Архангельск (8182)63-90-72
Астана (7172)727-132
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Липецк (4742)52-20-81
Киргизия (996)312-96-26-47
Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Казахстан (772)734-952-31
Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Россия (495)268-04-70
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Тверь (4822)63-31-35
Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
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Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93

**https://weidmuller.nt-rt.ru/ || wde@nt-rt.ru**

# Heavy Duty Connectors

# RockStar®

Let's connect.

Weidmüller

# Heavy Duty Connectors – RockStar®
Catalogue 3


| | | |
|---|---|---|
| **Heavy Duty Connectors – RockStar®** | Overview | |
| | RockStar® inserts | |
| | RockStar® ModuPlug modular system | |
| | RockStar® Housings IP65 / NEMA Type 12, 4X | |
| | RockStar® Housings IP65 / EMC | |
| | RockStar® Housings IP66 / IP68 / EMC | |
| | RockStar® Wall mounting housing IP66 | |
| | RockStar® HighPower | |
| | RockStar® Kits | |
| | RockStar® accessories, tools and cable glands | |
| **Appendix** | **Service and support** | |
| | **Index** | Search according to type or order number, Addresses worldwide |

# Heavy Duty Connectors – RockStar®

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**RockStar® ModuPlug modular system** Page C.2

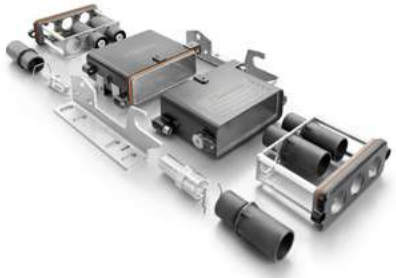
**RockStar® Housings IP65 / NEMA Type 12, 4X** Page D.2

**RockStar® Housings IP65 / EMC** Page E.2

**RockStar® Housings IP66 / IP68 / EMC** Page F.2

**RockStar® Wall mounting housing IP66** Page G.2

**RockStar® HighPower** Page H.2



**RockStar® Kits** Page I.2

# Heavy Duty Connectors – RockStar®

**RockStar® accessories, tools and cable glands** Page J.2

# Overview


| | | |
|---|---|---|
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| | Overview of sizes 2, 5, 7, 9 – fixed pole | A.5 |
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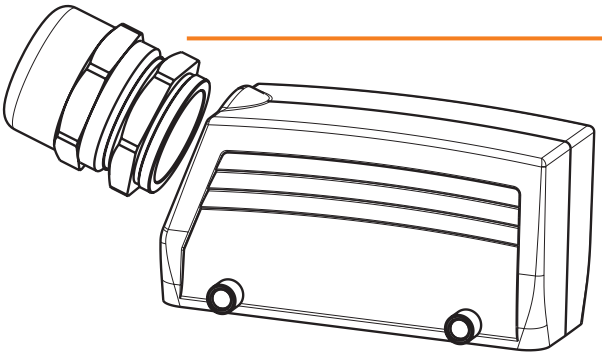
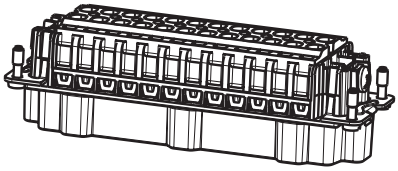
| | Safety information and standards | A.42 |

