.115
1202500000	HDC 06B ADLU	B.71
1202500000	HDC 06B ADLU	B.53
1202500000	HDC 06B ADLU	B.35
1202500000	HDC 06B ADLU	B.

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1213300000	HDC 24B ADBO	E.40
1213900000	HDC 24B ALU	E.39
1214300000	HDC 24B ADLU	E.39
1214500000	HDC 24B SDLU 2PG21G	E.39
1215700000	HDC HE 16 MS 17-32	I.25
1215700000	HDC HE 16 MS 17-32	I.24
1215700000	HDC HE 16 MS 17-32	B.28
1215900000	HDC 06B DC	J.26
1215910000	HDC 10B DC	J.26
1215920000	HDC 16B DC	J.26
1215930000	HDC 24B DC	J.26
1216100000	HDC HE 16 FS 17-32	I.25
1216100000	HDC HE 16 FS 17-32	I.24
1216100000	HDC HE 16 FS 17-32	B.28
1216500000	HDC HE 16 MC 17-32	B.28
1216700000	HDC HE 16 FC 17-32	B.28
1217800000	HDC 32B ABU	I.25
1217800000	HDC 32B ABU	I.24
1217800000	HDC 32B ABU	E.45
1218800000	HDC 32B ADBO	E.48
1219300000	HDC 32B TOLU 1PG29G	E.46
1219500000	HDC 32B ALU	E.47
1219500000	HDC 32B ALU	D.41
1219500000	HDC 32B ALU	B.95
1219500000	HDC 32B ALU	B.79
1219500000	HDC 32B ALU	B.65
1219500000	HDC 32B ALU	B.43
1219500000	HDC 32B ALU	B.29
1219800000	HDC 32B ADLU	E.47
1219800000	HDC 32B ADLU	D.41
1219800000	HDC 32B ADLU	B.95
1219800000	HDC 32B ADLU	B.79
1219800000	HDC 32B ADLU	B.65
1219800000	HDC 32B ADLU	B.43
1219800000	HDC 32B ADLU	B.29

1220000000

1220750000	HDC 24B SL 4X95 T1	C.7
1220760000	HDC 24B SL 4X50 T1	C.7
1220770000	HDC 24B SL 4X16-25 T1	C.7
1220790000	HDC 24B SL 4X95 T2	C.7
1220800000	HDC HE 24 MS 25-48	I.27
1220800000	HDC HE 24 MS 25-48	I.26
1220800000	HDC HE 24 MS 25-48	B.30
1220810000	HDC 24B SL 4X50 T2	C.7
1220820000	HDC 24B SL 4X16-25 T2	C.7
1220840000	HDC HP 250 F 50 PE	C.6
1220850000	HDC HP 250 M 50 PE	C.6
1220860000	HDC IP68 24B MD 4M25 T2	C.7
1221200000	HDC HE 24 FS 25-48	I.27
1221200000	HDC HE 24 FS 25-48	I.26
1221200000	HDC HE 24 FS 25-48	B.30
1222900000	HDC 48B ADLU	I.27
1222900000	HDC 48B ADLU	I.26
1222900000	HDC 48B ADLU	E.49
1222900000	HDC 48B ADLU	D.43
1222900000	HDC 48B ADLU	B.81
1222900000	HDC 48B ADLU	B.67
1222900000	HDC 48B ADLU	B.31
1226400000	HDC HE 24 MC 25-48	B.30
1226600000	HDC HE 24 FC 25-48	B.30

1230000000

1232680000	HDC 24B SL 3X120	C.13
1232690000	HDC 24B SL 3X185	C.13
1232700000	HDC 24B SL 2X120	C.13
1232710000	HDC 24B SL 2X185	C.13
1232720000	HDC 24B SL 3X35	C.7
1232730000	HDC 24B SL 3X70	C.13
1232730000	HDC 24B SL 3X70	C.7
1232740000	HDC 24B SL 2X35	C.7
1232750000	HDC 24B SL 2X70	C.13
1232750000	HDC 24B SL 2X70	C.7
1232760000	HDC 24B SL 4X70 T1	C.7
1232770000	HDC 24B SL 4X35 T1	C.7
1232780000	HDC 24B SL 4X70 T2	C.7
1232790000	HDC 24B SL 4X35 T2	C.7

1240000000

1248550000	SM 18/9.5 K MC SDR	M.5
1248560000	SM 19/42 K MC SDR	M.5
1248580000	SM 18/9.5 K MC NE WS	M.5
1248590000	SM 18/9.5 K MC NE GE	M.5
1248610000	SM 18/9.5 K MC NE GR	M.5
1248620000	SM 19/42 K MC NE WS	M.5
1248630000	SM 19/42 K MC NE GE	M.5
1248640000	SM 19/42 K MC NE GR	M.5

1270000000

1271250000	IE-PS-V05M-RJ45-FH-B	H.10
1276230000	THM BASIC 300	M.14

1280000000

1282820000	HDC IP68 24B HP FRAME	C.12
1282820000	HDC IP68 24B HP FRAME	C.6

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1288320000	CC 15/17 K MC NE RT	M.6
1288330000	CC 15/27 K MC NE RT	M.6
1288340000	CC 15/60 K MC NE RT	M.6
1288380000	CC 15/49 K MC NE RT	M.6
1288390000	CC 85/54 K MC NE RT	M.6

1470000000

1471300000	DSTV COST4	J.13
1471500000	DSTV COB05	J.13

1490000000

1497600000	HDC 04A ALU	I.7
1497600000	HDC 04A ALU	I.6
1497600000	HDC 04A ALU	I.5
1497600000	HDC 04A ALU	I.4
1497600000	HDC 04A ALU	H.7
1497600000	HDC 04A ALU	E.7
1497600000	HDC 04A ALU	B.101
1497600000	HDC 04A ALU	B.99
1497600000	HDC 04A ALU	B.9
1497700000	HDC 04A ALU	B.7
1497700000	HDC 04A AWLU	I.6
1497700000	HDC 04A AWLU	I.7
1497700000	HDC 04A AWLU	I.5
1497700000	HDC 04A AWLU	I.4
1497700000	HDC 04A AWLU	E.7
1498100000	HDC HA 3 MS	I.5
1498100000	HDC HA 3 MS	I.4
1498100000	HDC HA 3 MS	B.6
1498300000	HDC HA 4 MS	I.7
1498300000	HDC HA 4 MS	I.6
1498300000	HDC HA 4 MS	B.8
1498400000	HDC HA 4 FS	I.7
1498400000	HDC HA 4 FS	I.6
1498400000	HDC HA 4 FS	B.16
1498700000	HDC HSB 6 MS	I.28
1498700000	HDC HSB 6 MS	B.94
1498700000	HDC HSB 6 MS	B.92
1498800000	HDC HSB 6 MS 7 - 12	B.94
1498900000	HDC HSB 6 FS	I.28
1498900000	HDC HSB 6 FS	B.94
1498900000	HDC HSB 6 FS	B.92
1499000000	HDC HSB 6 FS 7 - 12	B.94

1560000000

1568980000	VG 9-K68	L.5
1568990000	VG 11-K68	L.5
1568990000	VG 11-K68	L.7
1568990000	VG 11-K68	L.5
1568990000	VG 11-K68	L.5
1569000000	VG 13.5-K68	L.5
1569010000	VG 16-K68	L.5
1569020000	VG 21-K68	L.5
1569030000	VG 29-K68	L.5
1569040000	VG 36-K68	L.5
1569050000	VG 42-K68	L.5
1569070000	VG 9-MS68	L.13
1569080000	VG 11-MS68	L.13
1569080000	VG 11-MS68	I.7
1569080000	VG 11-MS68	L.5
1569090000	VG 13.5-MS68	L.13
1569100000	VG 16-MS68	L.13
1569100000	VG 16-MS68	I.15
1569100000	VG 16-MS68	I.13
1569100000	VG 16-MS68	I.11
1569100000	VG 16-MS68	L.19
1569110000	VG 21-MS68	I.17
1569120000	VG 29-MS68	L.13
1569120000	VG 29-MS68	I.27
1569120000	VG 29-MS68	I.25
1569130000	VG 36-MS68	L.13
1569140000	VG 42-MS68	L.13

1590000000

1595220000	DSTV TS 6-24	J.22
1595230000	DSTV TS 6 VH	J.22
1595240000	DSTV TS 10-24 VH	J.22

1600000000

1601710000	HDC HD 40 MC	B.64
1601710000	HDC HD 40 MC	B.58
1601720000	HDC HD 64 MC	B.66
1601720000	HDC HD 64 MC	B.62
1601730000	HDC HD 40 FC	B.64
1601730000	HDC HD 40 FC	B.58
1601740000	HDC HD 64 FC	B.66
1601740000	HDC HD 64 FC	B.62
1601750000	HDC-C-HD-SM0.75-1.00AG	J.9

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1601750000	HDC-C-HD-SM0.75-1.00AG	J.4
1601750000	HDC-C-HD-SM0.75-1.00AG	H.5
1601760000	HDC-C-HD-SM0.75-1.00AG	J.9
1601760000	HDC-C-HD-BM0.75-1.00AG	J.4
1601760000	HDC-C-HD-BM0.75-1.00AG	H.5

1610000000

1611350000	HDC 24B AZO	E.41
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1650000000

1650570000	HDC HD 7 MC	B.46
1650580000	HDC HD 7 FC	B.46
1650590000	HDC HD 8 MC	B.48
1650600000	HDC HD 8 FC	B.48
1650610000	HDC HA 10 MS	B.10
1650620000	HDC HA 10 FS	B.10
1650650000	HDC HD 15 MC	B.50
1650660000	HDC HD 15 FC	B.50
1650710000	HDC HD 16 MC	B.52
1650720000	HDC HD 16 FC	B.52
1650770000	HDC HA 16 MS	B.16
1650770000	HDC HA 16 MS	B.14
1650770000	HDC HA 16 MS	B.12
1650780000	HDC HA 16 FS	B.16
1650780000	HDC HA 16 FS	B.14
1650780000	HDC HA 16 FS	B.12
1650810000	HDC HD 25 MC	B.60
1650810000	HDC HD 25 MC	B.56
1650820000	HDC HD 25 FC	B.60
1650820000	HDC HD 25 FC	B.56
1650850000	HDC 48B TSLU 1PG29G	I.27
1650850000	HDC 48B TSLU 1PG29G	E.49
1650860000	HDC 48B TSLU 1PG36G	E.49
1650870000	HDC HD 24 MC	B.54
1650880000	HDC HA 16 MS 17-32	B.16
1650880000	HDC HA 16 MS 17-32	B.14
1650890000	HDC HD 24 FC	B.54
1650900000	HDC HA 16 FS 17-32	B.16
1650900000	HDC HA 16 FS 17-32	B.14
1650900000	HDC 48B TOLU 1PG29G	E.49
1650900000	HDC HA 16 MS 33-48	B.16
1651000000	HDC 48B TOLU 1PG36G	E.49
1651020000	HDC HA 16 FS 33-48	B.16
1651100000	HDC 48B SLU 1PG29G	E.49
1651150000	HDC HDD 24 MC	B.70
1651160000	HDC HDD 24 FC	B.70
1651170000	HDC HDD 42 MC	B.72
1651180000	HDC HDD 42 FC	B.72
1651190000	HDC HDD 72 MC	B.78
1651190000	HDC HDD 72 MC	B.74
1651200000	HDC HDD 72 FC	B.78
1651200000	HDC HDD 72 FC	B.74
1651210000	HDC HDD 108 MC	B.80
1651210000	HDC HDD 108 MC	B.76
1651220000	HDC HDD 108 FC	B.80
1651220000	HDC HDD 108 FC	B.76
1651240000	HDC HDD 72 MC 73-144	B.78
1651260000	HDC HDD 72 FC 73-144	B.78
1651280000	HDC HDD 108 MC 109-216	B.80
1651300000	HDC HDD 108 FC 109-216	B.80
1651310000	HDC HVE 3+2 MS	B.84
1651320000	HDC HVE 3+2 FS	B.84
1651330000	HDC HVE 6+2 MS	B.86
1651340000	HDC HVE 6+2 FS	B.86
1651350000	HDC HVE 10+2 MS	B.88
1651360000	HDC HVE 10+2 FS	B.88
1651420000	HDC-C-HE-SM0.5AU	J.9
1651420000	HDC-C-HE-SM0.5AU	J.4
1651420000	HDC-C-HE-SM1.5AU	H.6
1651430000	HDC-C-HE-SM0.75-1.00AU	J.9
1651430000	HDC-C-HE-SM0.75-1.00AU	J.4
1651430000	HDC-C-HE-SM0.75-1.00AU	H.6
1651440000	HDC-C-HE-SM1.5AU	J.9
1651440000	HDC-C-HE-SM1.5AU	J.4
1651440000	HDC-C-HE-SM1.5AU	H.6
1651450000	HDC-C-HE-SM2.5AU	J.9
1651450000	HDC-C-HE-SM2.5AU	J.4
1651450000	HDC-C-HE-SM2.5AU	H.6
1651460000	HDC-C-HE-SM4.0AU	J.9
1651460000	HDC-C-HE-SM4.0AU	J.4
1651460000	HDC-C-HE-SM4.0AU	H.6
1651470000	HDC-C-HE-BM0.5AU	J.9
1651470000	HDC-C-HE-BM0.5AU	J.4
1651470000	HDC-C-HE-BM0.5AU	H.6
1651480000	HDC-C-HE-BM0.75-1.00AU	J.9
1651480000	HDC-C-HE-BM0.75-1.00AU	J.4
1651480000	HDC-C-HE-BM0.75-1.00AU	H.6
1651490000	HDC-C-HE-BM1.5AU	J.9
1651490000	HDC-C-HE-BM1.5AU	J.4
1651490000	HDC-C-HE-BM1.5AU	H.6
1651500000	HDC-C-HE-BM2.5AU	J.9
1651500000	HDC-C-HE-BM2.5AU	J.4
1651500000	HDC-C-HE-BM2.5AU	H.6
1651510000	HDC-C-HE-BM4.0AU	J.9
1651510000	HDC-C-HE-BM4.0AU	J.4
1651510000	HDC-C-HE-BM4.0AU	H.6
1651520000	HDC-C-HD-SM0.14-0.37AG	J.9
1651520000	HDC-C-HD-SM0.14-0.37AG	J.4