# Construction of heavy-duty connectors – fixed pole

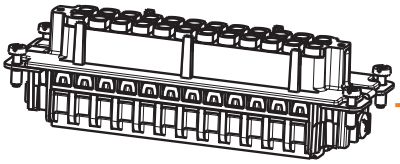


Cable gland

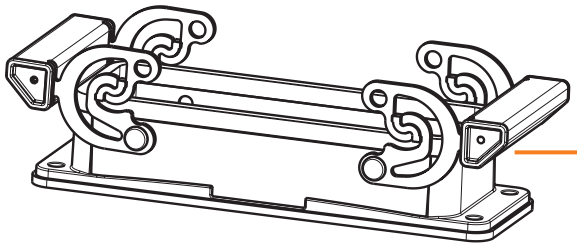
Hood



Male insert

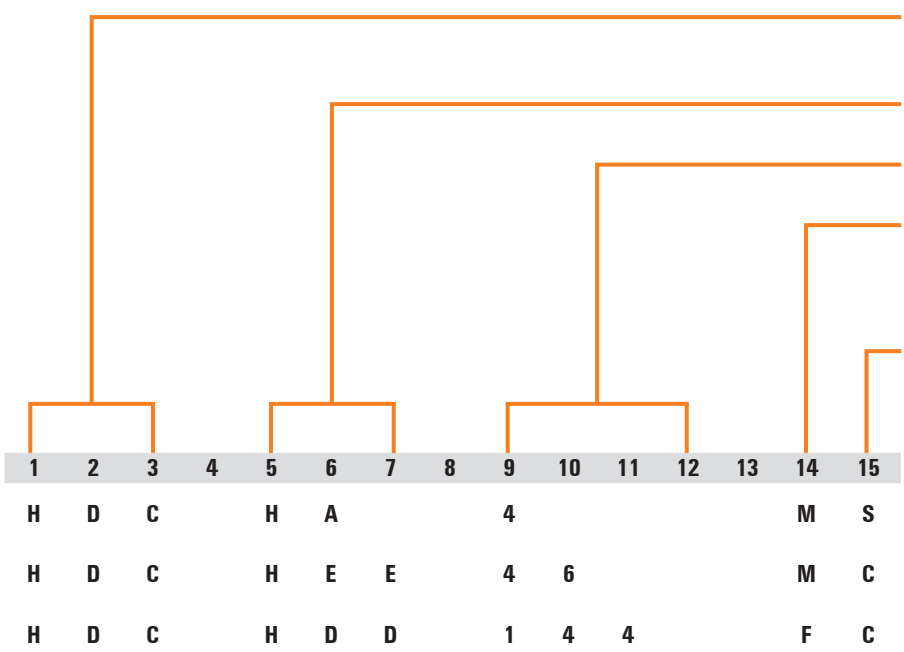


Female insert



Bulkhead housing

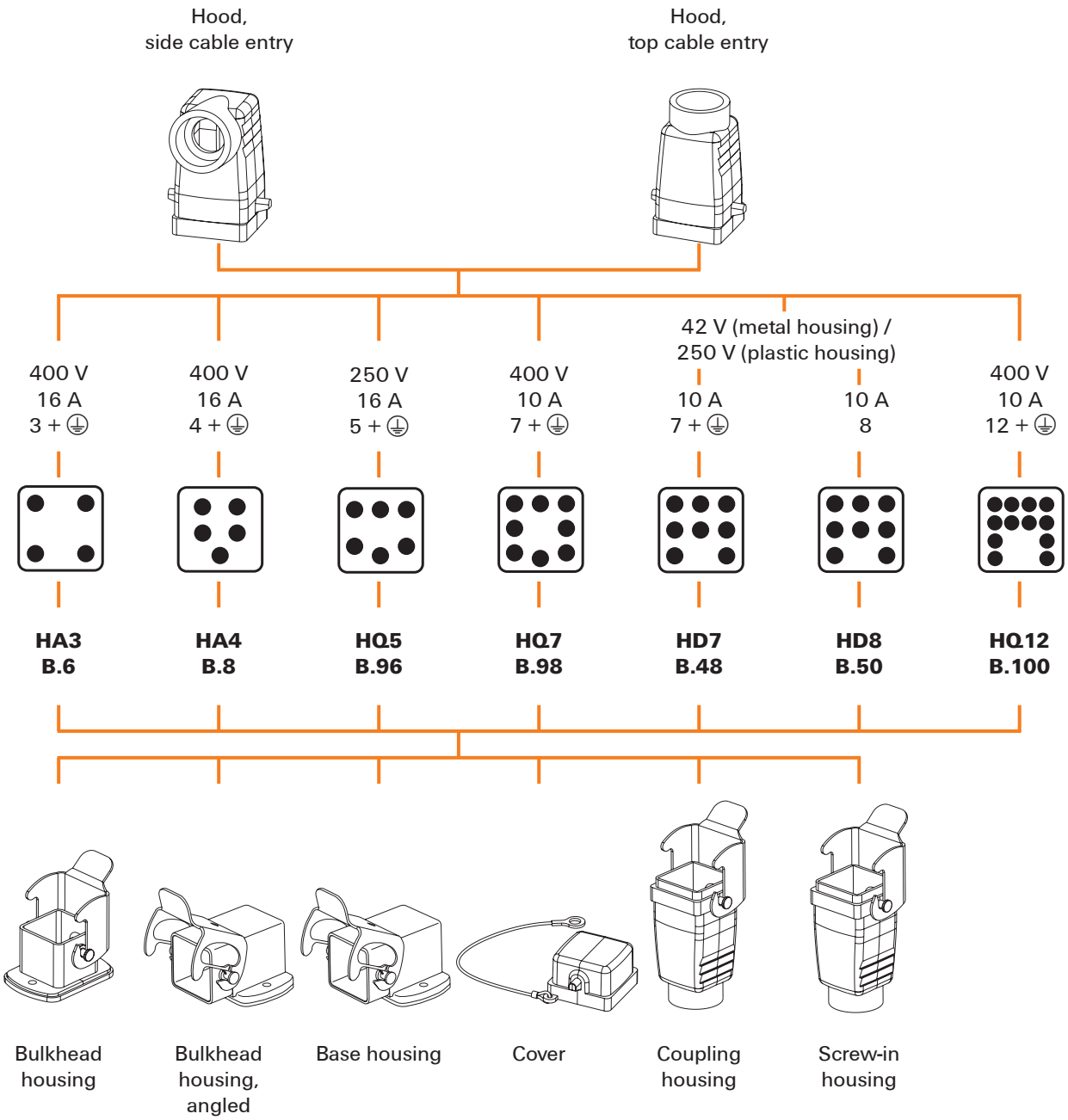
# Part codes for inserts



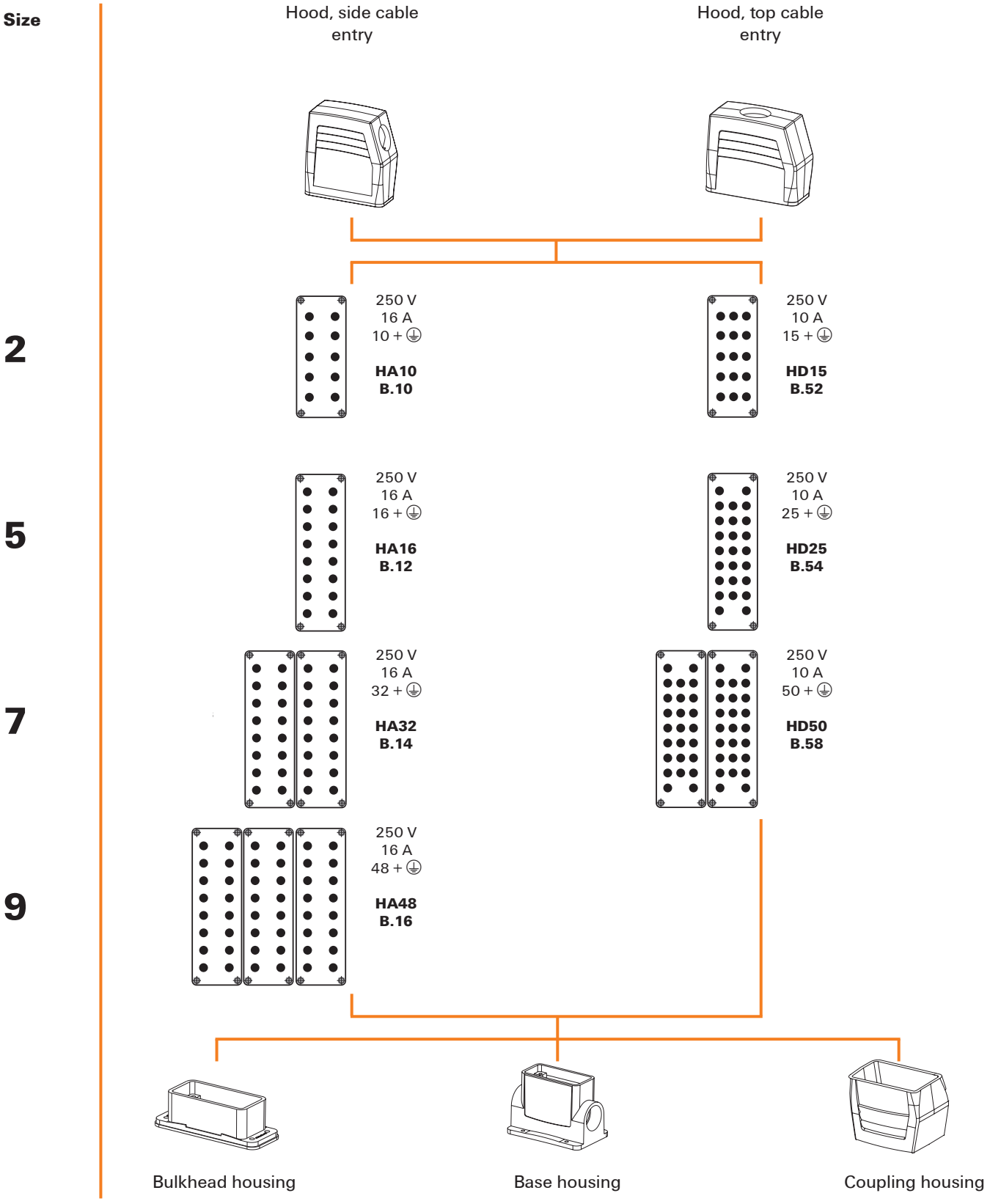
# Overview of size 1 – fixed pole

**Size**

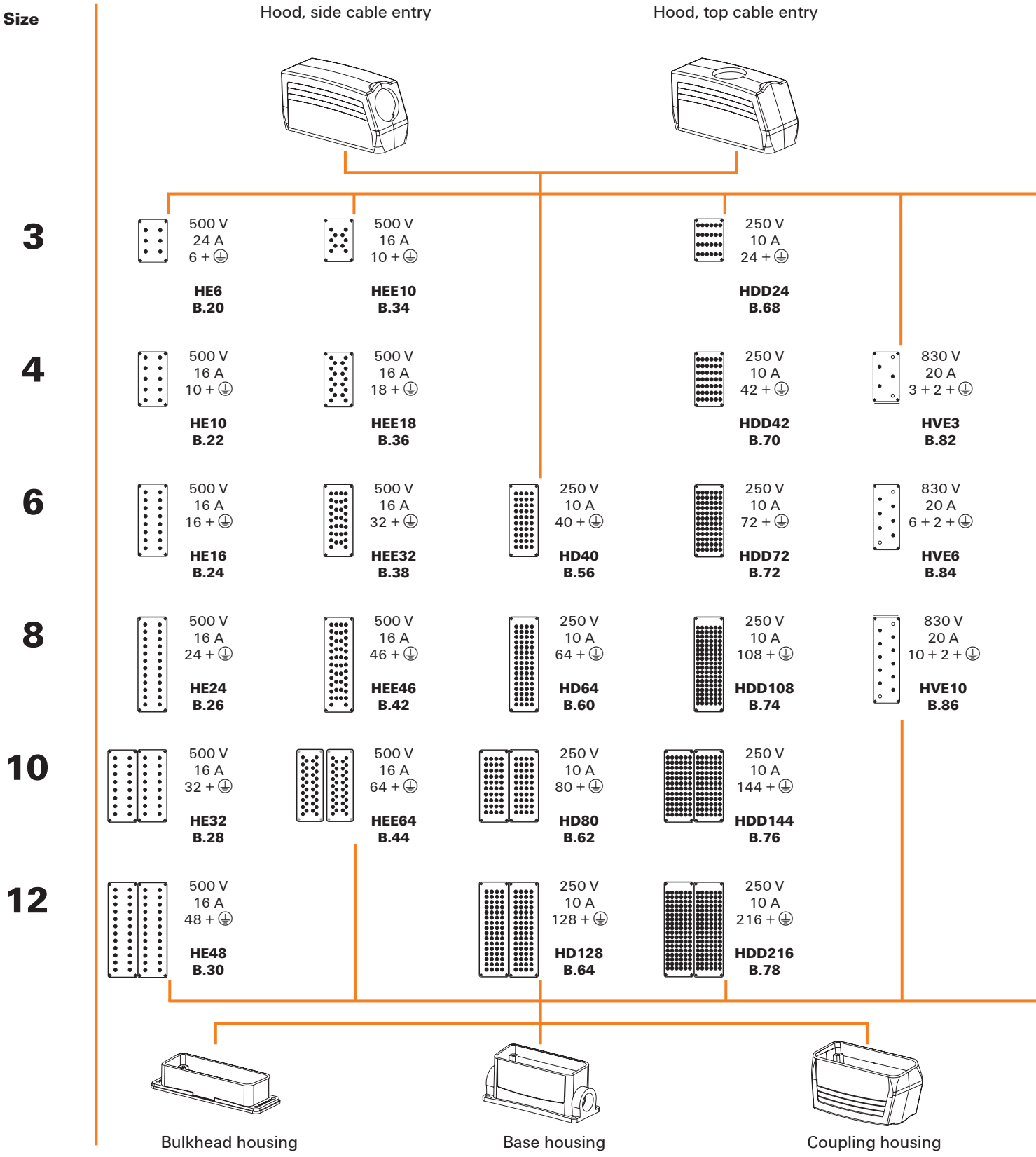
**1**

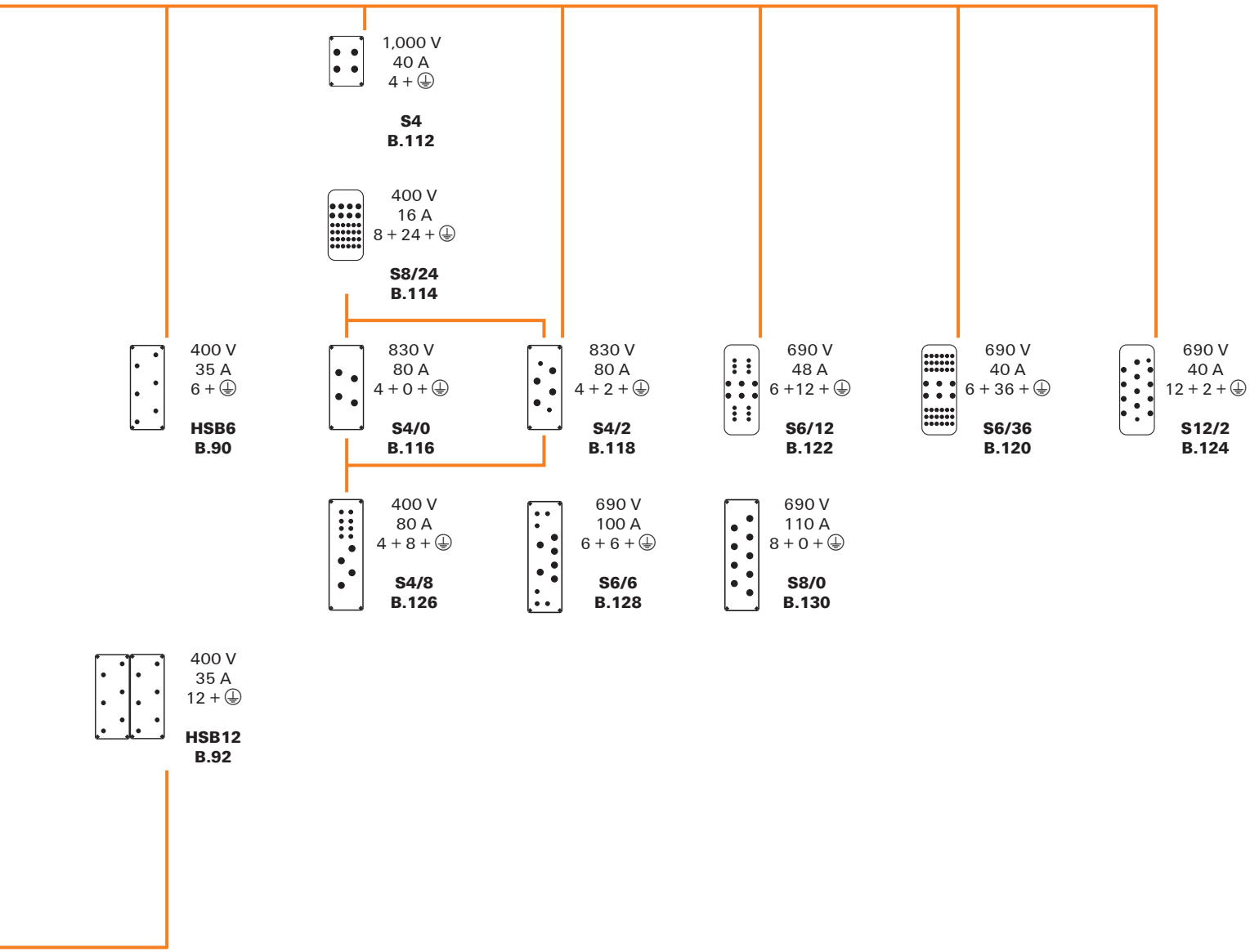


# Overview of sizes 2, 5, 7, 9 – fixed pole



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

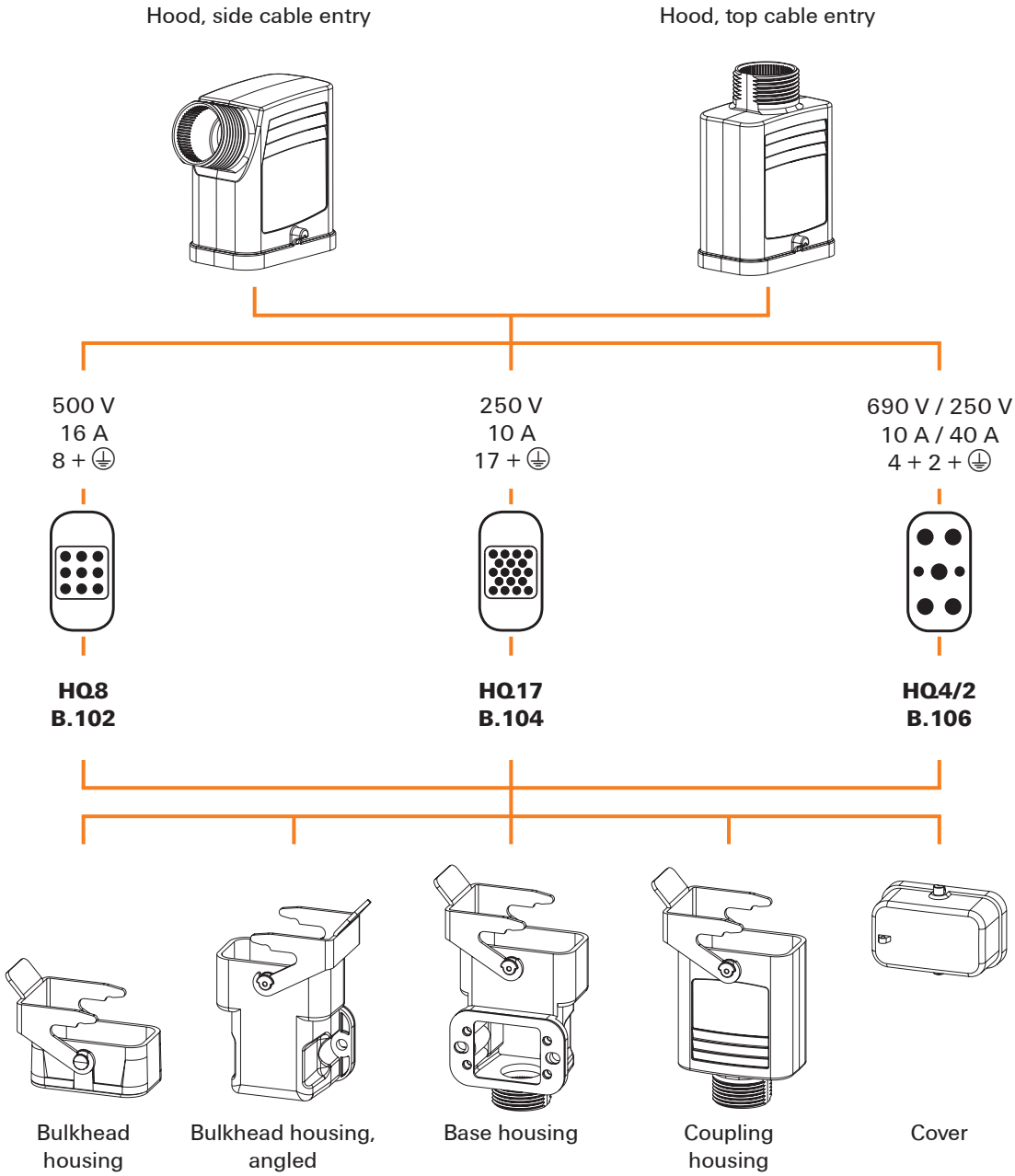



1,000 V
40 A
4 + ⏚
S4
B.112
400 V
16 A
8 + 24 + ⏚
S8/24
B.114
400 V
35 A
6 + ⏚
HSB6
B.90
830 V
80 A
4 + 0 + ⏚
S4/0
B.116
830 V
80 A
4 + 2 + ⏚
S4/2
B.118
690 V
48 A
6 +12 + ⏚
S6/12
B.122
690 V
40 A
6 + 36 + ⏚
S6/36
B.120
690 V
40 A
12 + 2 + ⏚
S12/2
B.124
400 V
80 A
4 + 8 + ⏚
S4/8
B.126
690 V
100 A
6 + 6 + ⏚
S6/6
B.128
690 V
110 A
8 + 0 + ⏚
S8/0
B.130
400 V
35 A
12 + ⏚
HSB12
B.92

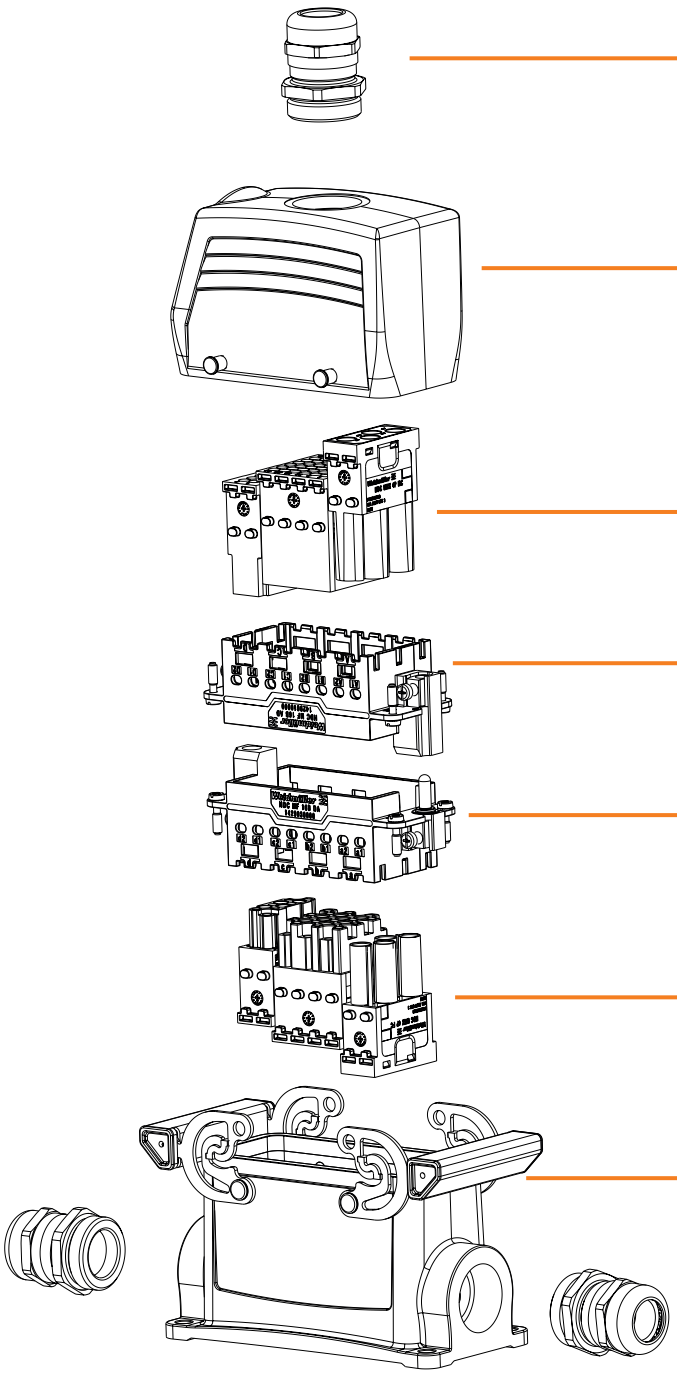
# Overview of size HQ – fixed-pole

**Size**

## HQ



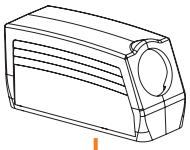
# Construction of heavy-duty connectors – modular



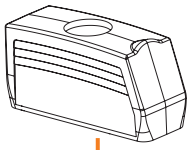
# Overview of sizes 3, 4, 6, 8, 10, 12 – modular

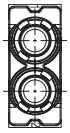
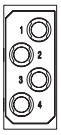
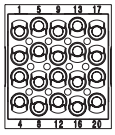
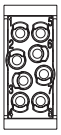
**Size**

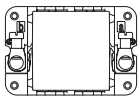
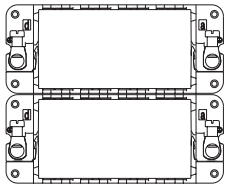
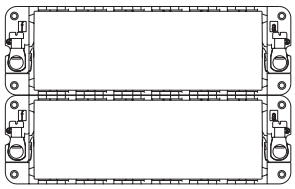
Hood, side cable entry

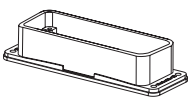


Hood, top cable entry

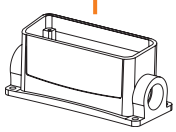


| 200 A<br>1,000 V<br>25 – 70 mm² | 100 A<br>1,000 V<br>10 – 35 mm² | 70 A<br>1,000 V<br>6 – 25 mm² | 40 A<br>830 V<br>1.5 – 6 mm² | 40 A<br>690 V<br>1.5 – 10 mm² | 16 A<br>830 V<br>0.5 – 4 mm² | 16 A<br>500 V<br>0.5 – 4 mm² | 16 A<br>400 V<br>0.5 – 4 mm² | 16 A<br>500 V<br>0.5 – 4 mm² | 16 A<br>400 V<br>0.5 – 2.5 mm² | 16 A<br>400 V<br>0.5 – 2.5 mm² |
|---|---|---|---|---|---|---|---|---|---|---|
| | |  |  | | |  |  | | | |
| **MHP 200**<br>**C.8** | **MHP 100**<br>**C.9** | **MHP 70**<br>**C.10** | **MHX 4P**<br>**C.11** | **MHX 3**<br>**C.12** | **MHE 6P**<br>**C.13** | **MHE 20**<br>**C.14** | **MHE 8**<br>**C.15** | **MHE 6**<br>**C.16** | **MHE 5**<br>**C.17** | **MHE 4(X)**<br>**C.18** |

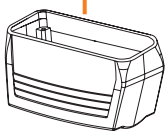
| | | |
|---|---|---|
| **3** |  | MF 6B for 2 modules<br>**C.6** |
| **4** | | MF 10B for 4 modules<br>**C.6** |
| **6** | | MF 16B for 4 modules<br>**C.7** |
| **8** | | MF 24B for 6 modules<br>**C.7** |
| **10** |  | 2 x MF 16B for 8 modules<br>**C.7** |
| **12** |  | 2 x MF 24B for 12 modules<br>**C.7** |



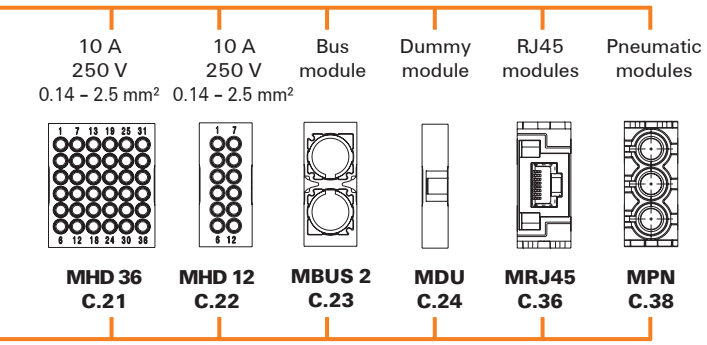
Bulkhead housing



Base housing

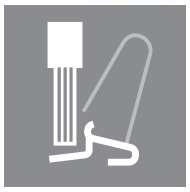


Coupling housing


10 A
250 V
0.14 – 2.5 mm²
10 A
250 V
0.14 – 2.5 mm²
Bus module
Dummy module
RJ45 modules
Pneumatic modules
1 7 13 19 25 31
6 12 18 24 30 36
1 7
6 12
MHD 36
C.21
MHD 12
C.22
MBUS 2
C.23
MDU
C.24
MRJ45
C.36
MPN
C.38

# The right connection for every application

No matter which type of system you implement for which application — Weidmüller has the right connection for you. Depending on your requirements, we offer inserts with the appropriate connection technology for an optimum connection. Now also with the new, future-proof SNAP IN connection technology.