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1651530000	HDC-C-HD-SM0.5AG	J.9
1651530000	HDC-C-HD-SM0.5AG	

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1654320000	HDC 24D TOBU 1PG29G	E.16
1654370000	HDC 10B SBU 1PG16G	E.17
1654380000	HDC 10B SBU 2PG16G	E.17
1654450000	HDC 24D SBU 2PG21G	E.17
1654470000	HDC 24D SBU 1PG29G	E.17
1654580000	HDC 10B KBU 1PG16G	E.17
1654750000	HDC 10B TSB0 1PG16G	E.21
1654790000	HDC 24D TSB0 1PG21G	E.21
1654810000	HDC 24D TSB0 1PG16G	E.21
1654860000	HDC 10B TOBO 1PG16G	E.21
1654920000	HDC 24D TOBO 1PG29G	E.21
1655000000	HDC 10B SDBO 2PG16G	E.21
1655210000	HDC 10B TSLU 1PG16G	E.18
1655250000	HDC 24D TSLU 1PG21G	E.18
1655270000	HDC 24D TSLU 1PG29G	E.18
1655320000	HDC 10B TOLU 1PG16G	E.18
1655360000	HDC 24D TOLU 1PG21G	E.18
1655380000	HDC 24D TOLU 1PG29G	E.18
1655470000	HDC 10B SBU 2PG16G	E.19
1655680000	HDC 10B SBU 1PG16G	E.19
1655890000	HDC 10B KLU 1PG16G	E.19
1656390000	KV 11-M	L.11
1656400000	KV 13-M	L.11
1656410000	KV 16-M	L.11
1656420000	KV 21-M	L.11
1656430000	KV 29-M	L.11
1656480000	HDC 16B TSB0 1PG21G	I.28
1656490000	HDC 16B TSB0 1PG16G	I.19
1656490000	HDC 16B TSB0 1PG21G	I.17
1656490000	HDC 16B TSB0 1PG21G	I.26
1656500000	HDC 40D TSB0 1PG21G	E.26
1656540000	HDC 40D TSB0 1PG29G	E.26
1656590000	HDC 16B TOBU 1PG21G	I.19
1656590000	HDC 16B TOBU 1PG21G	I.17
1656590000	HDC 16B TOBU 1PG21G	E.26
1656630000	HDC 40D TOBU 1PG21G	E.26
1656650000	HDC 40D TOBU 1PG29G	E.26
1656720000	HDC 16B SBU 1PG21G	E.27
1656730000	HDC 16B SBU 2PG21G	E.27
1656810000	HDC 40D SBU 2PG21G	E.27
1656830000	HDC 40D SBU 1PG29G	E.27
1656840000	HDC 40D SBU 2PG29G	E.27
1657270000	HDC 16B KBU 1PG21G	E.27
1657310000	HDC 40D KBU 1PG21G	E.27
1657380000	HDC 16B TSB0 1PG21G	I.20
1657420000	HDC 40D TSB0 1PG21G	E.30
1657490000	HDC 16B TOBO 1PG21G	E.30
1657550000	HDC 40D TOBO 1PG29G	E.30
1657640000	HDC 16B SDBO 2PG21G	E.31
1657850000	HDC 16B TSLU 1PG21G	E.28
1657890000	HDC 40D TSLU 1PG21G	E.28
1657910000	HDC 40D TSLU 1PG29G	E.28
1657960000	HDC 16B TOLU 1PG21G	E.28
1658020000	HDC 40D TOLU 1PG29G	E.28
1658110000	HDC 16B SLU 1PG21G	E.29
1658120000	HDC 16B SLU 2PG21G	E.29
1658320000	HDC 16B SDBO 1PG21G	E.29
1658410000	HDC 40D SDBO 1PG29G	E.29

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1661230000	HDC 24B TSB0 1PG21G	I.23
1661230000	HDC 24B TSB0 1PG21G	I.21
1661230000	HDC 24B TSB0 1PG21G	E.36
1661240000	HDC 24B TSB0 1PG29G	E.36
1661300000	HDC 64D TSB0 1PG21G	E.36
1661320000	HDC 64D TSB0 1PG29G	E.36
1661370000	HDC 24B TOBU 1PG21G	I.23
1661370000	HDC 24B TOBU 1PG21G	I.21
1661370000	HDC 24B TOBU 1PG21G	E.36
1661380000	HDC 24B TOBU 1PG29G	E.36
1661440000	HDC 64D TOBU 1PG21G	E.36
1661460000	HDC 64D TOBU 1PG29G	E.36
1661510000	HDC 24B SBU 1PG21G	E.37
1661520000	HDC 24B SBU 2PG21G	E.37
1661590000	HDC 64D SBU 2PG21G	E.37
1661630000	HDC 64D SBU 2PG29G	E.37
1661720000	HDC 24B KBU 1PG21G	E.37
1661730000	HDC 24B KBU 1PG29G	E.37
1661810000	HDC 64D KBU 1PG29G	E.37
1661860000	HDC 24B TSB0 1PG21G	E.40
1661880000	HDC 24B TSB0 1PG29G	E.40
1661940000	HDC 64D TSB0 1PG21G	E.40
1661960000	HDC 64D TSB0 1PG29G	E.40
1662020000	HDC 24B TOBO 1PG29G	E.40
1662080000	HDC 64D TOBO 1PG21G	E.40
1662100000	HDC 64D TOBO 1PG29G	E.40
1662180000	HDC 24B SDBO 2PG21G	E.40
1662280000	HDC 64D SDBO 1PG29G	E.40
1662390000	HDC 24B TSLU 1PG21G	E.38
1662410000	HDC 24B TSLU 1PG29G	E.38
1662470000	HDC 64D TSLU 1PG21G	E.38
1662490000	HDC 64D TSLU 1PG29G	E.38
1662540000	HDC 24B TOLU 1PG21G	E.38
1662550000	HDC 24B TOLU 1PG29G	E.38
1662610000	HDC 64D TOLU 1PG21G	E.38
1662630000	HDC 64D TOLU 1PG29G	E.38

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1662720000	HDC 24B SLU 2PG21G	E.39
1663040000	HDC 64D SDBO 2PG29G	E.39
1663370000	HDC 64D TSZO 1PG21G	E.41
1663390000	HDC 64D TSZO 1PG29G	E.41
1663810000	HDC 10A TSLU 1PG16G	E.12
1663850000	HDC 15A TSLU 1PG16G	E.12
1663870000	HDC 15A TSLU 1PG21G	E.12
1663930000	HDC 10A TOLU 1PG16G	E.12
1663990000	HDC 15A TOLU 1PG21G	E.12
1664040000	HDC 10A ALU	E.13
1664040000	HDC 10A ALU	B.51
1664040000	HDC 10A ALU	B.11
1664060000	HDC 10A ADLU	E.13
1664060000	HDC 10A ADLU	B.51
1664060000	HDC 10A ADLU	B.11
1664170000	HDC 10A SLU 1PG16G	E.13
1664190000	HDC 10A SLU 2PG16G	E.13
1664210000	HDC 10A SLU 1PG21G	E.13
1664330000	ABD-2-GR	J.24
1664350000	ABD-3-GR	J.24
1664380000	ABD-4-GR	J.24
1664370000	ABD-5-GR	J.24
1664390000	ABD-6-GR	J.24
1664410000	HDC 10A SDBO 1PG16G	E.13
1664420000	HDC 10A SDBO 2PG16G	E.13
1664560000	HDC 10A KLU 1PG16G	E.13
1664630000	HDC 15A KLU 1PG21G	E.13
1664690000	HDC 16A TSLU 1PG16G	E.24
1664730000	HDC 25A TSLU 1PG16G	E.24
1664750000	HDC 25A TSLU 1PG21G	E.24
1664810000	HDC 16A TOLU 1PG16G	E.24
1664870000	HDC 25A TOLU 1PG21G	E.24
1664920000	HDC 16A ALU	E.25
1664920000	HDC 16A ALU	B.57
1664920000	HDC 16A ALU	B.13
1664940000	HDC 16A ADLU	E.25
1664940000	HDC 16A ADLU	B.57
1664940000	HDC 16A ADLU	B.13
1664960000	ABD-8-OR	J.24
1664970000	ABD-8-GR	J.24
1664980000	ADP-8/3-OR	J.24
1664990000	ADP-8/3-GR	J.24
1665000000	ADP-8/4-OR	J.24
1665010000	ADP-8/4-GR	J.24
1665020000	ADP-8/6-OR	J.24
1665030000	ADP-8/6-GR	J.24
1665070000	HDC 16A SLU 2PG16G	E.25
1665090000	HDC 16A SLU 1PG21G	E.25
1665200000	HDC 06B DODL 2BO	E.15
1665200000	HDC 06B DODL 2BO	D.25
1665200000	HDC 06B DODL 2BO	B.115
1665200000	HDC 06B DODL 2BO	B.71
1665200000	HDC 06B DODL 2BO	B.35
1665200000	HDC 06B DODL 2BO	B.53
1665200000	HDC 06B DODL 2BO	B.21
1665210000	HDC 06B DMDL 1LB	E.14
1665210000	HDC 06B DMDL 1LB	D.27
1665210000	HDC 06B DMDL 1LB	D.25
1665210000	HDC 06B DMDL 1LB	B.115
1665210000	HDC 06B DMDL 1LB	B.71
1665210000	HDC 06B DMDL 1LB	B.53
1665210000	HDC 06B DMDL 1LB	B.35
1665210000	HDC 06B DMDL 1LB	B.21
1665230000	HDC 10B DODO 4BO	E.17
1665230000	HDC 10B DODO 4BO	D.31
1665230000	HDC 10B DODO 4BO	D.29
1665230000	HDC 10B DODO 4BO	B.117
1665230000	HDC 10B DODO 4BO	B.85
1665230000	HDC 10B DODO 4BO	B.57
1665230000	HDC 10B DODO 4BO	B.35
1665230000	HDC 10B DODO 4BO	B.23
1665240000	HDC 10B DMDQ 2OB	E.16
1665240000	HDC 10B DMDQ 2OB	D.31
1665240000	HDC 10B DMDQ 2OB	D.29
1665240000	HDC 10B DMDQ 2OB	B.117
1665240000	HDC 10B DMDQ 2OB	B.85
1665240000	HDC 10B DMDQ 2OB	B.73
1665240000	HDC 10B DMDQ 2OB	B.55
1665240000	HDC 10B DMDQ 2OB	B.35
1665240000	HDC 10B DMDQ 2OB	B.23
1665250000	HDC 10B DMDQ 4BO	E.21
1665260000	HDC 16B DODO 4BO	E.27
1665260000	HDC 16B DODO 4BO	D.35
1665260000	HDC 16B DODO 4BO	D.33
1665260000	HDC 16B DODO 4BO	B.129
1665260000	HDC 16B DODO 4BO	B.125
1665260000	HDC 16B DODO 4BO	B.123
1665260000	HDC 16B DODO 4BO	B.121
1665260000	HDC 16B DODO 4BO	B.119
1665260000	HDC 16B DODO 4BO	B.93
1665260000	HDC 16B DODO 4BO	B.87
1665260000	HDC 16B DODO 4BO	B.75
1665260000	HDC 16B DODO 4BO	B.59
1665260000	HDC 16B DODO 4BO	B.39
1665260000	HDC 16B DODO 4BO	B.25
1665270000	HDC 16B DMDQ 2OB	E.26
1665270000	HDC 16B DMDQ 2OB	D.35
1665270000	HDC 16B DMDQ 2OB	D.33

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1665270000	HDC 16B DMDQ 2OB	B.129
1665270000	HDC 16B DMDQ 2OB	B.127
1665270000	HDC 16B DMDQ 2OB	B.125
1665270000	HDC 16B DMDQ 2OB	B.123
1665270000	HDC 16B DMDQ 2OB	B.121
1665270000	HDC 16B DMDQ 2OB	B.119
1665270000	HDC 16B DMDQ 2OB	B.93
1665270000	HDC 16B DMDQ 2OB	B.87
1665270000	HDC 16B DMDQ 2OB	B.75
1665270000	HDC 16B DMDQ 2OB	B.59
1665270000	HDC 16B DMDQ 2OB	B.39
1665270000	HDC 16B DMDQ 2OB	B.25
1665300000	HDC 16A SDBO 2PG16G	E.25
1665450000	HDC 16A KLU 1PG16G	E.25
1665620000	HDC 16B DMDQ 4BO	E.30
1665630000	HDC 24B DODO 4BO	E.37
1665630000	HDC 24B DODO 4BO	D.39
1665630000	HDC 24B DODO 4BO	D.37
1665630000	HDC 24B DODO 4BO	B.135
1665630000	HDC 24B DODO 4BO	B.133
1665630000	HDC 24B DODO 4BO	B.131
1665630000	HDC 24B DODO 4BO	B.89
1665630000	HDC 24B DODO 4BO	B.77
1665630000	HDC 24B DODO 4BO	B.63
1665630000	HDC 24B DODO 4BO	B.41
1665630000	HDC 24B DODO 4BO	B.27
1665630000	HDC 24B DODO 4BO	B.27
1665630000	HDC 24B DODO 4BO	E.40
1665670000	HDC 32A TSB0 1PG21G	E.32
1665690000	HDC 32A TSB0 1PG29G	E.32
1665740000	HDC 04A DODL 2BO	H.7
1665740000	HDC 04A DODL 2BO	E.7
1665740000	HDC 04A DODL 2BO	B.101
1665740000	HDC 04A DODL 2BO	B.99
1665740000	HDC 04A DODL 2BO	B.9
1665740000	HDC 04A DODL 2BO	B.7
1665750000	HDC 04A DMDL 2BO	H.7
1665750000	HDC 04A DMDL 2BO	E.7
1665750000	HDC 04A DMDL 2BO	B.101
1665750000	HDC 04A DMDL 2BO	B.99
1665750000	HDC 04A DMDL 2BO	B.9
1665750000	HDC 04A DMDL 2BO	B.7
1665760000	HDC 07A DODL 2BO	E.5
1665760000	HDC 07A DODL 2BO	B.49
1665760000	HDC 07A DODL 2BO	B.47
1665770000	HDC 07A DMDL 2BO	E.5
1665770000	HDC 07A DMDL 2BO	B.49
1665770000	HDC 07A DMDL 2BO	B.47
1665790000	HDC 32A TOBU 1PG21G	E.32
1665810000	HDC 32A TOBU 1PG29G	E.32
1665830000	HDC 32A ABU	E.33
1665860000	HDC 32A ABU	B.61
1665860000	HDC 32A ABU	B.15
1665880000	HDC 10A DMDL 2BO	E.13
1665880000	HDC 10A DMDL 2BO	B.51
1665880000	HDC 10A DMDL 2BO	B.11
1665890000	HDC 10A DODL 1LB	E.12
1665890000	HDC 10A DODL 1LB	B.51
1665890000	HDC 10A DODL 1LB	B.11
1665900000	HDC 16A DODL 1LB	E.24
1665900000	HDC 16A DODL 1LB	B.57
1665900000	HDC 16A DODL 1LB	B.13
1665910000	HDC 16A DMDL 2BO	E.25
1665910000	HDC 16A DMDL 2BO	B.57
1665910000	HDC 16A DMDL 2BO	B.13
1665920000	HDC 32A DODO 4BO	E.32
1665930000	HDC 32A DMDQ 2OB	E.32
1665940000	ADS/6-1/9	J.24
1665950000	ADS/6-2/9	J.24
1665980000	HDC 32A SBU 2PG21G	E.33
1666010000	HDC 32A SBU 1PG29G	E.33
1666200000	ADS/6-1/15	J.24
1666210000	ADS/6-2/15	J.24
1666220000	ADS/10-1/25	J.24
1666230000	ADS/10-2/25	J.24
1666270000	HDC 32A TSB0 1PG29G	E.34
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1706870000	VG EMV PG 11	L.14
1706880000	VG EMV PG 13,5	L.14
1706890000	VG EMV PG 16 K14	L.14
1706900000	VG EMV PG 21 K18	L.14
1706910000	VG EMV PG 29 K26	L.14
1706940000	VG EMV M20X1,5	L.14
1706950000	VG EMV M25X1,5	L.14
1707270000	SM 27/18 K MC NE WS	M.5
1707280000	SM 27/18 K SONDERDRUCK	M.5

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1712460000	HDC-KIT-HE 06.100	I.9
1712510000	HDC-KIT-HE 10.110	I.13
1712520000	HDC-KIT-HE 16.120	I.17
1712530000	HDC-KIT-HE 24.130	I.21
1712540000	HDC-KIT-HE 32.140	I.25
1712550000	HDC-KIT-HE 48.150	I.27
1712560000	HDC-KIT-HA 03.300	I.5
1712570000	HDC-KIT-HA 03.301	I.5
1712580000	HDC-KIT-HA 03.302	I.5
1712590000	HDC-KIT-HA 04.400	I.7
1712600000	HDC-KIT-HA 04.401	I.7
1712610000	HDC-KIT-HA 04.402	I.7
1712630000	HDC-KIT-HA 03.404	I.5
1712650000	HDC-KIT-HA 04.406	I.7
1712660000	HDC-KIT-HE 06.101	I.9
1712670000	HDC-KIT-HE 10.111	I.13
1712680000	HDC-KIT-HE 16.121	I.17
1712690000	HDC-KIT-HE 24.131	I.21
1713690000	SM 27/8 K SONDERDRUCK	M.5
1713720000	SM 27/12,5 K SI NEUTRAL	M.5
1713760000	SM 27/18 K NEUTRAL SI	M.5
1713880000	VG EMV PG 16 K18	L.14
1713890000	VG EMV PG K28	L.14
1713900000	VG EMV PG 29 K29	L.14
1718770000	VG 48-K68	L.5
1718790000	VG 48-MS54	L.7
1718900000	VG 48-MS68	L.7
1718910000	VG 48-MS54-ZE	L.9
1718810000	VG 9-MS54-ZE	L.9
1718820000	VG 11-MS54-ZE	L.9
1718830000	VG 13,5-MS54-ZE	L.9
1718840000	VG 16-MS54-ZE	L.9
1718850000	VG 21-MS54-ZE	L.9
1718860000	VG 29-MS54-ZE	L.9
1718870000	VG 36-MS54-ZE	L.9
1718880000	VG 42-MS54-ZE	L.9
1718890000	VG 48-MS54-ZE	L.9
1719250000	VP 7-K54	L.21
1719260000	VP 48-K54	L.21
1719270000	VP 48-MS65	L.22
1719440000	GWDR PG7-PO	L.19
1719450000	GWDR PG9-PO	L.19
1719460000	GWDR PG11-PO	L.19
1719470000	GWDR PG13,5-PO	L.19
1719480000	GWDR PG16-PO	L.19
1719490000	GWDR PG21-PO	L.19
1719500000	GWDR PG29-PO	L.19
1719510000	GWDR PG36-PO	L.19
1719520000	GWDR PG42-PO	L.19
1719530000	GWDR PG48-PO	L.19
1719540000	GWDR PG7-NP	L.20
1719550000	GWDR PG9-NP	L.20
1719560000	GWDR PG11-NP	L.20
1719570000	GWDR PG13,5-NP	L.20
1719580000	GWDR PG16-NP	L.20
1719590000	GWDR PG21-NP	L.20
1719600000	GWDR PG29-NP	L.20
1719610000	GWDR PG36-NP	L.20
1719620000	GWDR PG42-NP	L.20
1719630000	GWDR PG48-NP	L.20

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1720480000	VG 9-K68 SKS	L.6
1720490000	VG 11-K68 SKS	L.6
1720500000	VG 13,5-K68 SKS	L.6
1720510000	VG 16-K68 SKS	L.6
1720520000	VG 21-K68 SKS	L.6
1720570000	ETO SM 27/8	M.5
1720580000	ETO SM 27/12,5	M.5
1720590000	ETO SM 27/18 TRANSPAR.	M.5
1724000000	HDC-KIT-HSB 06.500	I.28
1724140001	LM MT300 15X4,63 SI	M.7
1724141044	LM MT300 15X4,63 WS	M.7
1724141687	LM MT300 15X4,63 GE	M.7
1724150001	LM MT300 17X9 SI	M.7
1724151044	LM MT300 17X9 WS	M.7
1724151687	LM MT300 17X9 GE	M.7
1724160001	LM MT300 30X20 SI	M.7
1724161044	LM MT300 30X20 WS	M.7
1724161687	LM MT300 30X20 GE	M.7
1724170001	LM MT300 105X148 SI	M.7
1724171044	LM MT300 105X148 WS	M.7
1724171687	LM MT300 105X148 GE	M.7
1724180001	LM MT300 210X148 SI	M.7
1724181044	LM MT300 210X148 WS	M.7
1724181687	LM MT300 210X148 GE	M.7

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1730000000		
1730120000	HDC-CM-4S2F AG	D.6
1730130000	HDC-CM-4B2F AG	D.6
1736230000	GWDR M16-NP	L.20
1736240000	GWDR M20-NP	L.20
1736250000	GWDR M25-NP	L.20
1736260000	GWDR M32-NP	L.20
1736270000	GWDR M40-NP	L.20
1736280000	GWDR M50-NP	L.20
1736290000	GWDR M63-NP	L.20
1737220000	VG M20-EXE MS	L.17
1737230000	VG M25-EXE MS	L.17
1737240000	VG M32-EXE MS	L.17
1737640000	ADAP EX 3/4NPT-M20	L.18
1737800000	ADAP EX 3/4NPT-M25	L.18
1737950000	ADAP EX 3/4NPT-M32	L.18
1738400000	ADAP EX 3/4NPT-1/2NPT	L.18
1738560000	ADAP EX 3/4NPT-3/4NPT	L.18

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1745760000	HDC HE 6 FT	B.20
1745770000	HDC HE 10 FT	B.22
1745780000	HDC HE 16 FT	B.28
1745780000	HDC HE 16 FT	B.24
1745790000	HDC HE 24 FT	B.30
1745790000	HDC HE 24 FT	B.26
1745800000	HDC HE 16 FT 17-32	B.28
1745810000	HDC HE 24 FT 25-48	B.30
1745820000	HDC HE 6 MT	B.20
1745830000	HDC HE 10 MT	B.22
1745840000	HDC HE 16 MT	B.28
1745840000	HDC HE 16 MT	B.24
1745850000	HDC HE 24 MT	B.30
1745850000	HDC HE 24 MT	B.26
1745860000	HDC HE 16 MT 17-32	B.28
1745870000	HDC HE 24 MT 25-48	B.30
1746060000	MODUFLEX C-CR	D.45
1746070000	MODUFLEX C-MW	D.45
1746170000	HDC 10A TOLU 2PG11G	E.12
1749320001	LM MT300 18X6,5 SI	M.7
1749321044	LM MT300 18X6,5 WS	M.7
1749321687	LM MT300 18X6,5 GE	M.7

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1751750001	THM MT30X 25/12 SI/M	M.8
1751751044	THM MT30X 25/12 WS/M	M.8
1751751687	THM MT30X 25/12 GE/M	M.8
1751760001	THM MT30X 26/10 SI/M	M.8
1751761044	THM MT30X 26/10 WS/M	M.8
1751761687	THM MT30X 26/10 GE/M	M.8
1751770001	THM MT30X 32/9 SI/M	M.8
1751771044	THM MT30X 32/9 WS/M	M.8
1751800001	THM MT30X 38/19 SI/M	M.8
1751801044	THM MT30X 38/19 WS/M	M.8
1751801687	THM MT30X 38/19 GE/M	M.8
1751810001	THM MT30X 45/23 SI/M	M.8
1751811044	THM MT30X 45/23 WS/M	M.8
1751811687	THM MT30X 45/23 GE/M	M.8
1751820001	THM MT30X 101/48 SI/M	M.8
1751821044	THM MT30X 101/48 WS/M	M.8
1751821687	THM MT30X 101/48 GE/M	M.8
1751830001	THM MT30X 65/35 SI/M	M.8
1751831044	THM MT30X 65/35 WS/M	M.8
1751831687	THM MT30X 65/35 GE/M	M.8
1752970000	MODUFLEX C-MHIZE	D.46
1753230001	THM MT30X 15/6 SI/M	M.8
1753231044	THM MT30X 15/6 WS/M	M.8
1753231687	THM MT30X 15/6 GE/M	M.8
1753240001	THM MT30X 20/8 SI/M	M.8
1753241044	THM MT30X 20/8 WS/M	M.8
1753241687	THM MT30X 20/8 GE/M	M.8
1753250001	THM MT30X 18/9 SI/M	M.8
1753251044	THM MT30X 18/9 WS/M	M.8
1753251687	THM MT30X 18/9 GE/M	M.8
1753260001	THM MT30X 30/20 SI/M	M.8
1753261044	THM MT30X 30/20 WS/M	M.8
1753261687	THM MT30X 30/20 GE/M	M.8
1753270001	THM MT30X 18/6 SI/M	M.8
1753271044	THM MT30X 18/6 WS/M	M.8
1753271687	THM MT30X 18/6 GE/M	M.8
1753500000	ESG 9/17 K NEUTRAL/GE	M.4
1758360000	HDC CM 3 FC	D.4
1758370000	HDC CM 3 MC	D.4
1758380000	HDC CM 5 MC	D.7
1758390000	HDC CM 5 FC	D.7
1758400000	HDC CM 10 FC	D.8
1758410000	HDC CM 10 MC	D.8
1758440000	HDC-CR6-2S GR	D.24
1758450000	HDC-CR6-2B GR	D.24
1758460000	HDC-CR10-3S GR	D.28
1758470000	HDC-CR10-3B GR	D.28
1758480000	HDC-CR16-5S GR	D.40
1758480000	HDC-CR16-5S GR	D.32
1758490000	HDC-CR16-5B GR	D.40
1758490000	HDC-CR16-5B GR	D.32
1758500000	HDC-CR24-7S GR	D.42
1758500000	HDC-CR24-7S GR	D.36

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1758510000	HDC-CR24-7B GR	D.42
1758510000	HDC-CR24-7B GR	D.36
1758520000	HDC-CR16-5S-2 GR	D.40
1758530000	HDC-CR16-5B-2 GR	D.40
1758540000	HDC-CR24-7S-2 GR	D.42
1758550000	HDC-CR24-7B-2 GR	D.42

1760000000

1760461044	LM MT300 40X6 WS	M.7
1762440000	ADAPTER ALU STI-S	M.13
1762960001	THM MT30X 101/74 sj	M.8
1765570000	MODUFLEX C-KITO.M.MW-1F	D.46
1765580000	MODUFLEX C-KITO.M.MW-2F	D.46
1765590000	MODUFLEX C-KITO.M.MW-3F	D.46
1765600000	MODUFLEX C-KITO.M.MW-4F	D.46
1765610000	MODUFLEX C-KITO.M.MW-5F	D.46
1766120000	PTSC KB 3.0X6 WN1412	D.46
1766120000	PTSC KB 3.0X6 WN1412	D.45
1766130000	ABST.BOLZ.M3X27+KLSC-KI	D.46
1766130000	ABST.BOLZ.M3X27+KLSC-KI	D.45
1768540000	Plotterpen 0,25	M.13
1768550000	Plotterpen 0,35	M.13
1768560000	Plotterpen 0,5	M.13
1768570000	Plotterpen 0,18	M.13