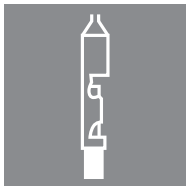



**SNAP IN connection: Connect faster than ever before**

- Significant acceleration of installation and maintenance processes in the field
- Tool-free: Saves material and time, since crimping on of wire end ferrules is unnecessary Insert stripped
- Flexible, stranded wire into open connection point until “click” is audible
- Secure connection that withstands even severe shocks and vibrations reliably

**PUSH IN connection**

- Easy, vibration-resistant and gas-tight connection
- Simply inserted flexible conductors with crimped wire end ferrules, solid-core conductors or ultrasonicwelded conductors into the terminal point
- Spring and conductor stops ensure optimum connection conditions and a guide for the screwdriver to detach the conductor

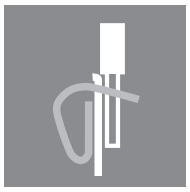


**Crimp connection**

- Contacts can be crimped on the conductor outside of the connector and then inserted into the connector
- Wires are fed into a metal sleeve, which is then squeezed together with a special tool
- Corrosion and vibration proof connection

**Axial screw connection**

- Small space taken up by the contact
- Easy to use: To make up the connection, the tool and conductor are held in a line
- Three steps for a secure connection: strip the conductor, insert the wire into the contact chamber, screw in the contact

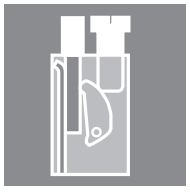


### Tension clamp connection

- Low contact resistance and high corrosion resistance
- Tension spring, made from high-quality rustproof and acid-proof steel, pulls the conductor against the tin-plated copper current bar
- Resistant to vibrations and high wire pull-out force

### Screw connection

- Excellent contact force even for large cross sections
- Perfectly suited for use in corrosive environments
- Wire-protection frame ensures that finely-stranded wires will not splice off



### TOP connection

- Parallelism of conductor entry and screw actuation: Simple wiring, for example with small lateral distances in installation boxes
- The conductor is pressed directly against the conductor rail via the hardened steel pressure clip
- The high contact force guarantees a gas-tight connection

# The right connection for every application

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

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

# Crimp contacts

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

The heart of a connector is its contacts. They make up the actual connection between two conductors. Two types of contacts make this possible: pins and sockets (male and female). The pin conducts the electrical current on its outer surface and is introduced into the socket, which conducts the electrical current on its inner surface. Heavy-duty connectors have copper alloy contacts and the contact surfaces are plated with gold or silver: silver improves conductivity, gold is corrosion-proof.

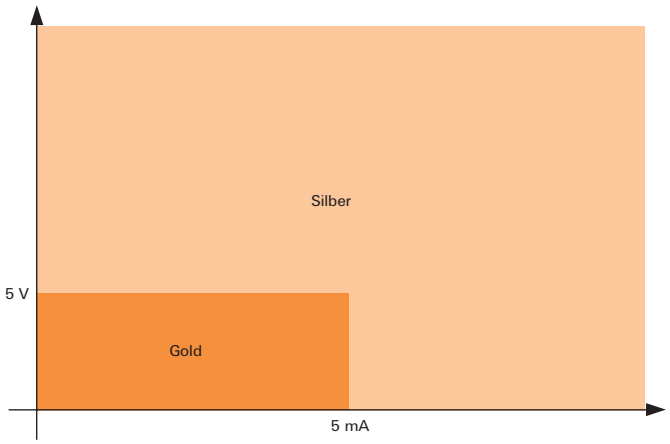
Crimp contacts are available in turned, solid form.

**Selection of silver or gold-plated contacts**

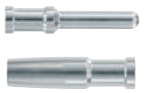
When using plug-in connectors under standard conditions, the resistance between the contacts has little effect. Even heavily corroded silver-coated contact pins and sockets do not exhibit any contact problems.

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

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



## Overview of crimp contacts

| | Article | Properties | | Usage |
|---|---|---|---|---|
| | HD-, HDD contacts | Rated current:<br>Cross-section:<br><br>Surface finish: | 10 A<br>0.14 – 2.50 mm²<br>AWG: 26 – 14<br>gold-plated<br>silver-plated | HD Series<br>HDD Series |
| | HE-, HEE contacts | Rated current:<br>Cross-section:<br><br>Surface finish: | 16 A<br>0.5 – 4.00 mm²<br>AWG: 20 – 12<br>gold-plated<br>silver-plated | HA Series<br>HE Series<br>HEE Series<br>HQ Series<br>MixMate Series |
|  | HX-contacts | Rated current:<br>Cross-section:<br><br>Surface finish: | 40 A<br>1.5 – 6.00 mm²<br>AWG: 16 – 10<br>silver-plated | HQ Series<br>MixMate Series |
| | CM-3 contacts | Rated current:<br>Cross-section:<br><br>Surface finish: | 57 A<br>1.5 – 10.00 mm²<br>AWG: 16 – 7<br>silver-plated | HighPower<br>signal contacts |
| | MHP 70 | Rated current:<br>Cross-section:<br><br>Surface finish: | 70 A<br>6 – 25 mm²<br><br>silver-plated | ModuPlug |
| | MHP contacts | Rated current:<br>Cross-section:<br><br>Surface finish: | 100 A<br>10 – 35 mm²<br>AWG: 8 – 2<br>silver-plated | MHP100 |
| | MHP 200 | Rated current:<br>Cross-section:<br><br>Surface finish: | 200 A<br>25 – 70 mm²<br><br>silver-plated | ModuPlug |
| | HP contacts | Rated current:<br>Cross-section:<br><br>Surface finish: | 250 A / 550 A<br>25 – 240 mm²<br><br>silver-plated | HighPower Series |

# Using wire-end ferrules

| Type of connection | Series | HA | HE | HVE | HSB |
|---|---|---|---|---|---|
| **Screw** | Clamping range [mm²] | 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<br>H0.5/16 – H2.5/16 | H0.5/14 – H2.5/14[2]<br>H0.5/16 – H2.5/16[2] | H0.5/14 – H2.5/14[2]<br>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)<br>H0.5/18.5 (ZH)<br>H0.75/17 (ZH)<br>H1.0/20 (ZH)<br>H1.5/20 (ZH) | H0.5/18.5 (ZH)<br>H1.0/20 (ZH)[3]<br>H1.5/20 (ZH)[3] | – | H0.5/15 (ZH)<br>H0.5/16.5 (ZH)<br>H0.5/18.5 (ZH)<br>H0.75/15 (ZH)<br>H0.75/17 (ZH)<br>H1.0/15 (ZH)<br>H1.0/20 (ZH)<br>H1.5/16 (ZH)<br>H1.5/20 (ZH)<br>H2.5/18.5 (ZH) |
| | Crimp tool | PZ4[2], PZ6, PZ6/5 | PZ4[2], PZ6, PZ6/5<br>PZ6 Hex[2] | PZ4[2], PZ6, PZ6/5<br>PZ6 Hex[2] | – |
| | Screwdriver | SDK PH0<br>SD 0.5x 3.0 | SDK PH0<br>SD 0.5x 3.0 | SDK PH0<br>SD 0.5x 3.0 | – |
| | Tightening torque | 0.5 Nm | 0.5 Nm | 0.5 Nm | – |
| **Tension clamp** | Clamping range [mm²] | 0.25 – 1.5<br>2.5 solid core | 0.25 – 2.5 | 0.25 – 2.5 | – |
| | Clamping range [AWG] | 24 – 14[4] | 24 – 14 | 24 – 14 | – |
| | Ferrules with collars | H0.5/14 – H1.5/14[4]<br>H0.5/16 – H1.5/16[4] | H0.5/14 – H2.5/14[2] | H0.5/14 – H2.5/14[2] | – |
| | Ferrules without collars | H0.5/10 – H1.5/10[4] | – | – | – |
| | Twin wire-end ferrules with collars | – | H0.5/15 (ZH)[5] or[6]<br>H0.75/15 (ZH)[5] or[6]<br>H1.0/15 (ZH)[5] or[6]<br>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 | – |
| **PUSH IN** | Clamping range [mm²] | – | solid 0.5 – 4 mm²<br>flexible with ferrule<br>0.5 – 2.5 mm² | – | – |
| | Clamping range [mm²] | – | 20 – 12 | – | – |
| | Ferrules with collars | –<br>–<br>– | H0.5/14 – H1.5/14<br>H0.5/16 – H1.5/16<br>H0.75/18 – H2.5/18[2] | –<br>–<br>– | –<br>–<br>– |
| | Ferrules without collars | –<br>– | H0.5/10 – H2.5/10[2]<br>H1.5/12 – H2.5/12[2] | –<br>– | –<br>– |
| | Twin wire-end ferrules with collars | – | H0.5/18.4 ZH 500 V / 6 kV / 3<br>H1/20 ZH 400 V / 6 kV / 3<br>500 V / 6 kV / 3 only with protection degree of at least IP54<br>H1.5/20 ZH 400 V / 6 kV / 3<br>500 V / 6 kV / 3 only with protection degree of at least IP54 | – | – |
| | Ferrules crimped with | – | PZ4. PZ6. PZ6/5.<br>PZ6 Hex | – | – |
| **PE contact** | Clamping range [mm²] | 0.5 – 4.0<br>0.5 – 2.5 flexible | 0.5 – 4 | 0.5 – 4 | – |
| | Clamping range [AWG] | 20 – 12 | 20 – 12 | 20 – 12 | – |
| | Ferrules with collars | H0.5/16 – H2.5/16 | H0.5/16 – H4/16 | H0.5/16 – H4/16 | – |
| | Ferrules without collars | H0.5/10 – H2.5/10 | H0.5/10 – H4/10 | H0.5/10 – H4/10 | – |
| | Ferrules crimped with | PZ4 [2], PZ6, PZ6/5 | PZ4, PZ6, PZ6/5,<br>PZ6 Hex | PZ4, PZ6, PZ6/5,<br>PZ6 Hex | – |
| | Screwdriver | PH 1 | PH 1 | PH 1 | – |
| | Tightening torque | 1.2 Nm | 1.2 Nm | 1.2 Nm | – |

[1] Depending on the diameter of the insulation, the max. AWG wire may need to be pushed in with some force.
[2] The 2.5mm² wire must be inserted with some force.
[3] When the rated voltage is reduced to 400 V / 6 kV / 3 or with a protection degree of at least IP54.
[4] Only by tilting the screwdriver can the clamping point be opened all the way.
[5] Wire-end ferrules may be used when the rated voltage is reduced to 400 V / 6 kV / 3.
[6] When the protection degree is at least IP54, the creepage and clearance distances within the encapsulation may be rated for a lower pollution degree (DIN EN 61984). For this encapsulation, the use of wire-end ferrules is possible with 500 V / 6 kV / 3.
[7] The PZ4 crimping tool should not be used with the max. wire size.