1770000000

1770090000	THM MT30X 26,5/17,5 SI/M	M.8
1770410000	VG EMV PG36 K32-27	L.14
1771930000	SM 27/8 K SI NEUTRAL	M.5
1772120000	Tinte 2000 25ml	M.13
1772130000	Reiniger 2000 25ml	M.13
1772210000	VG M16 - MS 68	L.13
1772220000	VG M20 - MS 68	L.13
1772220000	VG M20 - MS 68	I.10
1772220000	VG M20 - MS 68	I.8
1772220000	VG M20 - MS 68	I.6
1772220000	VG M20 - MS 68	L.4
1772230000	VG M25 - MS 68	I.13
1772230000	VG M25 - MS 68	I.18
1772230000	VG M25 - MS 68	I.16
1772230000	VG M25 - MS 68	I.14
1772230000	VG M25 - MS 68	I.12
1772240000	VG M32 - MS 68	L.13
1772240000	VG M32 - MS 68	I.24
1772240000	VG M32 - MS 68	I.22
1772240000	VG M32 - MS 68	I.20
1772250000	VG M40 - MS 68	L.13
1772250000	VG M40 - MS 68	I.26
1772270000	VG M63 - MS 68	L.13
1772290000	VG M16 - K 68	L.5
1772300000	VG M20-1/K68	L.6
1772300000	VG M20-1/K68	L.5
1772300000	VG M20-1/K68	L.4
1772310000	VG M25 - K 68	L.5
1772320000	VG M32 - K 68	L.5
1772330000	VG M40 - K 68	L.5
1772340000	VG M50 - K 68	L.5
1772350000	VG M63-1/K68	L.5
1773630000	HDC-C-HD-S-LWL1.0POF	J.10
1773640000	HDC-C-HD-B-LWL1.0POF	J.10
1776710000	VG M16-K68 SKS	L.6
1776720000	VG M20-K68 SKS 10,0-14,0	L.6
1776730000	VG M25-K68 SKS	L.6
1776900000	VP M25 K54	L.21
1776910000	VP M20 K54	L.21
1776920000	VP M16 K54	L.21
1776930000	VP M12 K54	L.21
1776940000	VP M32 K54	L.21
1776950000	VP M40 K54	L.21
1776960000	VP M50 K54	L.21
1776970000	VP M63 K54	L.21
1777270000	VP M12-MS65	L.22
1777300000	VP M16-MS65	L.22
1777400000	VP M20-MS65	L.22
1777500000	VP M25-MS65	L.22
1777600000	VP M32-MS65	L.22
1777700000	VP M40-MS65	L.22
1777800000	VP M50-MS65	L.22
1777900000	VP M63-MS65	L.22
1777920000	GWDR M12-PO	L.19
1777930000	GWDR M16-PO	L.19
1777940000	GWDR M20-PO	L.19
1777950000	GWDR M25-PO	L.19
1777960000	GWDR M32-PO	L.19
1777970000	GWDR M40-PO	L.19
1777980000	GWDR M50-PO	L.19
1777990000	GWDR M63-PO	L.19
1778150000	VG NPT 3/4" Eex-e MS	G.4
1778150000	VG NPT 3/4" Eex-e MS	G.4

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1787000000	HDC 40D TSBV 1M32G	B.125	1787190000	HDC 40D KBU 1M32G	B.119	1787510000	HDC 16D SLU 2M32G	B.115	1787760000	HDC 24B TSBV 1M25G	B.133
1787000000	HDC 40D TSBV 1M32G	B.123	1787190000	HDC 40D KBU 1M32G	B.93	1787520000	HDC 16D SLU 2M25G	E.15	1787760000	HDC 24B TSBV 1M25G	B.131
1787000000	HDC 40D TSBV 1M32G	B.121	1787190000	HDC 40D KBU 1M32G	B.87	1787520000	HDC 16D SLU 2M25G	B.115	1787760000	HDC 24B TSBV 1M25G	B.89
1787000000	HDC 40D TSBV 1M32G	B.119	1787190000	HDC 40D KBU 1M32G	B.75	1787540000	HDC 16D SDLU 2M25G	E.15	1787760000	HDC 24B TSBV 1M25G	B.77
1787000000	HDC 40D TSBV 1M32G	B.93	1787190000	HDC 40D KBU 1M32G	B.59	1787540000	HDC 16D SDLU 2M25G	B.115	1787760000	HDC 24B TSBV 1M25G	B.63
1787000000	HDC 40D TSBV 1M32G	B.87	1787190000	HDC 40D KBU 1M32G	B.39	1787550000	HDC 10B TSBV 1M25G	L.14	1787760000	HDC 24B TSBV 1M25G	B.41
1787000000	HDC 40D TSBV 1M32G	B.75	1787190000	HDC 40D KBU 1M32G	B.25	1787550000	HDC 10B TSBV 1M25G	L.12	1787760000	HDC 24B TSBV 1M25G	B.27
1787000000	HDC 40D TSBV 1M32G	B.59	1787200000	HDC 40D KBU 1M25G	E.27	1787550000	HDC 10B TSBV 1M25G	E.16	1787770000	HDC 24B TSBV 1M32G	E.40
1787000000	HDC 40D TSBV 1M32G	B.39	1787200000	HDC 40D KBU 1M25G	D.35	1787550000	HDC 10B TSBV 1M25G	D.31	1787780000	HDC 24B TSBV 1M25G	E.40
1787000000	HDC 40D TSBV 1M32G	B.25	1787200000	HDC 40D KBU 1M25G	D.33	1787550000	HDC 10B TSBV 1M25G	D.29	1787790000	HDC 24B TSLU 1M32G	E.38
1787010000	HDC 40D TSBV 1M25G	E.26	1787200000	HDC 40D KBU 1M25G	B.129	1787550000	HDC 10B TSBV 1M25G	B.119	1787800000	HDC 24B TSLU 1M25G	E.38
1787010000	HDC 40D TSBV 1M25G	D.35	1787200000	HDC 40D KBU 1M25G	B.127	1787550000	HDC 10B TSBV 1M25G	B.85	1787810000	HDC 24B TOBU 1M32G	L.22
1787010000	HDC 40D TSBV 1M25G	D.33	1787200000	HDC 40D KBU 1M25G	B.125	1787550000	HDC 10B TSBV 1M25G	B.73	1787810000	HDC 24B TOBU 1M32G	L.20
1787010000	HDC 40D TSBV 1M25G	B.129	1787200000	HDC 40D KBU 1M25G	B.123	1787550000	HDC 10B TSBV 1M25G	B.55	1787810000	HDC 24B TOBU 1M32G	E.36
1787010000	HDC 40D TSBV 1M25G	B.127	1787200000	HDC 40D KBU 1M25G	B.121	1787550000	HDC 10B TSBV 1M25G	B.37	1787810000	HDC 24B TOBU 1M32G	D.39
1787010000	HDC 40D TSBV 1M25G	B.125	1787200000	HDC 40D KBU 1M25G	B.119	1787550000	HDC 10B TSBV 1M25G	B.23	1787810000	HDC 24B TOBU 1M32G	D.37
1787010000	HDC 40D TSBV 1M25G	B.123	1787200000	HDC 40D KBU 1M25G	B.93	1787560000	HDC 10B TSBV 1M20G	E.16	1787810000	HDC 24B TOBU 1M32G	B.135
1787010000	HDC 40D TSBV 1M25G	B.121	1787200000	HDC 40D KBU 1M25G	B.87	1787560000	HDC 10B TSBV 1M20G	D.31	1787810000	HDC 24B TOBU 1M32G	B.133
1787010000	HDC 40D TSBV 1M25G	B.119	1787200000	HDC 40D KBU 1M25G	B.75	1787560000	HDC 10B TSBV 1M20G	D.29	1787810000	HDC 24B TOBU 1M32G	B.131
1787010000	HDC 40D TSBV 1M25G	B.93	1787200000	HDC 40D KBU 1M25G	B.59	1787560000	HDC 10B TSBV 1M20G	B.117	1787810000	HDC 24B TOBU 1M32G	B.89
1787010000	HDC 40D TSBV 1M25G	B.87	1787200000	HDC 40D KBU 1M25G	B.39	1787560000	HDC 10B TSBV 1M20G	B.85	1787810000	HDC 24B TOBU 1M32G	B.77
1787010000	HDC 40D TSBV 1M25G	B.75	1787200000	HDC 40D KBU 1M25G	B.25	1787560000	HDC 10B TSBV 1M20G	B.73	1787810000	HDC 24B TOBU 1M32G	B.63
1787010000	HDC 40D TSBV 1M25G	B.59	1787200000	HDC 40D KLU 1M25G	E.29	1787560000	HDC 10B TSBV 1M20G	B.55	1787810000	HDC 24B TOBU 1M32G	B.41
1787010000	HDC 40D TSBV 1M25G	B.39	1787230000	HDC 24D TSBV 1M32G	E.16	1787560000	HDC 10B TSBV 1M20G	B.37	1787810000	HDC 24B TOBU 1M32G	B.27
1787010000	HDC 40D TSBV 1M25G	B.25	1787230000	HDC 24D TSBV 1M32G	D.31	1787560000	HDC 10B TSBV 1M20G	B.23	1787820000	HDC 24B TOBU 1M25G	E.36
1787020000	HDC 40D TSBV 1M32G	E.30	1787230000	HDC 24D TSBV 1M32G	D.29	1787570000	HDC 10B TSBV 1M25G	E.21	1787820000	HDC 24B TOBU 1M25G	D.39
1787030000	HDC 40D TSBV 1M25G	E.30	1787230000	HDC 24D TSBV 1M32G	B.117	1787580000	HDC 10B TSLU 1M25G	E.18	1787820000	HDC 24B TOBU 1M25G	D.37
1787040000	HDC 40D TSLU 1M32G	E.28	1787230000	HDC 24D TSBV 1M32G	B.85	1787590000	HDC 10B TSLU 1M25G	L.14	1787820000	HDC 24B TOBU 1M25G	B.135
1787050000	HDC 40D TSLU 1M25G	E.28	1787230000	HDC 24D TSBV 1M32G	B.73	1787590000	HDC 10B TOBU 1M25G	L.12	1787820000	HDC 24B TOBU 1M25G	B.133
1787060000	HDC 40D TOBU 1M32G	E.26	1787230000	HDC 24D TSBV 1M32G	B.55	1787590000	HDC 10B TOBU 1M25G	E.16	1787820000	HDC 24B TOBU 1M25G	B.131
1787060000	HDC 40D TOBU 1M32G	D.35	1787230000	HDC 24D TSBV 1M32G	B.37	1787590000	HDC 10B TOBU 1M25G	D.31	1787820000	HDC 24B TOBU 1M25G	B.89
1787060000	HDC 40D TOBU 1M32G	D.33	1787230000	HDC 24D TSBV 1M32G	B.23	1787590000	HDC 10B TOBU 1M25G	D.29	1787820000	HDC 24B TOBU 1M25G	B.77
1787060000	HDC 40D TOBU 1M32G	B.129	1787240000	HDC 24D TSBV 1M25G	E.16	1787590000	HDC 10B TOBU 1M25G	B.117	1787820000	HDC 24B TOBU 1M25G	B.63
1787060000	HDC 40D TOBU 1M32G	B.127	1787240000	HDC 24D TSBV 1M25G	D.31	1787590000	HDC 10B TOBU 1M25G	B.85	1787820000	HDC 24B TOBU 1M25G	B.41
1787060000	HDC 40D TOBU 1M32G	B.125	1787240000	HDC 24D TSBV 1M25G	D.29	1787590000	HDC 10B TOBU 1M25G	B.73	1787820000	HDC 24B TOBU 1M25G	B.27
1787060000	HDC 40D TOBU 1M32G	B.123	1787240000	HDC 24D TSBV 1M25G	B.73	1787590000	HDC 10B TOBU 1M25G	B.55	1787830000	HDC 24B TOBU 1M32G	E.40
1787060000	HDC 40D TOBU 1M32G	B.121	1787240000	HDC 24D TSBV 1M25G	B.85	1787590000	HDC 10B TOBU 1M25G	B.37	1787830000	HDC 24B TOLLU 1M32G	E.38
1787060000	HDC 40D TOBU 1M32G	B.119	1787240000	HDC 24D TSBV 1M25G	B.73	1787590000	HDC 10B TOBU 1M25G	B.23	1787830000	HDC 24B TOLLU 1M25G	E.38
1787060000	HDC 40D TOBU 1M32G	B.93	1787240000	HDC 24D TSBV 1M25G	B.55	1787600000	HDC 10B TOBU 1M20G	E.16	1787860000	HDC 24B TOLLU 1M25G	E.38
1787060000	HDC 40D TOBU 1M32G	B.87	1787240000	HDC 24D TSBV 1M25G	B.37	1787600000	HDC 10B TOBU 1M20G	D.31	1787870000	HDC 24B SBU 2M25G	E.37
1787060000	HDC 40D TOBU 1M32G	B.75	1787240000	HDC 24D TSBV 1M25G	B.23	1787600000	HDC 10B TOBU 1M20G	D.29	1787870000	HDC 24B SBU 2M25G	D.39
1787060000	HDC 40D TOBU 1M32G	B.59	1787250000	HDC 24D TSBV 1M32G	E.21	1787600000	HDC 10B TOBU 1M20G	B.117	1787870000	HDC 24B SBU 2M25G	B.135
1787060000	HDC 40D TOBU 1M32G	B.39	1787260000	HDC 24D TSBV 1M25G	E.18	1787600000	HDC 10B TOBU 1M20G	B.85	1787870000	HDC 24B SBU 2M25G	B.133
1787060000	HDC 40D TOBU 1M32G	B.25	1787270000	HDC 24D TSLU 1M32G	E.21	1787600000	HDC 10B TOBU 1M20G	B.73	1787870000	HDC 24B SBU 2M25G	B.131
1787070000	HDC 40D TOBU 1M25G	E.26	1787280000	HDC 24D TSLU 1M25G	E.18	1787600000	HDC 10B TOBU 1M20G	B.55	1787870000	HDC 24B SBU 2M25G	B.89
1787070000	HDC 40D TOBU 1M25G	D.35	1787290000	HDC 24D TOBU 1M32G	E.16	1787600000	HDC 10B TOBU 1M20G	B.37	1787870000	HDC 24B SBU 2M25G	B.77
1787070000	HDC 40D TOBU 1M25G	D.33	1787290000	HDC 24D TOBU 1M32G	D.31	1787600000	HDC 10B TOBU 1M20G	B.23	1787870000	HDC 24B SBU 2M25G	B.63
1787070000	HDC 40D TOBU 1M25G	B.129	1787290000	HDC 24D TOBU 1M32G	D.29	1787610000	HDC 10B TOBU 1M25G	E.21	1787870000	HDC 24B SBU 2M25G	B.41
1787070000	HDC 40D TOBU 1M25G	B.127	1787290000	HDC 24D TOBU 1M32G	B.117	1787620000	HDC 10B TOLLU 1M25G	E.18	1787870000	HDC 24B SBU 2M25G	B.27
1787070000	HDC 40D TOBU 1M25G	B.125	1787290000	HDC 24D TOBU 1M32G	B.85	1787630000	HDC 10B SBU 2M25G	E.17	1787880000	HDC 24B SBU 2M25G	E.39
1787070000	HDC 40D TOBU 1M25G	B.123	1787290000	HDC 24D TOBU 1M32G	B.73	1787630000	HDC 10B SBU 2M25G	D.31	1787900000	HDC 24B SDLU 2M25G	E.39
1787070000	HDC 40D TOBU 1M25G	B.121	1787290000	HDC 24D TOBU 1M32G	B.55	1787630000	HDC 10B SBU 2M25G	D.29	1787920000	HDC 24B KBU 1M25G	E.37
1787070000	HDC 40D TOBU 1M25G	B.119	1787290000	HDC 24D TOBU 1M32G	B.37	1787630000	HDC 10B SBU 2M25G	B.117	1787920000	HDC 24B KBU 1M25G	D.39
1787070000	HDC 40D TOBU 1M25G	B.93	1787290000	HDC 24D TOBU 1M32G	B.23	1787630000	HDC 10B SBU 2M25G	B.85	1787920000	HDC 24B KBU 1M25G	D.37
1787070000	HDC 40D TOBU 1M25G	B.87	1787300000	HDC 24D TOBU 1M25G	E.16	1787630000	HDC 10B SBU 2M25G	B.73	1787920000	HDC 24B KBU 1M25G	B.135
1787070000	HDC 40D TOBU 1M25G	B.75	1787300000	HDC 24D TOBU 1M25G	D.31	1787630000	HDC 10B SBU 2M25G	B.55	1787920000	HDC 24B KBU 1M25G	B.133
1787070000	HDC 40D TOBU 1M25G	B.59	1787300000	HDC 24D TOBU 1M25G	D.29	1787630000	HDC 10B SBU 2M25G	B.37	1787920000	HDC 24B KBU 1M25G	B.131
1787070000	HDC 40D TOBU 1M25G	B.39	1787300000	HDC 24D TOBU 1M25G	B.117	1787630000	HDC 10B SBU 2M25G	B.23	1787920000	HDC 24B KBU 1M25G	B.89
1787070000	HDC 40D TOBU 1M25G	B.25	1787300000	HDC 24D TOBU 1M25G	B.85	1787640000	HDC 10B SBU 2M20G	E.17	1787920000	HDC 24B KBU 1M25G	B.77
1787100000	HDC 40D TOLLU 1M32G	E.28	1787300000	HDC 24D TOBU 1M25G	B.73	1787640000	HDC 10B SBU 2M20G	D.31	1787920000	HDC 24B KBU 1M25G	B.63
1787110000	HDC 40D SBU 2M32G	E.27	1787300000	HDC 24D TOBU 1M25G	B.55	1787640000	HDC 10B SBU 2M20G	D.29	1787920000	HDC 24B KBU 1M25G	B.41
1787110000	HDC 40D SBU 2M32G	D.35	1787300000	HDC 24D TOBU 1M25G	B.37	1787640000	HDC 10B SBU 2M20G	B.117	1787920000	HDC 24B KBU 1M25G	B.27
1787110000	HDC 40D SBU 2M32G	D.33	1787300000	HDC 24D TOBU 1M25G	B.23	1787640000	HDC 10B SBU 2M20G	B.85	1787950000	HDC 32A TSBV 1M32G	E.32
1787110000	HDC 40D SBU 2M32G	B.129	1787330000	HDC 24D TOLLU 1M32G	E.18	1787640000	HDC 10B SBU 2M20G	B.73	1787950000	HDC 32A TSBV 1M32G	B.61
1787110000	HDC 40D SBU 2M32G	B.127	1787340000	HDC 24D TOLLU 1M25G	E.18	1787640000	HDC 10B SBU 2M20G	B.55	1787950000	HDC 32A TSBV 1M32G	B.15
1787110000	HDC 40D SBU 2M32G	B.125	1787350000	HDC 24D SBU 2M25G	E.17	1787640000	HDC 10B SBU 2M20G	B.37	1787960000	HDC 32A TSBV 1M25G	E.32
1787110000	HDC 40D SBU 2M32G	B.123	1787360000	HDC 24D SBU 2M32G	E.17	1787640000	HDC 10B SBU 2M20G	B.23	1787960000	HDC 32A TSBV 1M25G	B.61
1787110000	HDC 40D SBU 2M32G	B.121	1787370000	HDC 24D SLU 2M32G	E.19	1787650000	HDC 10B SLU 2M25G	E.19	1787960000	HDC 32A TSBV 1M25G	B.15
1787110000	HDC 40D SBU 2M32G	B.119	1787400000	HDC 24D SDBO 2M25G	E.21	1787660000	HDC 10B SLU 2M20G	E.19	1787970000	HDC 32A TSBV 1M32G	E.34
1787110000	HDC 40D SBU 2M32G	B.93	1787410000	HDC 24D SDLU 2M32G	E.19	1787670000	HDC 10B SDBO 2M25G	E.21	1787980000	HDC 32A TSBV 1M25G	E.34
1787110000	HDC 40D SBU 2M32G	B.87	1787420000	HDC 24D SDLU 2M25G	E.19	1787680000	HDC 10B SDBO 2M20G	E.21	1787990000	HDC 32A TOBU 1M32G	E.32
1787110000	HDC 40D S										