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

# Tightening torques and screwing tools

| Screw size | Connector type | Dia. tightening torque in Nm | Recommended blade inserts and AF size for hexagon socket |
|---|---|---|---|
| **M2.5** | **Signal contacts** | | |
| | S 6/6 | 0.5 – 0.55 | SD 0.6 x 3.5 mm or PZ0 |
| | S 6/12 | 0.5 – 0.55 | SD 0.6 x 3.5 mm or PZ0 |
| **M2.9 x 0.5** | **Fastening screws** | | |
| | HQ 4/2 | 0.8 (plastic) / 1.1 (metal) | SD 0.6 x 3.5 mm or PH0 |
| | HQ 8 | 0.8 (plastic) / 1.1 (metal) | SD 0.6 x 3.5 mm or PH0 |
| | HQ 17 | 0.8 (plastic) / 1.1 (metal) | SD 0.6 x 3.5 mm or PH0 |
| **M3** | **Contact screws** | | |
| | HA 3 | 0.5 – 0.55 | SD 0.5 x 3.0 mm |
| | HA 4 | 0.5 – 0.55 | SD 0.5 x 3.0 mm |
| | HA 10 to HA 48 | 0.5 – 0.55 | SD 0.6 x 3.5 mm or PH0 |
| | HE | 0.5 – 0.55 | SD 0.6 x 3.5 mm or 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 |
| **M4** | **Contact screws** | | |
| | HSB | 1.2 – 1.5 | SD 0.6 x 3.5 or 0.8 x 4 mm or PZ1 |
| | **PE connection via male contact** | | |
| | S 4 | 0.5 – 0.8 | SD 0.6 x 3.5 mm |
| | ConCept modular frame, metal | 1.2 – 1.5 | SD 0.6 x 3.5 mm |
| | **PE terminal** | | |
| | HA | 1.2 – 1.5 | SD 0.6 x 3.5 or 0.8 x 4 mm or PH1 |
| | HE | 1.2 – 1.5 | SD 0.6 x 3.5 or 0.8 x 4 mm or PH1 |
| | HEE | 1.2 – 1.5 | SD 0.6 x 3.5 or 0.8 x 4 mm or PH1 |
| | HVE | 1.2 – 1.5 | SD 0.6 x 3.5 or 0.8 x 4 mm or PH1 |
| | HD | 1.2 – 1.5 | SD 0.6 x 3.5 or 0.8 x 4 mm or PZ1 |
| | HDD | 1.2 – 1.5 | SD 0.6 x 3.5 or 0.8 x 4 mm or PZ1 |
| | S 6/6 (for signal contacts) | 1.2 – 1.5 | 0.8 x 4 mm or PZ1 |
| | ConCept modular frame, plastic | 1.2 – 1.5 | 0.8 x 4 mm or PZ1 |
| **M5** | **PE terminal** | | |
| | HSB | 2 – 2.5 | SD 1 x 5.5 mm or 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 PZ2 |
| | 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 PZ2 |
| | S 6/36 | 2 – 2.5 | SD 1.2 x 6.5 mm or PH2 |
| | S 8/24 | 2 – 2.5 | SD 1.2 x 6.5 mm or PH2 |
| | S 12/2 | 2 – 2.5 | SD 1.2 x 6.5 mm or PH2 |
| **M6** | **Power contacts** | | |
| | S 4/0 (Screw connection) | 1.2 (1.5 mm²) / 2 (2.5 mm²) / 3 (4 – 16 mm²) | SD 0.8 x 4 mm |
| | S 4/2 | 1.2 (1.5 mm²) / 2 (2.5 mm²) / 3 (4 – 16 mm²) | SD 0.8 x 4 mm |
| | S 4/8 | 1.2 (1.5 mm²) / 2 (2.5 mm²) / 3 (4 – 16 mm²) | SD 0.8 x 4 mm |
| **M7 x 0.75** | **Power contacts** | | |
| | S 4 | 1.1 – 1.7 | SW 2 |
| | S 6/6 (+ PE) | 6 – 8 | SW 4 |
| **M8 x 0.75** | **Power contacts** | | |
| | S 6/12 | 1.1 – 1.7 | SW 2 |
| | S 8/0 (+ PE) | 6 (10 – 16 mm²) / 7 (25 mm²) | 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.

# Torque housing

| Series | Size | Version | Number of screws | Thread size | Recommended tightening torque |
|---|---|---|---|---|---|
| IP 65 | Size 1 | Attachment | 2 | M 3 | 0.8 ... 1.0 Nm |
| IP 65 | Size 2 | Attachment | 4 | M 3 | 0.8 ... 1.0 Nm |
| IP 65 | Size 3 | Attachment | 4 | M 4 | 0.8 ... 1.0 Nm |
| IP 65 | Size 4 | Attachment | 4 | M 4 | 0.8 ... 1.0 Nm |
| IP 65 | Size 5 | Attachment | 4 | M 3 | 0.8 ... 1.0 Nm |
| IP 65 | Size 6 | Attachment | 4 | M 4 | 0.8 ... 1.0 Nm |
| IP 65 | Size 7 | Attachment | 4 | M 4 | 0.8 ... 1.0 Nm |
| IP 65 | Size 8 | Attachment | 4 | M 4 | 0.8 ... 1.0 Nm |
| IP 65 | Size 9 | Attachment | 4 | M 5 | 2.5 Nm |
| IP 65 | Size 10 | Attachment | 4 | M 5 | 2.5 Nm |
| IP 65 | Size 12 | Attachment | 4 | M 5 | 2.5 Nm |
| | | | | | |
| EMV / IP65 | Size 3 | Attachment | 4 | M 4 | 1.0 Nm |
| EMV / IP65 | Size 4 | Attachment | 4 | M 4 | 1.0 Nm |
| EMV / IP65 | Size 6 | Attachment | 4 | M 4 | 1.0 Nm |
| EMV / IP65 | Size 8 | Attachment | 4 | M 4 | 1.0 Nm |
| | | | | | |
| IP 68 | Size 1 | Attachment | 2 | M 4 | 1.0 Nm |
| IP 68 | Size 3 | Attachment | 4 | M 6 | 3.0 Nm |
| IP 68 | Size 6 | Attachment | 4 | M 6 | 3.0 Nm |
| IP 68 | Size 8 | Attachment | 4 | M 6 | 3.0 Nm |
| | | | | | |
| IP 68 | Size 1 | Attachment/socket – plug | 2 | M 4 | 1.0 Nm |
| IP 68 | Size 3 | Attachment/socket – plug | 2 | M 6 | 3.0 Nm |
| IP 68 | Size 6 | Attachment/socket – plug | 2 | M 6 | 3.0 Nm |
| IP 68 | Size 8 | Attachment/socket – plug | 2 | M 6 | 3.0 Nm |
| | | | | | |
| IP66 | Size 3 | Flange-mounted housing | 2 | M 6 | 3 Nm |
| IP66 | Size 4 | Flange-mounted housing | 2 | M 6 | 3 Nm |
| IP66 | Size 6 | Flange-mounted housing | 2 | M 6 | 3 Nm |
| IP66 | Size 8 | Flange-mounted housing | 2 | M 6 | 3 Nm |

# RockStar® – Housing types

## Housing IP65 / NEMA Type 4X

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

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

etc.

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

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

### Interlock system
- Clamp lock in different versions
- rustproof stainless steel

## HQ Series Housings, IP65 / NEMA Type 4X

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

### Applications
- General machine construction
- Materials handling and factory construction
- Decentralised automation

etc.

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

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

### Interlock system
- Clamp interlock made from rust-free stainless steel

## IP65 EMC housing

In today's industrial environment, machines, plant and devices are becoming more and more complex. At the same time, automation is also on the rise. Lots of sensors and actuators are controlled to transmit or receive sensitive signals. And what's more, reliability and availability are becoming increasingly important quality features of machines and devices. This means that they need to be optimally designed in terms of electromagnetic compatibility (EMC).

### Applications
- Machine construction
- Wind energy
- Transportation

### Features
- Labyrinth structure on the housing
- FPM seal material
- Conductive surface
- O-ring seal
- IP65 protection class acc. to 60529
- Scratch-proof, corrosion resistant and durable

### Design
- Die-cast aluminium, resistant to sea water
- Multi-level surface coating
- Colour: black, similar to RAL 9005
- Four sizes
- Cable outlet is straight or lateral

### Interlock system
- Removable clamp lock in different versions
- Clamp system made of polyamide with internal stainless steel spring

## Housing IP68

The IP68 housings have been developed for use under extreme environmental conditions. The high degree of protection (IP68 and IP69K) and the excellent resistance to vibration and shock guarantee fail-safe operation when heavy-duty connectors are used in vehicles and under tough climatic conditions. If you want to protect your delicate interfaces from EMC emissions, these connectors are the right choice for you.

### Applications
- Transport and traffic engineering
- Energy technology
- Applications with extreme protection class requirements

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

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

### Interlock system
- Screw cap with internal/external hex drive

# RockStar® – Housing types

### Flange-mounted housing IP66

Our flange-mounted housings made of plastic have a built-in cable gland and a screw interlock. They seal directly onto the panel wall and can therefore be used without an attachment housing. The housings are impressive with their low weight and optimal protection against contamination, water and vibrations.

**Applications:**
- Machinery and plant engineering
- Automotive industry
- Panel building
- Wind power plants

**Features:**
- Impermeability IP66/67 acc. to IEC 60529
- Impermeability NEMA type 12, 4X
- Resistance against impacts acc. to DIN EN 50102
- Robust, durable, corrosion resistant

**Design**
- Plastic housing made of polyamide
- Colour: black
- Four sizes
- Cable outlet is straight or angled

**Interlock system**
- Screw connection with hexagon socket
- Material: stainless steel

# 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

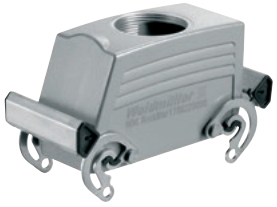
### Two transverse locking clamps on housing bottom

- 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 of plastic and rust-free stainless steel