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178810000	HDC 06B TSLU 1M20G	B.21	178827000	HDC 16B SDLU 2M25G	E.29	178861000	HDC 10A TOLU 1M25G	B.11	180000000		
178811000	HDC 06B TOLU 1M25G	E.14	178829000	HDC 16B KLU 1M25G	E.29	178862000	HDC 10A TOLU 1M20G	E.12	180236000	HDC-KIT-HE 48.150 M	L.26
178811000	HDC 06B TOLU 1M25G	D.27	178830000	HDC 48B TSLU 1M50G	D.43	178862000	HDC 10A TOLU 1M20G	B.51	180237000	HDC-KIT-HE 32.140 M	L.24
178811000	HDC 06B TOLU 1M25G	D.25	178830000	HDC 48B TSLU 1M50G	E.49	178862000	HDC 10A TOLU 1M20G	B.11	180238000	HDC-KIT-HE 24.130 M	L.20
178811000	HDC 06B TOLU 1M25G	B.71	178830000	HDC 48B TSLU 1M50G	B.81	178863000	HDC 10A SLU 2M25G	E.13	180239000	HDC-KIT-HE 16.121 M	L.16
178811000	HDC 06B TOLU 1M25G	B.53	178830000	HDC 48B TSLU 1M50G	B.67	178863000	HDC 10A SLU 2M25G	B.51	180240000	HDC-KIT-HE 16.120 M	L.16
178811000	HDC 06B TOLU 1M25G	B.35	178830000	HDC 48B TSLU 1M50G	B.31	178863000	HDC 10A SLU 2M20G	E.13	180241000	HDC-KIT-HE 10.111 M	L.12
178811000	HDC 06B TOLU 1M25G	B.21	178831000	HDC 48B TSLU 1M40G	1.26	178864000	HDC 10A SLU 2M20G	B.51	180242000	HDC-KIT-HE 10.110 M	L.12
178812000	HDC 06B TOLU 1M20G	L.10	178831000	HDC 48B TSLU 1M40G	E.49	178864000	HDC 10A SLU 2M20G	B.11	180243000	HDC-KIT-HE 04.401 M	L.6
178812000	HDC 06B TOLU 1M20G	L.8	178831000	HDC 48B TSLU 1M40G	D.43	178864000	HDC 10A SLU 2M20G	B.11	180244000	HDC-KIT-HE 04.400 M	L.6
178812000	HDC 06B TOLU 1M20G	E.14	178831000	HDC 48B TSLU 1M40G	B.81	178865000	HDC 10A SDLU 2M25G	E.13	180245000	HDC-KIT-HE 03.302 M	L.4
178812000	HDC 06B TOLU 1M20G	D.27	178831000	HDC 48B TSLU 1M40G	B.67	178865000	HDC 10A SDLU 2M25G	B.51	180246000	HDC-KIT-HE 03.301 M	L.4
178812000	HDC 06B TOLU 1M20G	D.25	178831000	HDC 48B TSLU 1M40G	B.31	178866000	HDC 10A SDLU 2M20G	E.13	180247000	HDC-KIT-HE 03.300 M	L.4
178812000	HDC 06B TOLU 1M20G	B.71	178832000	HDC 48B TSLU 1M32G	E.49	178866000	HDC 10A SDLU 2M20G	B.51	180248000	HDC-KIT-HE 24.131 M	L.20
178812000	HDC 06B TOLU 1M20G	B.53	178832000	HDC 48B TSLU 1M32G	D.43	178866000	HDC 10A SDLU 2M20G	B.11	180270000	HDC KIT HA 04.402 M	L.6
178812000	HDC 06B TOLU 1M20G	B.35	178832000	HDC 48B TSLU 1M32G	B.81	178866000	HDC 10A SDLU 2M20G	B.11	180272000	HDC KIT HA 04.406 M	L.6
178812000	HDC 06B TOLU 1M20G	B.21	178832000	HDC 48B TSLU 1M32G	B.67	178867000	HDC 10A KLU 1M25G	E.13	180273000	HDC KIT HE 06.100 M	L.8
178813000	HDC 06B SLU 2M25G	D.27	178832000	HDC 48B TSLU 1M32G	E.49	178867000	HDC 10A KLU 1M25G	B.51	180274000	HDC KIT HE 06.101 M	L.8
178813000	HDC 06B SLU 2M25G	D.25	178833000	HDC 48B TSLU 1M32G	D.43	178867000	HDC 10A KLU 1M25G	B.11	180461000	HDC 64D TSLU 1M40G	E.38
178813000	HDC 06B SLU 2M25G	B.71	178833000	HDC 48B TSLU 1M32G	D.43	178868000	HDC 25A TSLU 1M20G	E.24	180463000	HDC 16B TOLLU 1M32G	E.28
178813000	HDC 06B SLU 2M25G	B.53	178833000	HDC 48B TSLU 1M32G	B.81	178868000	HDC 25A TSLU 1M20G	B.13	180464000	HDC 16B TOLLU 1M32G	E.28
178813000	HDC 06B SLU 2M25G	B.35	178833000	HDC 48B TSLU 1M32G	B.67	178868000	HDC 25A TSLU 1M20G	B.13	180465000	HDC 16B TOLLU 1M32G	E.28
178813000	HDC 06B SLU 2M25G	B.21	178833000	HDC 48B TSLU 1M32G	E.49	178869000	HDC 25A TSLU 1M25G	E.24	180466000	HDC 40D SLU 2M32G	E.29
178814000	HDC 06B SLU 2M20G	E.15	178833000	HDC 48B TSLU 1M32G	B.81	178869000	HDC 25A TSLU 1M25G	B.57	180584000	ETO SM 27/27	M.5
178814000	HDC 06B SLU 2M20G	E.15	178833000	HDC 48B TSLU 1M32G	D.43	178869000	HDC 25A TSLU 1M25G	B.13	180603000	HDC CM BUS 2BS T PBDP	D.15
178814000	HDC 06B SLU 2M20G	D.25	178833000	HDC 48B TSLU 1M32G	B.81	178870000	HDC 25A TOLLU 1M25G	B.57	180606000	HDC CM BUS 2SS PBDP	D.15
178814000	HDC 06B SLU 2M20G	B.71	178833000	HDC 48B TSLU 1M32G	E.49	178870000	HDC 25A TOLLU 1M25G	B.13	180663000	IS 2 KG	K.24
178814000	HDC 06B SLU 2M20G	B.53	178833000	HDC 48B TSLU 1M32G	B.67	178870000	HDC 25A TOLLU 1M25G	B.13	180663000	IS 2 KG	B.111
178814000	HDC 06B SLU 2M20G	B.35	178833000	HDC 48B TSLU 1M32G	E.49	178870000	HDC 25A TOLLU 1M20G	E.24	180665000	IS 3 KG	K.24
178814000	HDC 06B SLU 2M20G	B.21	178833000	HDC 48B TSLU 1M32G	D.43	178870000	HDC 25A TOLLU 1M20G	B.57	180665000	IS 3 KG	B.111
178816000	HDC 06B SDLU 2M25G	E.15	178833000	HDC 48B TSLU 1M32G	B.81	178870000	HDC 25A TOLLU 1M20G	B.13	180666000	IS 4 KG	K.24
178816000	HDC 06B SDLU 2M25G	D.27	178833000	HDC 48B TSLU 1M32G	E.49	178870000	HDC 25A TOLLU 1M20G	B.13	180666000	IS 4 KG	B.111
178816000	HDC 06B SDLU 2M25G	D.25	178833000	HDC 48B TSLU 1M32G	B.81	178870000	HDC 25A TOLLU 1M20G	B.13	180962000	HDC 16B TSBUS 1M40G	E.26
178816000	HDC 06B SDLU 2M25G	B.71	178833000	HDC 48B TSLU 1M32G	E.49	178870000	HDC 25A TOLLU 1M20G	B.13	1809630000	HDC 64D TSBUS 1M40G	E.36
178816000	HDC 06B SDLU 2M25G	B.53	178833000	HDC 48B TSLU 1M32G	D.43	178870000	HDC 25A TOLLU 1M20G	B.13			
178816000	HDC 06B SDLU 2M25G	B.35	178833000	HDC 48B TSLU 1M32G	E.49	178870000	HDC 25A TOLLU 1M20G	B.13			
178816000	HDC 06B SDLU 2M25G	B.21	178833000	HDC 48B TSLU 1M32G	B.81	178870000	HDC 25A TOLLU 1M20G	B.13			
178817000	HDC 06B SDLU 2M20G	E.15	178833000	HDC 48B TSLU 1M32G	D.43	178870000	HDC 25A TOLLU 1M20G	B.13			
178817000	HDC 06B SDLU 2M20G	D.27	178833000	HDC 48B TSLU 1M32G	E.49	178870000	HDC 25A TOLLU 1M20G	B.13			
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178817000	HDC 06B SDLU 2M20G	B.71	178833000	HDC 48B TSLU 1M32G	E.49	178870000	HDC 25A TOLLU 1M20G	B.13			
178817000	HDC 06B SDLU 2M20G	B.53	178833000	HDC 48B TSLU 1M32G	D.43	178870000	HDC 25A TOLLU 1M20G	B.13			
178817000	HDC 06B SDLU 2M20G	B.35	178833000	HDC 48B TSLU 1M32G	E.49	178870000	HDC 25A TOLLU 1M20G	B.13			
178817000	HDC 06B SDLU 2M20G	B.21	178833000	HDC 48B TSLU 1M32G	B.81	178870000	HDC 25A TOLLU 1M20G	B.13			
178818000	HDC 16B TSBUS 1M25G	L.18	178833000	HDC 48B TSLU 1M32G	D.43	178870000	HDC 25A TOLLU 1M20G	B.13			
178818000	HDC 16B TSBUS 1M25G	L.16	178833000	HDC 48B TSLU 1M32G	E.49	178870000	HDC 25A TOLLU 1M20G	B.13			
178818000	HDC 16B TSBUS 1M25G	E.26	178833000	HDC 48B TSLU 1M32G	B.81	178870000	HDC 25A TOLLU 1M20G	B.13			
178818000	HDC 16B TSBUS 1M25G	D.35	178833000	HDC 48B TSLU 1M32G	E.49	178870000	HDC 25A TOLLU 1M20G	B.13			
178818000	HDC 16B TSBUS 1M25G	D.33	178833000	HDC 48B TSLU 1M32G	B.81	178870000	HDC 25A TOLLU 1M20G	B.13			
178818000	HDC 16B TSBUS 1M25G	B.129	178833000	HDC 48B TSLU 1M32G	E.49	178870000	HDC 25A TOLLU 1M20G	B.13			
178818000	HDC 16B TSBUS 1M25G	B.127	178833000	HDC 48B TSLU 1M32G	D.43	178870000	HDC 25A TOLLU 1M20G	B.13			
178818000	HDC 16B TSBUS 1M25G	B.125	178833000	HDC 48B TSLU 1M32G	E.49	178870000	HDC 25A TOLLU 1M20G	B.13			
178818000	HDC 16B TSBUS 1M25G	B.123	178833000	HDC 48B TSLU 1M32G	B.81	178870000	HDC 25A TOLLU 1M20G	B.13			
178818000	HDC 16B TSBUS 1M25G	B.121	178833000	HDC 48B TSLU 1M32G	E.49	178870000	HDC 25A TOLLU 1M20G	B.13			
178818000	HDC 16B TSBUS 1M25G	B.119	178833000	HDC 48B TSLU 1M32G	D.43	178870000	HDC 25A TOLLU 1M20G	B.13			
178818000	HDC 16B TSBUS 1M25G	B.93	178833000	HDC 48B TSLU 1M32G	E.49	178870000	HDC 25A TOLLU 1M20G	B.13			
178818000	HDC 16B TSBUS 1M25G	B.87	178833000	HDC 48B TSLU 1M32G	B.81	178870000	HDC 25A TOLLU 1M20G	B.13			
178818000	HDC 16B TSBUS 1M25G	B.75	178833000	HDC 48B TSLU 1M32G	D.43	178870000	HDC 25A TOLLU 1M20G	B.13			
178818000	HDC 16B TSBUS 1M25G	B.59	178833000	HDC 48B TSLU 1M32G	E.49	178870000	HDC 25A TOLLU 1M20G	B.13			
178818000	HDC 16B TSBUS 1M25G	B.39	178833000	HDC 48B TSLU 1M32G	B.81	178870000	HDC 25A TOLLU 1M20G	B.13			
178818000	HDC 16B TSBUS 1M25G	B.25	178833000	HDC 48B TSLU 1M32G	D.43	178870000	HDC 25A TOLLU 1M20G	B.13			
178819000	HDC 16B TSBUS 1M25G	E.30	178833000	HDC 48B TSLU 1M32G	E.49	178870000	HDC 25A TOLLU 1M20G	B.13			
178820000	HDC 16B TSLU 1M25G	E.28	178833000	HDC 48B TSLU 1M32G	B.81	178870000	HDC 25A TOLLU 1M20G	B.13			
178821000	HDC 16B TOLU 1M25G	L.18	178833000	HDC 48B TSLU 1M32G	D.43	178870000	HDC 25A TOLLU 1M20G	B.13			
178821000	HDC 16B TOLU 1M25G	L.16	178833000	HDC 48B TSLU 1M32G	E.49	178870000	HDC 25A TOLLU 1M20G	B.13			
178821000	HDC 16B TOLU 1M25G	E.26	178833000	HDC 48B TSLU 1M32G	B.81	178870000	HDC 25A TOLLU 1M20G	B.13			
178821000	HDC 16B TOLU 1M25G	D.35	178833000	HDC 48B TSLU 1M32G	E.49	178870000	HDC 25A TOLLU 1M20G	B.13			
178821000	HDC 16B TOLU 1M25G	D.33	178833000	HDC 48B TSLU 1M32G	B.81	178870000	HDC 25A TOLLU 1M20G	B.13			
178821000	HDC 16B TOLU 1M25G	B.129	178833000	HDC 48B TSLU 1M32G	D.43	178870000	HDC 25A TOLLU 1M20G	B.13			
178821000	HDC 16B TOLU 1M25G	B.127	178833000	HDC 48B TSLU 1M32G	E.49	178870000	HDC 25A TOLLU 1M20G	B.13			
178821000	HDC 16B TOLU 1M25G	B.125	178833000	HDC 48B TSLU 1M32G	B.81	178870000	HDC 25A TOLLU 1M20G	B.13			
178821000	HDC 16B TOLU 1M25G	B.123	178833000	HDC 48B TSLU 1M32G	E.49	178870000	HDC 25A TOLLU 1M20G	B.13			
178821000	HDC 16B TOLU 1M25G	B.121	178833000	HDC 48B TSLU 1M32G	D.43	178870000	HDC 25A TOLLU 1M20G	B.13			
178821000	HDC 16B TOLU 1M25G	B.119	178833000	HDC 48B TSLU 1M32G	E.49	178870000	HDC 25A TOLLU 1M20G	B.13			
178821000	HDC 16B TOLU 1M25G	B.93	178833000	HDC 48B TSLU 1M32G	B.81	178870000	HDC 25A TOLLU 1M20G	B.13			
178821000	HDC 16B TOLU 1M25G	B.87	178833000	HDC 48B TSLU 1M32G	D.43	178870000	HDC 25A TOLLU 1M20G	B.13			
178821000	HDC 16B TOLU 1M25G	B.75	178833000	HDC 48B TSLU 1M32G	E.49	178870000	HDC 25A TOLLU 1M20G	B.13			
178821000	HDC 16B TOLU 1M25G	B.59	178833000	HDC 48B TSLU 1M32G	B.81	178870000	HDC 25A TOLLU 1M20G	B.13			
178821000	HDC 16B TOLU 1M25G	B.39	178833000	HDC 48B TSLU 1M32G	D.43	178870000	HDC 25A TOLLU 1M20G	B.13			
178821000	HDC 16B TOLU 1M25G	B.25	178833000	HDC 48B TSLU 1M32G	E.49	178870000	HDC 25A TOLLU 1M20G	B.13			
178822000	HDC 16B TOLU 1M25G	E.30	178833000	HDC 48B TSLU 1M32G	B.81	178870000	HDC 25A TOLLU 1M20G	B.13			
178823000	HDC 16B TOLU 1										