### Screw fastening

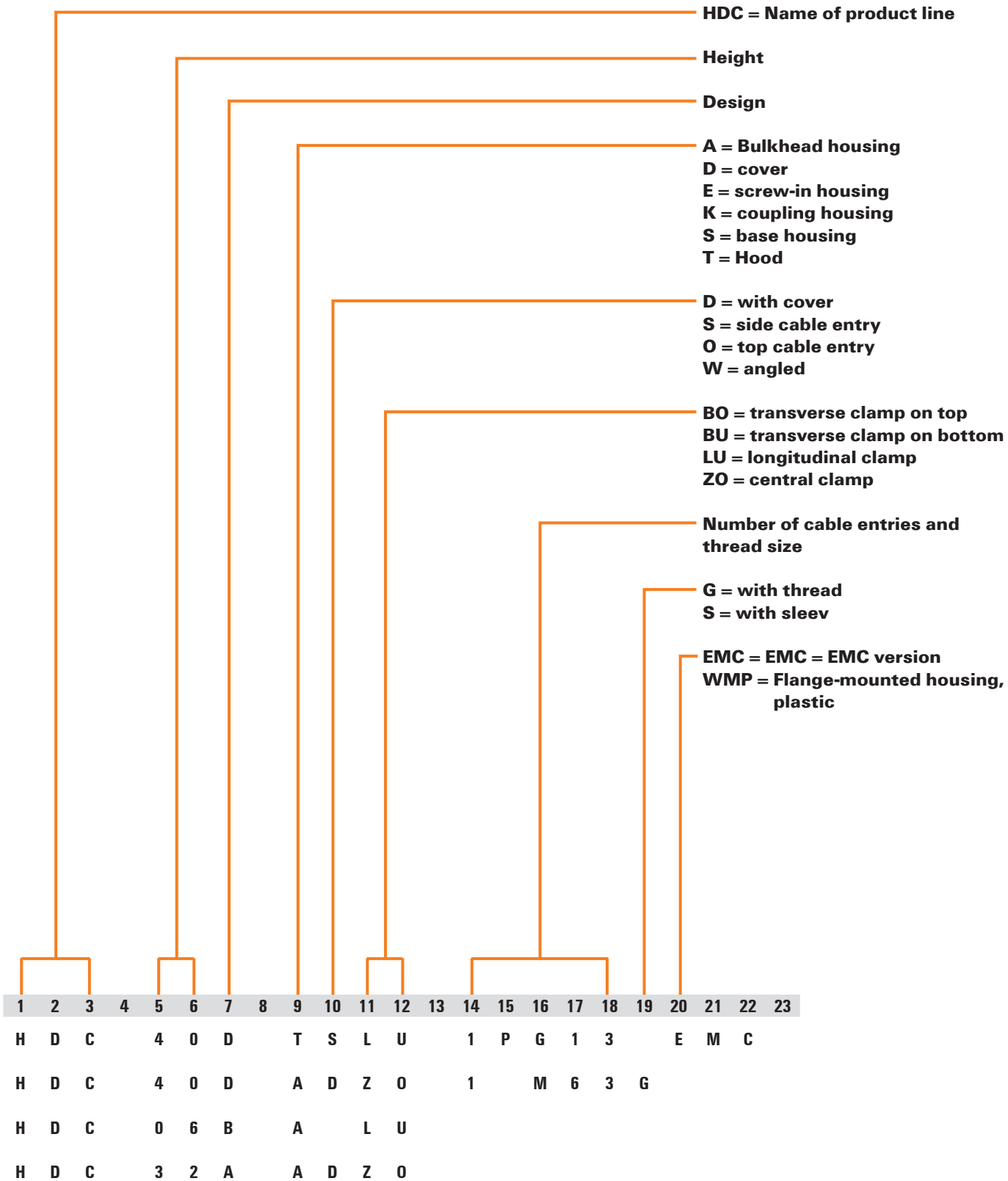
- Uses internal/external hex drive
- Most effective seal
- The two interlock points are arranged diagonally
- Easily accessible when space is tight
- Screws made from rust-free stainless steel

### Two transverse locking clamps on housing top

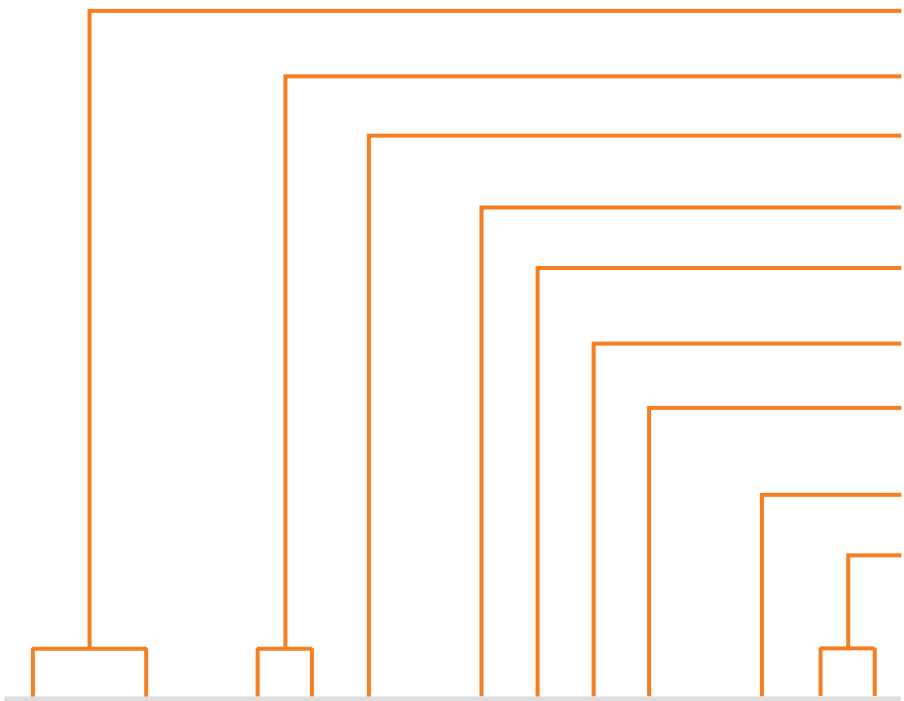


- Manual operation – no tools required
- 4 locking points – good sealing effect
- Easily accessible when the cable inlet is in the plugging direction
- Good for aligning side by side
- Interlock system made from rust-free stainless steel

# Part codes for housings IP65

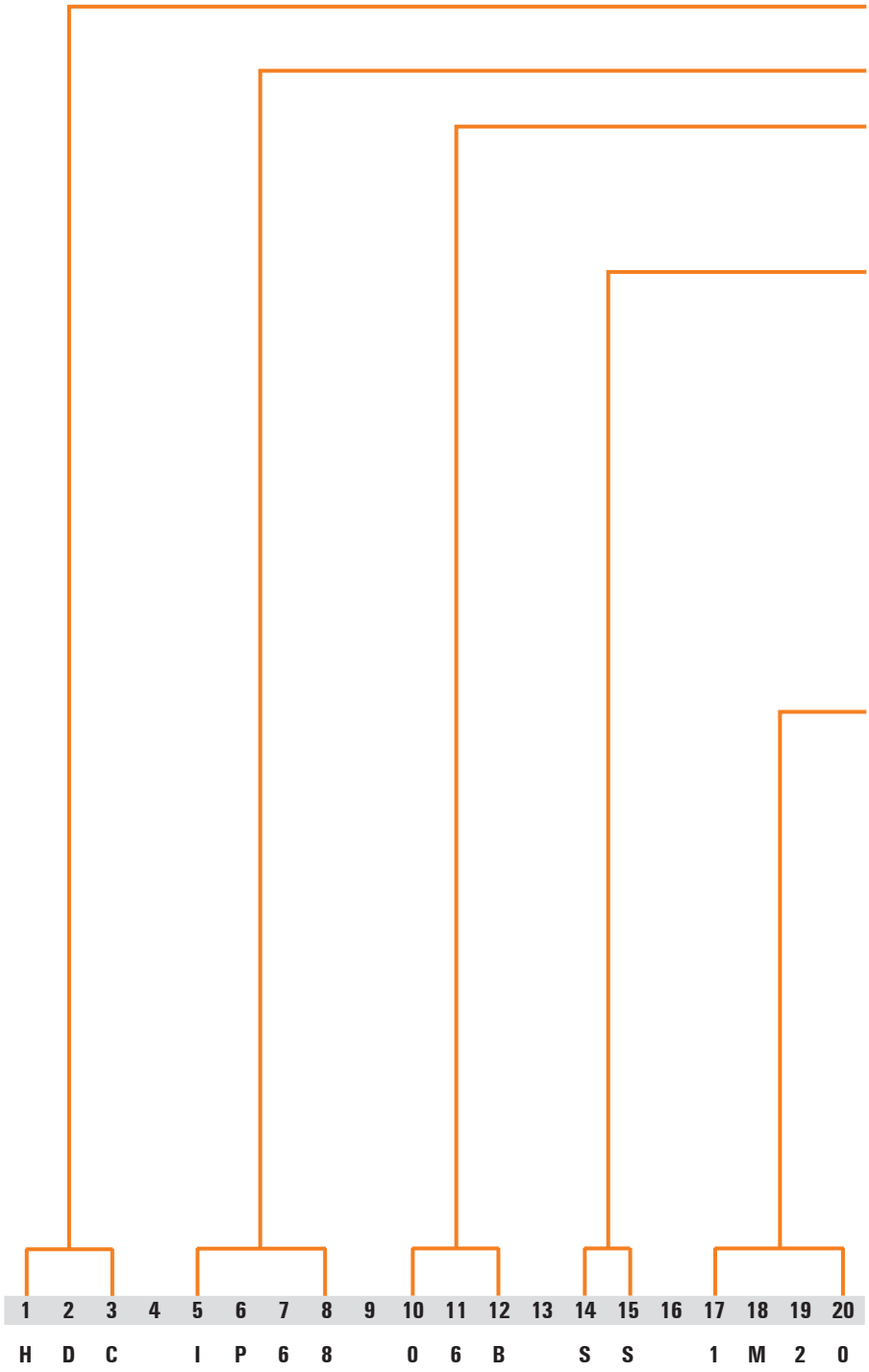


# Part codes for covers




| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| H | D | C | | 0 | 4 | A | | D | M | D | L | | 2 | B | O |
| H | D | C | | 1 | 0 | A | | D | O | D | L | | 1 | L | B |
| H | D | C | | 1 | 0 | B | | D | M | D | Q | | 2 | Q | B |

# Part codes for housings IP68




**HDC = Name of product line**

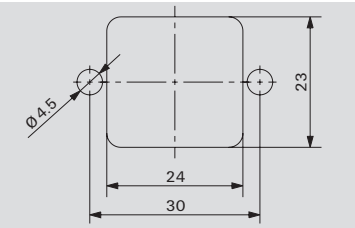
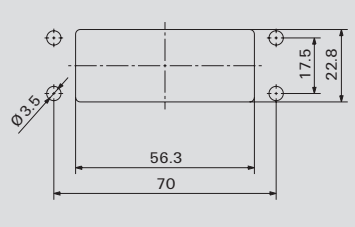
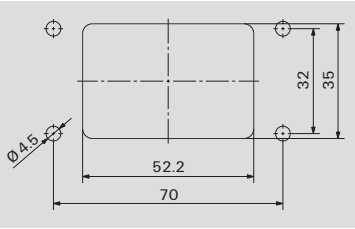
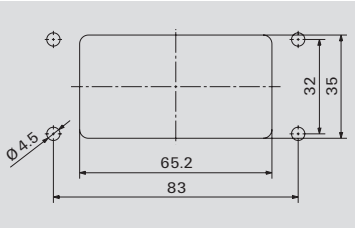
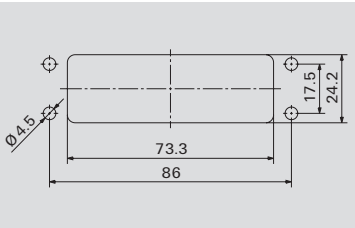
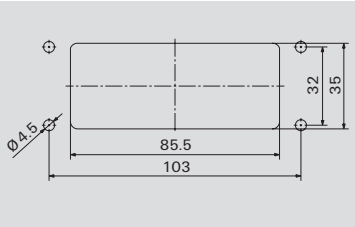
**IP68 = Name of product series**

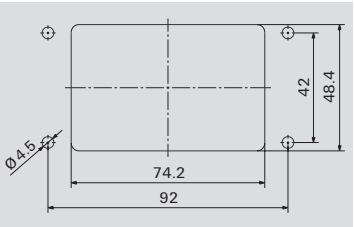
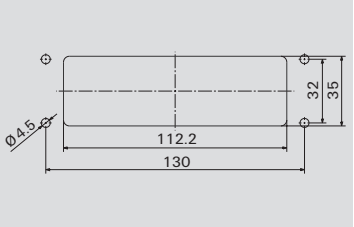
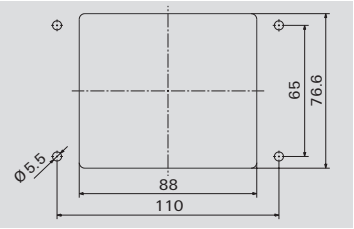
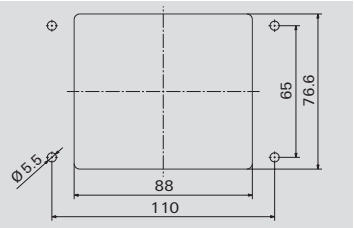
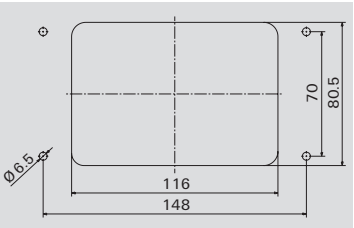
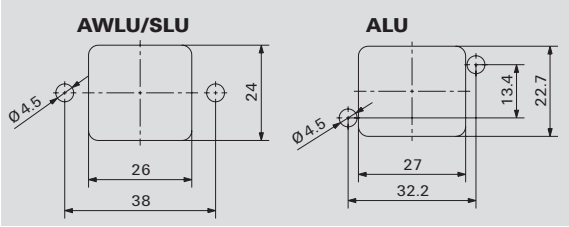
**06B = HDC size**
**10B**
**16B**
**24B**

**Version:**
**SS = Base housing**
**AS = Bulkhead housing**
**AWS = Bulkhead housing, angled**
**ADS = Adapter to mount bulkhead housing at an angle**
**TOS = Plug housing, cable outlet at top**
**TSS = Plug housing, cable outlet sideways**
**FRAME = Counter-frame**
**COVER = Cover**

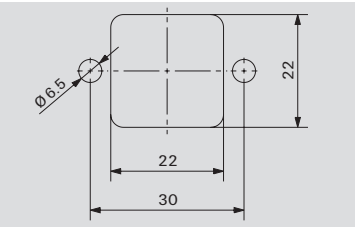
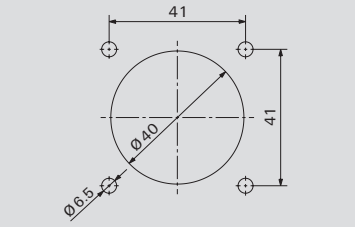
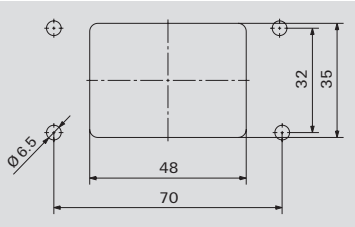
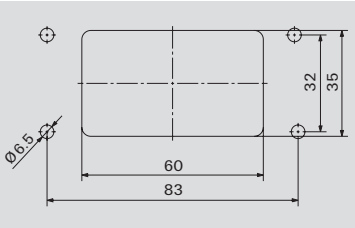
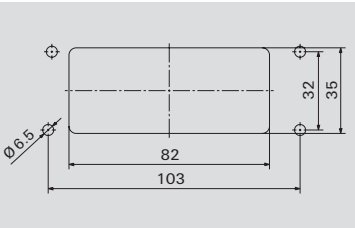
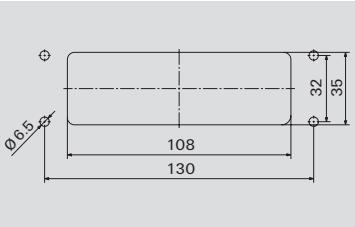
**Number and size of the cable entry holes**

# Panel cut-out
# Housings IP65

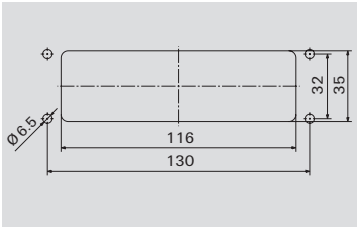
| Size | Designation | |
|---|---|---|
| BG1 | 04A/07A |  |
| BG2 | 10A |  |
| BG3 | 06B |  |
| BG4 | 10B |  |
| BG5 | 16A |  |
| BG6 | 16B |  |

| Size | Designation | |
|---|---|---|
| BG7 | 32A |  |
| BG8 | 24B |  |
| BG9 | 48A |  |
| BG10 | 32B |  |
| BG12 | 48B |  |
| HQ | |  |

# Panel cut-out Housings IP68

| Size | Designation | |
|---|---|---|
| BG1 | 04A |  |
| BG1 | 04A AWS |  |
| BG3 | 06B |  |
| BG4 | 10B |  |
| BG6 | 16B |  |
| BG8<br>BG8 | 24B<br>HP 24B |  |

# XXL Housings in IP68

| Size | Designation | |
|---|---|---|
| BG8 | HB24 |  |

# Electrical data

## Design of clearances and creepage distances in electrical equipment

### General

Since April 2003, the rules of DIN EN 60664-1 / 11.03 in conjunction with DIN 61984 / 09.02 apply to the dimensioning of clearances and creepage distances.

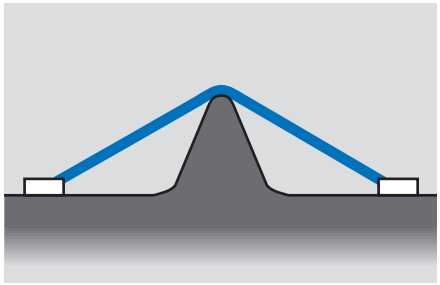
The design data resulting from these provisions is – if applicable – specified in this catalogue for each product.

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

### Clearances

Clearances are rated in accordance with the following factors:

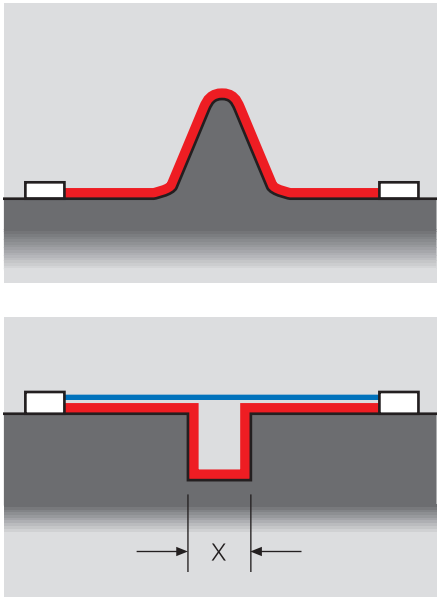
- Anticipated surge:
  **rated impulse withstand voltage**
- Used
  **surge protection precaution**
- Measures to prevent pollution:
  **pollution severity**



### Creepage distances

Creepage distances are rated in accordance with the following factors:

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




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

| Pollution severity | Minimum width x in mm |
|---|---|
| 1 | 0.25 |
| 2 | 1.0 |
| 3 | 1.5 |
| 4 | 2.5 |

If the associated clearance in air is less than 3 mm, the minimum slot width can be reduced to ⅓ 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**
Equiment 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 | For conductor-cond. insulat. | For conductor-earth isolation | |
|---|---|---|---|
| | all Systems | 3-phase 4-conductor systems with earthed neutral cond. | 3-phase 4-conductor systems unearthed or cond. earthed |
| V | V | V | V |
| 60 | 63 | 32 | 63 |
| 110<br>120<br>127 | 125 | 80 | 125 |
| 150 | 160 | - | 160 |
| 208 | 200 | 125 | 200 |
| 220<br>230<br>240 | 250 | 160 | 250 |
| 300 | 320 | - | 320 |
| 380<br>400<br>415 | 400 | 250 | 400 |
| 440 | 500 | 250 | 500 |
| 480<br>500 | 500 | 320 | 500 |
| 575 | 630 | 400 | 630 |
| 600 | 630 | - | 630 |
| 660<br>690 | 630 | 400 | 630 |
| 720<br>830 | 800 | 500 | 800 |
| 960 | 1,000 | 630 | 1,000 |
| 1,000 | 1,000 | - | 1,000 |

# Electrical data

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

### Rated voltage

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

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

| Rated voltage of the power supply (mains) *) | Voltages for table 4 | |
|---|---|---|
| | For insulation phase-to-phase 1) | For insulation phase-to-earth 1) |
| | All systems | 3-wire systems neutr. point earthing |
| V | V | V |
| 12.5 | 12.5 | - |
| 24/25 | 25 | - |
| 30 | 32 | - |
| 42/48/50**) | 50 | - |
| 60 | 63 | - |
| 30 - 60 | 63 | 32 |
| 100**) | 100 | - |
| 110/120 | 125 | - |
| 150**) | 160 | - |
| 220 | 250 | - |
| 110 - 220 | 250 | 125 |
| 120 - 240 | | |
| 300**) | 320 | - |
| 220 - 440 | 500 | 250 |
| 600**) | 630 | - |
| 480 - 960 | 1,000 | 500 |
| 1,000**) | 1,000 | - |

**3-phase**
**3- or 4-wire AC systems**

| Rated voltage of the power supply (mains) *) | Voltages for table 4 | | |
|---|---|---|---|
| | For insulation phase-to-phase | For insulation phase-to-earth | |
| | All systems | 3-phase 4-wire systems with earthed neutral wire 2) | 3-phase 3-wire systems unearthed 1) or phase-earthed |
| V | V | V | V |
| 60 | 63 | 32 | 63 |
| 110/120/127 | 125 | 80 | 125 |
| 150**) | 160 | - | 160 |
| 208 | 200 | 125 | 200 |
| 220/230/240 | 250 | 160 | 250 |
| 300**) | 320 | - | 320 |
| 380/400/415 | 400 | 250 | 400 |
| 440 | 500 | 250 | 500 |
| 480/500 | 500 | 320 | 500 |
| 575 | 630 | 400 | 630 |
| 600**) | 630 | - | 630 |
| 660/690 | 630 | 400 | 630 |
| 720/830 | 800 | 500 | 800 |
| 960 | 1,000 | 630 | 1,000 |
| 1,000**) | 1,000 | - | 1,000 |

1) Phase-to-earth insulation levels for unearthed or impedance-earthed systems are equal to those of phase-to-phase because the operating voltage to earth of any phase can, in practice, reach full phase-to-phase voltage. This is because the actual voltage to earth is determined by the insulation resistance and capacitive reactance of each phase to earth; thus, a low (but acceptable) insulation resistance of one phase can earth it and raise the other two to full phase-to-phase voltage to earth.
2) For electrical equipment for use in both 3-phase 4-wire and 3-phase 3-wire supplies, earthed and unearthed, use the values for 3-wire systems only.
*) It is assumed that the rated voltage of the electrical equipment is not lower than the nominal voltage of the power supply.
**) Because of the common changes, the meaning of the ** symbol has not been used in table 1; i.e. the / symbol indicates a 4-wire 3-phase distribution system. The lower value is the phase-to-neutral voltage, while the higher value is the phase-to-phase voltage. Where only one value is indicated, it refers to 3-wire 3-phase systems and specifies the value phase-to-phase. The values given in table 1 are still taken into account in tables 3a and 3b by the ** symbol.