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1870000000

1873520000	HDC HE 6 FP	L.11
1873520000	HDC HE 6 FP	L.10
1873520000	HDC HE 6 FP	B.20
1873530000	HDC HE 6 MP	L.11
1873530000	HDC HE 6 MP	L.10
1873530000	HDC HE 6 MP	B.20
1873540000	HDC HE 10 FP	L.15
1873540000	HDC HE 10 FP	L.14
1873540000	HDC HE 10 FP	B.22
1873550000	HDC HE 10 MP	L.15
1873550000	HDC HE 10 MP	L.14
1873550000	HDC HE 10 MP	B.22
1873560000	HDC HE 16 FP	L.19
1873560000	HDC HE 16 FP	L.18
1873560000	HDC HE 16 FP	B.28
1873560000	HDC HE 16 FP	B.24
1873570000	HDC HE 16 MP	L.19
1873570000	HDC HE 16 MP	L.18
1873570000	HDC HE 16 MP	B.28
1873570000	HDC HE 16 MP	B.24
1873580000	HDC HE 24 FP	L.23
1873580000	HDC HE 24 FP	L.22
1873580000	HDC HE 24 FP	B.30
1873580000	HDC HE 24 FP	B.26
1873590000	HDC HE 24 MP	L.23
1873590000	HDC HE 24 MP	L.22
1873590000	HDC HE 24 MP	B.30
1873590000	HDC HE 24 MP	B.26
1873810000	LM MT300 27x18 SI	M.7
1873860000	HDC HA 10 FC	B.10
1873870000	HDC HA 10 MC	B.10
1873880000	HDC HA 16 FC	B.16
1873880000	HDC HA 16 FC	B.14
1873890000	HDC HA 16 FC	B.12
1873890000	HDC HA 16 MC	B.16
1873890000	HDC HA 16 MC	B.14
1873890000	HDC HA 16 MC	B.12
1874860000	LM MT300 PA 20x8 GE	M.7
1875540000	HDC HA 16 FC 33 - 48	B.16
1875620000	HDC HA 16 MC 17 - 32	B.16
1875620000	HDC HA 16 MC 17 - 32	B.14
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 MP 25-48	B.30
1875890000	HDC HE 24 MP 25-48	B.30
1876040000	HDC HA 16 FC 17 - 32	B.16
1876040000	HDC HA 16 FC 17 - 32	B.14
1876580000	CC 15/17 K MC NEUTR. SI	M.6
1876590000	CC 15/17 K MC NEUTR. WS	M.6
1876600000	CC 15/17 K MC SONDERD.	M.6
1876640000	CC 15/27 K MC NEUTR. WS	M.6
1876750000	CC 15/27 K MC SONDERD.	M.6
1876780000	CC 15/27 K MC NEUTR. SI	M.6
1877220000	CC 15/49 K MC NEUTR. WS	M.6
1877230000	CC 15/49 K MC SONDERD.	M.6
1877270000	CC 15/49 K MC NEUTR. SI	M.6
1877310000	CC 15/60 K MC NEUTR. WS	M.6
1877320000	CC 15/60 K MC SONDERD.	M.6
1877360000	CC 15/60 K MC NEUTR. SI	M.6
1877570000	SM 22/22 K MC NEUTR. WS	M.5
1877580000	SM 22/22 K MC SONDERD.	M.5
1877590000	SM 22/22 K MC NEUTR. SI	M.5

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1880080000	ESG 6/17 K SONDERDRUCK	M.4
1880090000	ESG 6/15 K SONDERDRUCK	M.4
1880100000	ESG 6/15 K MC NEUTR. WS	M.4
1880110000	ESG 6/17 K MC NEUTR. GE	M.4
1880120000	ESG 6/17 K MC NEUTR. WS	M.4
1880130000	ESG 6/15 K MC NEUTR. GE	M.4
1880720000	ETO SM 22/22 TRANSPAR.	M.5
1880810000	ETO CC 15/27 TRANSPAR.	M.6
1880830000	ETO CC 15/49 TRANSPAR.	M.6
1880840000	ETO CC 15/60 TRANSPAR.	M.6
1880850000	ETO CC 15/17 TRANSPAR.	M.6
1882890000	LM MT300 15x9 GE	M.7
1882910000	LM MT300 12x6 GE	M.7

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1891770000	THM MT30X 25,9/7,1 WS	M.8
1894710000	HDC-CM-2SPN4.0	D.23
1894720000	HDC-CM-1BPN4.0	D.23
1894730000	HDC-CM-1SPN2.5	D.23
1894740000	HDC-CM-1SPN4.0	D.23
1894750000	HDC-CM-2BPN2.5	D.23
1894760000	HDC-CM-2BPN4.0	D.23
1894770000	HDC-CM-2SPN2.5	D.23
1894780000	HDC-CM-1BPN2.5	D.23
1896780000	HDC HA 10 FT	B.10
1896790000	HDC HA 10 MT	B.10
1896800000	HDC HA 16 FT	B.16
1896800000	HDC HA 16 FT	B.14
1896800000	HDC HA 16 FT	B.12
1896810000	HDC HA 16 FT 17-32	B.16
1896810000	HDC HA 16 FT 17-32	B.14

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1896820000	HDC HA 16 FT 33-48	B.16
1896830000	HDC HA 16 MT	B.16
1896830000	HDC HA 16 MT	B.14
1896830000	HDC HA 16 MT	B.12
1896840000	HDC HA 16 MT 17-32	B.16
1896840000	HDC HA 16 MT 17-32	B.14
1896850000	HDC HA 16 MT 33-48	B.16
1899800000	HDC 04A SLU 1PG11G BL	E.7
1899890000	HDC 04A AWLU BL	E.7
1899920000	HDC 04A KOLU 1PG11S BL	E.7
1899980000	HDC 16B SBU 1M25G	E.27

1900000000

1900080000	HDC 16B SDBO 1M25G	E.31
1900170000	HDC 16B SLU 1M25G	E.29
1900280000	HDC 04A TOLU 1PG11S BL	E.6
1900310000	HDC 04A TWLU 1PG11S BL	E.6
1900320000	HDC 04A ELU 1M20G	H.7
1900320000	HDC 04A ELU 1M20G	E.7
1900320000	HDC 04A ELU 1M20G	B.101
1900320000	HDC 04A ELU 1M20G	B.99
1900320000	HDC 04A ELU 1M20G	B.9
1900320000	HDC 04A ELU 1M20G	B.7
1900330000	HDC 04A ELU 1PG13S	E.7
1900350000	HDC 04A ELU 1PG13S bl	E.7
1900360000	HDC 06B SDLU 1M20G	E.15
1900380000	HDC 06B SBU 1M25G	E.15
1900460000	HDC 06B SLU 1M20G	E.15
1900480000	HDC 06B SLU 1M25G	E.15
1900820000	HDC 16D SDLU 1M25G	E.15
1900880000	HDC 16D SLU 1M25G	E.15
1900900000	HDC 16D SLU 1M32G	E.15
1900990000	HDC 07A ELU 1PG13G	E.5
1900990000	HDC 07A ELU 1PG13G	B.49
1900990000	HDC 07A ELU 1PG13G	B.47
1901010000	HDC 10A SDLU 1M20G	E.13
1901040000	HDC 10A SDLU 1M25G	E.13
1901100000	HDC 10A SLU 1M20G	E.13
1901150000	HDC 24B SBU 1M25G	E.37
1901160000	HDC 10A SLU 1M25G	E.13
1901360000	HDC 10B SBU 1M20G	E.17
1901370000	HDC 10B SBU 1M25G	E.17
1901480000	HDC 24B SDLU 1M25G	E.39
1901490000	HDC 10B SDBO 1M20G	E.21
1901510000	HDC 10B SDBO 1M25G	E.21
1901560000	HDC 24B SLU 1M25G	E.39
1901570000	HDC 10B SDLU 1M20G	E.19
1901620000	HDC 10B SLU 1M20G	E.19
1901640000	HDC 10B SLU 1M25G	E.19
1901700000	HDC 10B AZO	E.22
1902480000	HDC 24B TSBU 1M40G	E.36
1902600000	HDC 32B SBU 1M32G	E.45
1902610000	HDC 32B SBU 1PG36G	E.45
1902640000	HDC 32B SBU 2PG36G	E.45
1902850000	HDC 32B SDLU 1M32G	E.47
1902670000	HDC 32B SLU 1M32G	E.47
1902730000	HDC 32B KBU 1M40G	E.45
1902740000	HDC 32B KBU 1PG29G	E.45
1902750000	HDC 32B KBU 1PG36G	E.45
1902970000	HDC 40D SBU 1M25G	E.27
1902980000	HDC 24B TOBU 1M40G	E.36
1902990000	HDC 40D SBU 1M32G	E.27
1903070000	HDC 40D SDLU 1M25G	E.29
1903080000	HDC 40D SDLU 1M32G	E.29
1903110000	HDC 40D SLU 1M32G	E.29
1903210000	HDC 24D SBU 1M25G	E.17
1903220000	HDC 24D SBU 1M32G	E.17
1903370000	HDC 24D SDBO 1M25G	E.21
1903410000	HDC 24D SDLU 1M25G	E.19
1903510000	HDC 24D SDLU 1M32G	E.19
1903560000	HDC 24D SLU 1M32G	E.19
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1903870000	HDC 32A SBU 1M25G	E.33
1903900000	HDC 32A SDBO 1M25G	E.34
1903910000	HDC 32A SDBO 1M32G	E.34
1904150000	HDC 48B SDLU 1M32G	E.49
1904190000	HDC 48B SLU 1M32G	E.49
1904340000	HDC 64D SBU 1M25G	E.37
1904350000	HDC 64D SBU 1M32G	E.37
1904400000	HDC 64D SDBO 1M32G	E.40
1904430000	HDC 64D SDLU 1M25G	E.39
1904440000	HDC 64D SDLU 1M32G	E.39
1904480000	HDC 64D SLU 1M25G	E.39
1904490000	HDC 64D SLU 1M32G	E.39
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1905500000	M-PRINT PRO ADVANCED	M.15
1906120000	SM 27/18 K NEUTRAL ROT	M.5
1909500000	VG M16 - MS 1/EMV	L.15
1909510000	VG M20 - MS 1/EMV	L.15
1909520000	VG M25 - MS 1/EMV	L.15
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1909540000	VG M40 - MS 1/EMV	L.15
1909550000	VG M50 - MS 1/EMV	L.15
1909560000	VG M63 - MS 1/EMV	L.15
1909860000	VG M16-1/K68	L.5
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1909920000	VG M25-1/MS68	L.13
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1909940000	VG M40-1/MS68	L.13
1909950000	VG M50-1/MS68	L.13

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1912190000	HDC SHIELD CLAMP 4.5	J.20
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1912240000	HDC SHIELD CLAMP 9.0	J.20
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1912440000	HDC HQ 5 MC	B.98
1912460000	HDC HQ 5 FC	B.98
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1915320000	LM MT300 202x12 GE	M.7
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9030060000	AM 12	D.22
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9204190000	AM 16	K.10
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9918370000	DMS MANUELL 0,5-1,7	K.20
9918380000	DMS MANUELL 2,0-8,0	K.20
9918390000	DMSI MANUELL 0,5-1,7	K.21
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9918410000	WK SI 0,4x2,5	K.21
9918420000	WK SI 0,5x3,0	K.21
9918430000	WK SI 0,6x3,5	K.21
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9918520000	WK S 0,4x2,5	K.20
9918530000	WK S 0,5x3,0	K.20
9918540000	WK S 0,6x3,5	K.20
9918550000	WK S 0,8x4,0	K.20
9918560000	WK S 1,0x5,5	K.20
9918570000	WK K PH0	K.20
9918580000	WK K PH1	K.20
9918590000	WK K PH2	K.20
9918600000	WK K PZ0	K.20
9918610000	WK K PZ1	K.20
9918620000	WK K PZ2	K.20

Addresses worldwide

- AE United Arab Emirates**
Weidmüller Middle East FZE
P.O. Box 8591
SAIF-Zone
Sharjah – U. A. E.
Phone +971 6 5572723
Fax +971 6 5572724
wme.info@weidmueller.com
- AR Argentina**
CPI SA
Bauness 2660
1431 Buenos Aires
Phone +54 11 45238008
Fax +54 11 45220546
info@cpi.com.ar
www.cpi.com.ar
- AT Austria**
Weidmüller GmbH Austria
Straße 2, Industriezentrum Nö
Süd Straße 2b M59
2355 Wiener Neudorf
Phone +43 2236 6708-0
Fax +43 2236 6708-199
office.at@weidmueller.com
- AU Australia**
Weidmüller Pty. Ltd.
P.O. Box 6944
Huntingwood Drive 43
Huntingwood,
NSW, 2148
Phone +61 2 9671-9999
Fax +61 2 9671-9911
info@weidmuller.com.au
www.weidmuller.com.au
- AZ Azerbaijan**
West Industries Ltd.
Caspian Plaza, 5-th Floor
44 J. Jabbarly Str., Baku
Phone +99412 499 15 15
Fax +99412 499 14 93
sales@west-i.com
- BA Bosnia and Herzegovina**
BH ES ELEKTROSISTEM d.o.o.
Bul. Vojvode S.
Stepanovica kod br. 272
78000 BiH - Banja Luka
Phone +387 51 420-340
Fax +387 51 420-341
elsist@inecco.net
www.elektrosistem.ba
- BE Belgium**
Weidmüller Benelux B.V.
Mechelsesteenweg 519 bus 6 en 7
1930 Nossegem
Phone +32 2 752 4070
Fax +32 2 751 3606
info@weidmueller.be
www.weidmueller.be
- BG Bulgaria**
Weid-Bul EOOD
1756 Sofia
13, bul. "Kliment Ohridski"
Phone +359 2 9632560
Fax +359 2 9631098
sofia@weidbul.com
www.weidbul.com
- BH Bahrain**
Khayber Trading Company
P.O. Box 1976 Manama,
Phone +973 720747
Fax +973 720331
khayber@batelco.com.bh
- BR Brazil**
Weidmüller Conexel do Brasil
Conexões Elétricas Ltda.
Rua Garcia Lorca, 176
09695-900, Sao Paulo SP
Phone +55 11 43669600
Fax +55 11 43621677
vendas@conexel.com.br
www.conexel.com.br
- BY Belarus**
TECHNIKON Ltd.
Oktyabrskaya Str. 16/5
Apt. 704, Minsk 220801
Phone +375 17 2275830
Fax +375 17 2275830
technikon@belsonet.net
- CA Canada**
W Interconnections CANADA Ltd.
10 Spy Court, Markham,
Ontario L3 R5 H6
Phone +1 905 475-1507
Fax +1 905 475-2798
info1@weidmuller.ca
www.weidmuller.ca
- CH Switzerland**
Weidmüller Schweiz AG
Rundbuckstraße 2
8212 Neuhausen am Rheinfall
Phone +41 52 6740707
Fax +41 52 6740708
info@weidmueller.ch
www.weidmueller.ch
- CL Chile**
Felipe Bahamondes S.A./ATS AGRO
Maria Luisa Santander 0475
Casilla 3425
Santiago
Phone +56 2 341-1271
Fax +56 2 341-1275
felipe@atsintech.com
- CN China**
Weidmüller Interface International
Trading (Shanghai) Co., Ltd.
25F, BM Intercontinental Business
Center,
100 Yutong Road, Shanghai 200070
P.R. China
Phone +86 21 22195008
Fax +86 21 22195009
www.cnweidmuller.com
- CO Colombia**
Automatización Avanzada S. A.
Carrera 97 No.24c, 23 B4
4 Bogotá D. C.
Phone +57 1 5478510
Fax +57 1 4223044
comercial@
automatizacionavanzada.com
www.automatizacionavanzada.com
- CR Costa Rica**
ELVATRON S.A.
la Uruca 400 Norte
Banco Costa Rica
San José Costa Rica
Phone +506 2 961060
Fax +506 5 200609
dirk.haase@elvatron.com
www.elvatron.com
- CZ Czech Republic**
Weidmüller s. r. o.
Lomnického 5/1705
14000 Praha 4
Phone +420 2 44001400
Fax +420 2 44001499
office@weidmueller.cz
www.weidmueller.cz
- DE Germany**
Weidmüller GmbH & Co. KG
P.O. Box 3054
32720 Detmold
Ohmstraße 9
32758 Detmold
Phone +49 5231 1428-0
Fax +49 5231 1428-116
weidmueller@weidmueller.de
www.weidmueller.de
- DK Denmark**
Wexoe A/S
Lejrvej 31
3500 Vaerloese
Phone +45 45465800
Fax +45 45465801
wexoe@wexoe.dk
www.wexoe.dk
- EC Ecuador**
Elsystec S. A. Electricidad
Sistemas y Tecnología
Vasco de Contreras N35-25
y Mañosa, Quito
Phone +593 2 2456510
Fax +593 2 2456755
Elsystec@uio.satnet.net
- EE Estonia**
Soots Interface OÜ
Pärnu mnt 142
11317 Tallinn
Phone +372 5296177
Fax +372 6096933
info@sootsinterface.ee
www.sootsinterface.ee
- EG Egypt**
Standard Electric (OMEGA)
87, Mohamed Farid Street
Heliopolis, Cairo
Phone +20 26422977
Fax +20 26422955
stdelec@rite.com
- ES Spain**
Weidmüller S. A.
Narcis Monturiol 11-13
Pol. Ind. Sudoeste
08960 Sant Just Desvern
Barcelona
Phone +34 93 4803386
Fax +34 93 3718055
weidmuller@weidmuller.es
www.weidmuller.es
- FI Finland**
JUHA-ELEKTRO OY
P. O. Box 57, 641 Helsinki
Kylvöpolku 6, 680 Helsinki
Phone +358 10 6328 100
Fax +358 10 8328 109
info@juha-elektro.fi
www.juha-elektro.fi
- FR France**
Weidmüller E. U. R. L.
12, Chaussée Jules César
B.P. 263 Osny
95523 Cergy Pontoise Cedex
Phone +33 1 34245500
Fax +33 1 34245501
mail@weidmuller.fr
- GB Great Britain**
Weidmüller Ltd
Klippon House
Centurion Court Office
Meridian East, Meridian Business Park
Leicester, LE19 1TP
Phone +44 1162 823470
Fax +44 1162 893582
marketing@weidmuller.co.uk
- GR Greece**
Electrorama S.A.
1 An. Martail Str.
41335 Larissa
Phone +30 2410 552533188
Fax +30 2410 283463189
valizos@electrorama.com.gr
- Greece**
GA Contact Solutions
11, Ippokratous Str.
14452 Metamorfoisi Attika
Phone +30 210 2823233
Fax +30 210 2823233
gasaless@gmail.com
- HK Hong Kong**
Weidmüller (Hong Kong) Limited
1401 Hutchison HSE
10 Harcourt RD
Hong Kong
- HR Croatia**
Elektro Partner d.o.o.
Slavonska Avenija 24/6
10000 Zagreb
Phone +385 1 6184793
Fax +385 1 6184795
elektropartner@zg.t-com.hr
- HU Hungary**
Weidmüller Kft
Gubacsi út 6
1097 Budapest
Phone +36 1 3827700
Fax +36 1 3827701
info@weidmueller.hu
- ID Indonesia**
PT. Nego Electrindo
Ruko Mega Grosir Cempaka Mas,
Blok I, No 20 – 22
Jl. Let.Jend. Suprato –
Jakarta 10640
Phone +62 21 42882255
Fax +62 21 42882266
sales@negoelectrindo.co.id
- IE Ireland**
Please contact Weidmüller Ltd. in
Great Britain
- IL Israel**
A.U.Shay Ltd.
P.O. Box 10049
Embar Street 23/25
49222 Petah-Tikva
Phone +972 3 9233601
Fax +972 3 9234601
- ISRAEL**
ATEKA Ltd.
23 Hayetzira
St. Kiryat Aryeh
49130 Petah-Tikva
Phone +972 3 9392344
Fax +972 3 9243273
marketing@ateka.co.il
www.ateka.co.il
- IN India**
Weidmüller Electronics India Pvt. Ltd
Plot # 32, 3rd Floor, North Court
Lane North Avenue, Opp Jogger's Park
Kalyani Nagar, Maharashtra
411006 Pune
Phone +91 9049800960
Nitish.Rajan@weidmueller.de
- IR Iran**
Tamin Ehtiajat Fani Tehran (TAF Co.)
72, Iranshahr Ave.(Unit # 5)
15816 Tehran
Phone +98 21 8831-7851
Fax +98 21 8882-0268
tafco@safineh.net
- IS Iceland**
Samey Automation Center
Lyngas 13, 210 Garoabaer,
Phone +354 510 5200
Fax +354 510 5201
samey@samey.is
- IT Italy**
Weidmüller S.R.L.
Via Albert Einstein 4
20092 Cinisello Balsamo
Milano
Phone +39 02 660681
Fax +39 02 6124945
weidmuller@weidmuller.it
www.weidmuller.it
- JO Jordan**
HORIZONS
P.O.Box: 330607
Amman Jordan 11133
Phone +962 6 4882114
Fax +962 6 4882115
horizons@go.com.jo
- JP Japan**
Nihon Weidmüller Co. Ltd.
Sphere Tower Tennoz,
2-2-8 Higashi-Shinagawa,
Shinagawa-Ku, Tokyo 140-0002
Phone +81 3 6711-5300
Fax +81 3 6711-5333
www.weidmuller.co.jp
- KR Korea**
Weidmüller Korea Co., Ltd.
6floor, Sukyong building, 242-54
Nonhyun-dong, Kangnam-Gu
Seoul, Korea
Zip: 135-830
Phone +82 2 5160003
Fax +82 2 5160090
info@weidmuller.co.kr
- KW Kuwait**
KANA CONTROLS General
Trading & Cont. CO. W.L.L.
Al Rai Industrial Area,
Plot 28-30, St. 31
P.O.Box: 25593
Safat, 13016
Phone +966-474 1373/4
Fax +966-474 1537
info@kanacontrols.com

Group companies **DE**Agency abroad **DE**Without own Agency **DE**

- LB Lebanon**
Progress Engineering & Trading Enterprises
Al Nahr Street
Beirut
Phone +961 1 444664
Fax +961 1 561880
progress@inco.com.lb
- LT Lithuania**
ELEKTROS IRANGA
Tinklu g.29a, 5319 Panevezys
Phone +370 45582828
Fax +370 45582727
info@eliranga.lt
- LU Luxembourg**
Please contact Weidmüller
Benelux B.V. in the Netherlands
- LV Latvia**
SIA "ABI4"
Daugavgrivas str. 31b
1007 Riga
Phone +371 67470999
Fax +371 67465637
abi_4@tvnet.lv
- MD Moldova**
BERHORD A&D srl
44, srt. Sarmizegetusa 37/3
Off 414, b-dul Decebal, 3,
Christinau, MD 2001
Phone +373 22 507137
Fax +373 22 507134
atuleanu@berhord.com
- ME Montenegro**
Please contact
ES-YU Elektrosistem in Serbia
- MK Macedonia**
ELEKTRO – SMK doool
UL. III Makedonska brigada b.b.
1000 Skopje
Phone +389 22 460 295
Fax +389 22 460 298
Elektro-smk@telekabel.net.mk
- MT Malta**
E. S. S., Electrical Supplies
& Services Ltd
104 J. Sciberras Str.
Hamrun HMR 08
Phone +356 21 255 777
Fax +356 21 255 999
robert@ess.com.mt
- MU Mauritius**
MUBELO Electrical Ltd
Office 26, Gateway building,
St. Jean Road, Quatre Bornes
Phone +230 467 0989
Fax +230 465 4051
richard.mubelo@orange.mu
- MX Mexico**
W Interconnections, S.A. DE C.V.
Blvd. Hermanos Serdán No. 698
Col. San Rafael Oriente
Puebla, C.P. 72029
Phone +52 222 22686227
clientes@weidmuller.com.mx
- MY Malaysia**
Connect Plus Technology Sdn Bhd
No. 43, Jalan PJS 11/22,
Bandar Sunway, 46150 Petaling Jaya
Selangor Darul Ehsan
Phone +60 3 5633 7363
Fax +60 3-5633 6562
paul@cptech.com.my
www.cptech.com.my
- NL Netherlands**
Weidmüller Benelux B.V.
Franciscusweg 221
1216 SE Hilversum
Postbus 1505
1200 BM Hilversum
Phone +31 35 6261261
Fax +31 35 6232044
info@weidmuller.nl
- NO Norway**
Siv. Ing. J. F. Knudtzen A/S
Billingstadsletta 97
P.O. Box 160
1378 Nesbru
Phone +47 66 983350
Fax +47 66 980955
firmapost@jfkudtzen.no
www.jfkudtzen.no
- NZ New Zealand**
Cuthbert S. Steward Limited
27 Te Puni Street
POB 38496
Petone, Wellington
Phone +64 4 5686156
Fax +64 4 5686056
info@weidmueller.de
- OM Oman**
DAN INTERNATIONAL LLC.
PO.BOX 2901
111 Seeb
Phone +968 503 677
Fax +968 503 755
yedu@danintl.com
- PE Peru**
IMGEPRO DEL PERU S.A.C.
Jr. Arequipa 3410, Lima 31, Peru
Phone / Fax +51 1 569-7678
dbernardo@imgepro.com.pe
www.imgepro.pe
- Peru**
J & W CIA. S.A.
Calle 6 Mz. D Lte. 23
Urb. Ind. Grimanesa
Callao 01
Phone +51 1 57 22539
Fax +51 1 57 20152
lespinoza@jwcia.com
www.jwcia.com
- PH Philippines**
Enclosure Systems Specialists Inc
Room 103 Narra Building
2276 Don Chino Roces Avenue
Makati City 1231
Phone +63 2 813 8580
Fax +63 2 813 8596
sales_encsys@pltdsl.net
- PK Pakistan**
Kana Controls (Pak)
Apartment No. 33 C III
Chenab Block,
Allama Iqbal Town
Lahore, Pakistan
Phone +92 42 5419948
+92 42 7845160
Fax +92 42 5422895
nadeem@kanapak.com
www.kanapak.com
- PL Poland**
Weidmüller Sp. z o.o.
Ul. Golezdzinowska 10
03-302 Warszawa
Phone +48 22 5100940
Fax +48 22 5100941
biuro@weidmuller.com.pl
www.weidmuller.pl
- PT Portugal**
Weidmüller Sistemas de
Interface S. A.
Estrada Outeiro Polima, R. Augusto
Dias da Silva, Lote B, Esc. 2
2785-515 Abóboda -São Domingos
de Rana
Phone +351 21 4459191
Fax +351 21 4455871
www.weidmuller.pt
- QA Qatar**
Qatar
Doha Motors Trading Co.
(Technical Division)
Post Box No. 145
Airport Road
Doha - Qatar
Phone +974 465 1441
Fax +974 465 0925
dmtctech@qatar.net.qa
- RO Romania**
Rominterface Impex SRL
Str. Gh. Dem Teodorescu 30 A
30916 Bucuresti - sector 3
Phone +40 21 3220230
Fax +40 21 3228857
office@rominterface.ro
- RS Serbia**
ES-YU Elektrosistem
Pariske komune 41
11070 Novi Beograd, Serbia
Phone +381 11 3018660
Fax +381 11 2693608
esyu@eunet.rs
www.elektrosistem.co.rs
- RU Russia**
OOO Weidmüller
Varshavskoye highway, 25A, bld. 6
117105 Moscow
Phone +7 4 95 771-6940
Fax +7 4 95 771-6941
info@weidmueller.ru
www.weidmueller.ru
- SA Saudi Arabia**
Al Abdulkarim Holding Co.
P.O Box. 4
Dammam 31411
Phone +966 8337110
Fax +966 8338242
salehsk@akh.com.sa
www.akte.com.sa
- Saudi Electric Supply Co.**
P.O. Box 3298
Al Khobar 31952
Phone +966 3 882 9546227
Fax +966 3 882 9547
Safdar.malik@sesco-ge.com
- SE Sweden**
Weidmüller AB
Axel Daniéssons väg 271
P.O. box 31025
200 49 Malmö
Phone +46 (0) 7 71 43 00 44
Fax +46 (0) 40 37 48 60
info@weidmuller.se
www.weidmuller.se
- SG Singapore**
Weidmüller Pte. Ltd.
70 Bendemeer Road
#04-03 Luzerne
Singapore 339940
Phone +65 6841 5311
Fax +65 6841 5377
info@weidmuller.com.sg
www.weidmuller.com.sg
- SI Slovenia**
ELEKTROPOJJI d.o.o.
Stegne 25, 1000 Ljubljana
Phone +386 15113810
Fax +386 15111604
info@elektropojji.si
www.elektropojji.si
- SK Slovakia**
ELEKTRIS s.r.o.
Elektrárenská 1
83104 Bratislava
Phone +421 2 49200113
Fax +421 2 49200119
bratislava@elektris.sk
- TH Thailand**
Pisanu Engineering Co., Ltd
800/43-45 Soi Trakulsuk
Asoke-dindaeng Road,
Dindaeng, Bangkok 10400
Phone +66 2 245 9113
Fax +66 2 6429220
jayasankar@pisanu.co.th
www.pisanu.co.th
- TN Tunisia**
Please contact
Weidmüller E.U.R.L. in France
- TR Turkey**
Weidmüller Elektronik Ticaret Ltd.
Sirketi
Kavacik Mah. Orhan Veli Kanik
Caddesi 9/1
34810 Beykoz – Istanbul
Phone +90 216 5371070 (Pbx)
Fax +90 216 5371077
info@weidmuller.com.tr
www.weidmuller.com.tr
- TW Taiwan**
Fittatek Co., Ltd.
12F No. 165 Fu-Kuo Road,
Tso Ying Dist, Kaohsiung
Phone +886 7 556 0358
Fax +886 7 556 3279
stanley@fittatek.com.tw
www.fittatek.com.tw
- Taiwan**
Eucan Enterprise Ltd.
No. 145 He Ping 2nd Rd
Kaohsiung
Phone +886 7 715 6610
Fax +886 7 715 8748
mark@eucan.com.tw
www.eucan.com.tw
- UA Ukraine**
TEKO INTERFACE ooo
ul. Lewanewskogo 6
03058 Kiev
Phone +38 044 401 09 90
Fax +38 044 401 08 64
weidmueller@tekointerface.com
www.tekointerface.com.ua
- US United States**
W-Interconnections Inc.
821 Southlake Boulevard,
Virginia - Richmond 23236
Phone +1 804 7942877
Fax +1 804 3792593
info@weidmuller.com
www.weidmuller.com
- UY Uruguay**
REWO Uruguay S.A
Av. Bolivia 2001 Esq Rocafuerte
Carrasco Montevideo 11300
Phone / Fax +598 260 48439
clorda@rewouruguay.com.uy
- UZ Uzbekistan**
OOO "Elektro Potential"
Gani Mavjjanova str., 2B
100084 Tashkent
Phone +998 98-3003821
Fax +998 71-1249286
mz1958@yandex.ru
- VE Venezuela**
Somierinca C.A.
Quinta Sagrado Corazon de Jesus -
3ra Transversal - Los Dos Caminos,
Caracas 1070 - A
Phone +58 212 2352748
Fax +58 212 2399341
kiocmoeller@cantv.net
www.kmsomerinca.com.ve
- VN Vietnam**
AUMI Co., Ltd
E1, La Thanh Hotel,
218 Doi Can Street,
Lieu Giai Ward, Ba Dinh District,
Hanoi City
Phone +84 4762 8601
Fax +84 4266 1391
aumi@aumi.com.vn
- Linh Kim Hai Co., Ltd**
78 Hoa Cuc Street Ward 7,
Phu Thuan District,
Ho Chi Minh City
Phone +84 8517 1717
Fax +84 8517 1818
lkh@linhkimhai.com.vn
- ZA South Africa**
Phambili Interface (Pty) Ltd
P.O. Box 193, 1609 Johannesburg
5 Bundo Road, Sebenza
1610 Johannesburg, Endenvale
Phone +27 11 452 1930
Fax +27 11 452 6455
sales@weidmuller.co.za
www.radinterface.co.za
- DE Other countries**
Weidmüller Interface GmbH & Co. KG
Postfach 3030
32720 Detmold
Klingenbergstraße 16
32758 Detmold
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