### Insulating material

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

| Insulating material | |
|---|---|
| I | 600 ≤ CTI |
| II | 400 ≤ CTI < 600 |
| III a | 175 ≤ CTI < 400 |
| III b | 100 ≤ CTI < 175 |

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

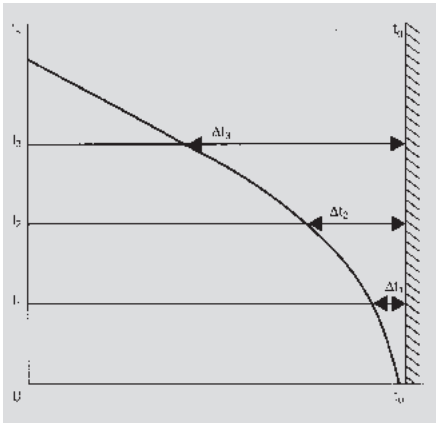
The **derating curve** shows which currents may flow continuously and simultaneously via all possible connections when the component is subjected to various ambient temperatures below its upper limit temperature.

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

The current-carrying capacity is determined empirically according to DIN IEC 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.

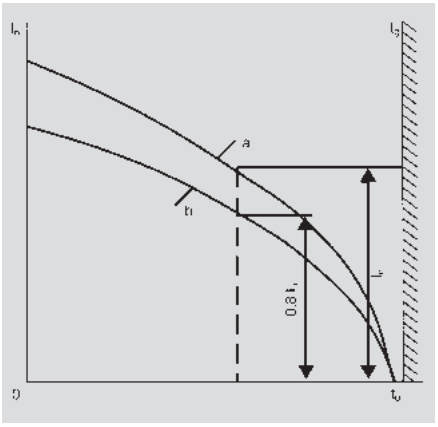
## Base curve

**upper limit temperature of component**



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

## Derating curve



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

**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, $\Delta t_1 = t_{b1} - t_{u1}$, $\Delta_{t2} = t_{b2} - t_{u2}$, ... are plotted for every current $I_1$, $I_2$, ... to the left of the perpendicular line. The points generated in this way are joined to form a roughly parabolic curve.

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

# Electromagnetic compatibility (EMC)

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

### What is meant by the phrase EMC-compliant?

Electro-magnetic compatibility (EMC) refers to the ability of electrical equipment to function satisfactorily in its electromagnetic environment without introducing intolerable electromagnetic disturbances to anything in that environment.
(DIN VDE 0870). An electrical component or electrical equipment is considered to be compatible when their emissions and sensitivity levels are within a tolerable range (i.e., when there is sufficient interference immunity).

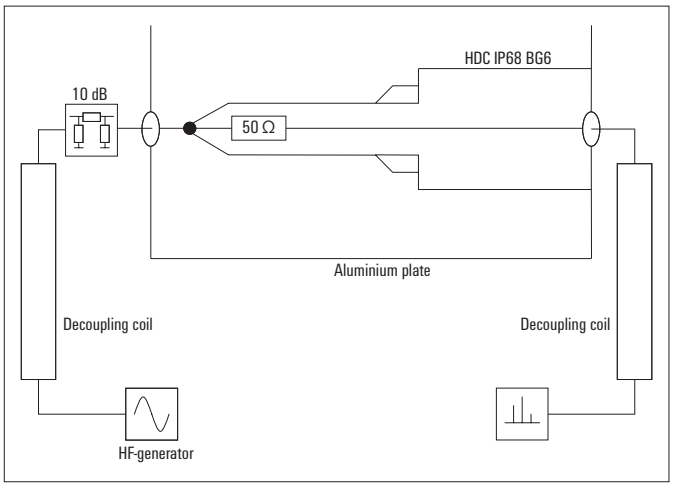
### The basics

There are several types of measurements that can be used to determine the effectiveness of a cable shield. The method used here is the KS 04 B measurement from VG 95 373-41 “Electromagnetic compatibility of devices – methods for measuring shielded cable and shielded protective cable hoses”. This method enables the quality of the shield to be evaluated. It also assesses the influence of the contact points of the shielding braid as well as the male and female plug components.
A standardised test cable with a length of one metre is used. This, and the fact that this measurement is carried out in a 50-ohm system which does not take the actual line impedance into account, leads to characteristic resonance effects. This means that this measurement process only delivers meaningful results up to a frequency of 30 to 100 MHz. It is, however, well suited for evaluating and comparing the effectiveness of various shielding and shield-contacting methods. It does not deliver an absolute value that would enable the limiting of voltages coupled in a cable, using an imposed HF electromagnetic field. The user should always consider the measurement results relative to the laboratory operational situation. Your actual, real-world shield attenuation values will normally be less than the values achieved in the lab because of different cable lengths, impedance behaviour and non-optimal earthing.

### Testing methods

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

The limit value of the shield attenuation Sa is
f < 1 MHz: 60 dB
1 MHz < f < 100 MHz: 60 – 30 dB with15 dB per decreasing decade f = 100 MHz: 30 dB

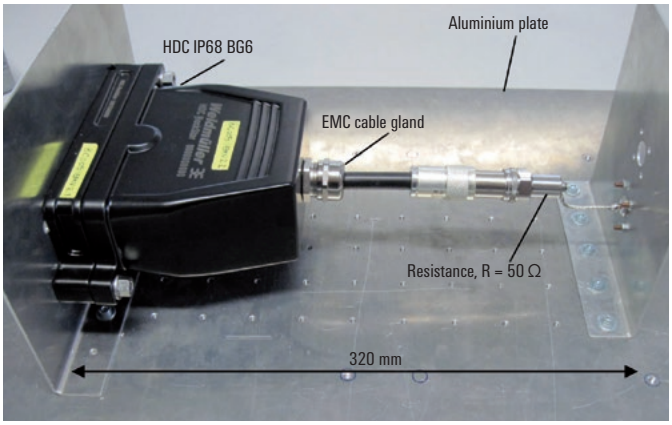



According to VG 95373-41, a frequency range up to 30 MHz is specified for the measurement process. However the range can be extended to about 100 MHz for information purposes.
The insertion loss as of the test object is determined by the relationship between the voltage on the interior wire and the supplied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

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

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

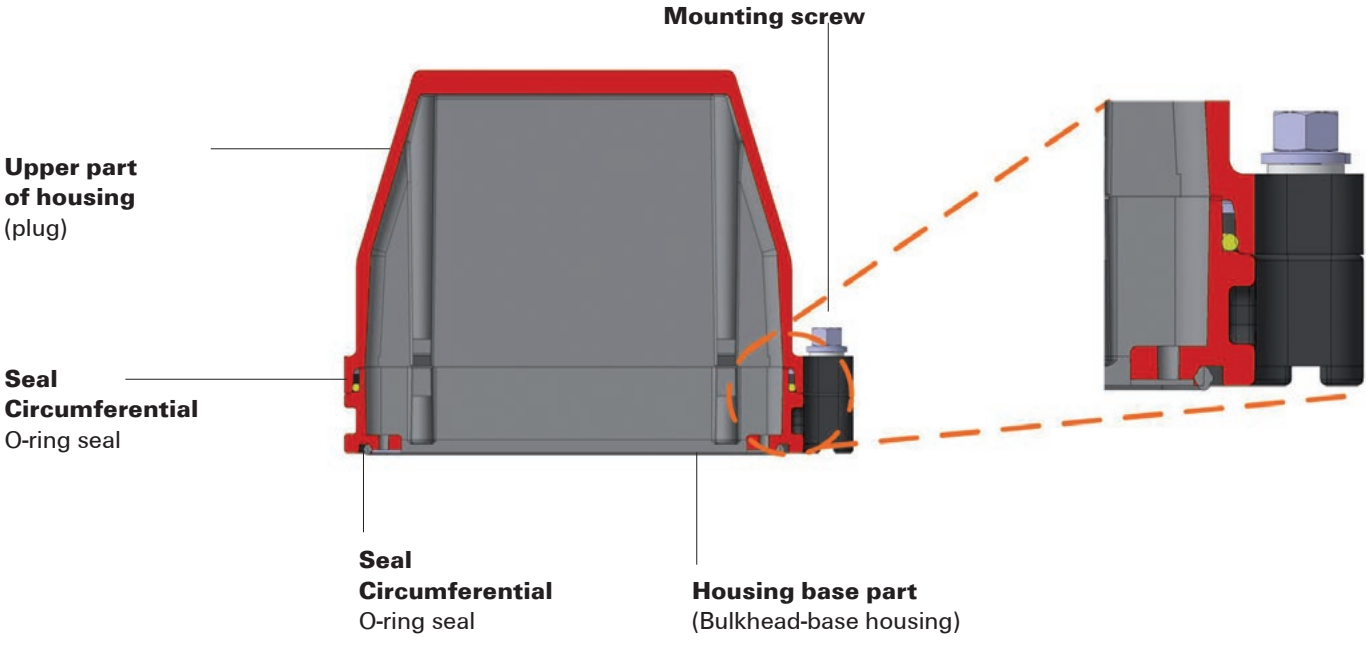
In order to test plug-in connectors, a reference shield cable is used that is separated in the middle. The cable can be connected with a corresponding connector pair and measured as described above. In order to evaluate the shield (the resistance between the cable shield and the reference earth), the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

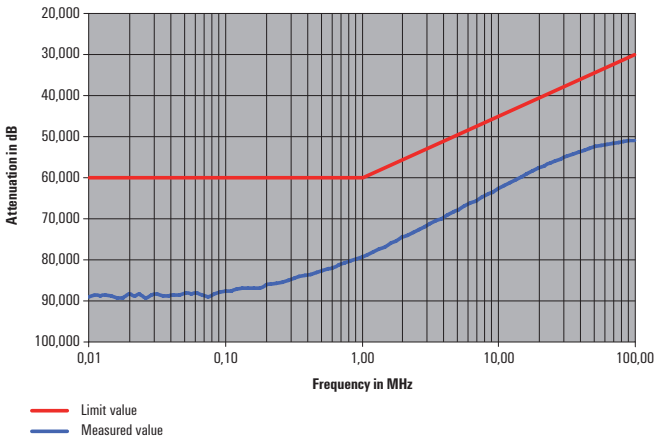
Weidmüller has designed the RockStar® IP68 housing with built-in features that ensure outstanding EMC and resistance to interference.

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.



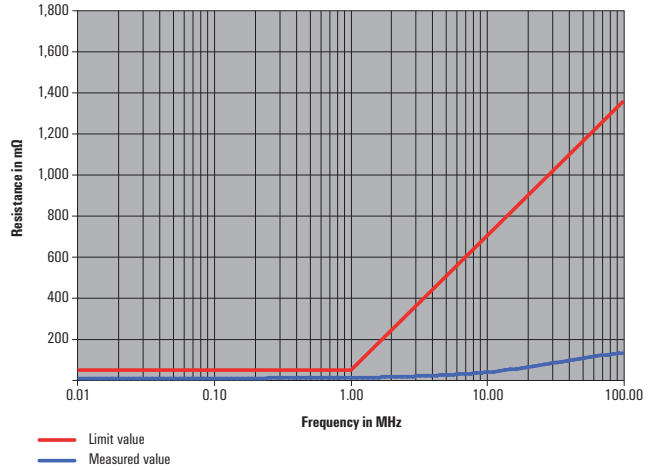
The requirements for an EMC-compliant interface stipulate that the interference immunity level or shield attenuation potential should be rated high enough so that the electromagnetic fields in the vicinity of the transmitted signals cannot exert influence within the connector. The capacity for active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

**Insertion loss**



HDC IP68 16B TSS 1M50

**Coupling impedance**



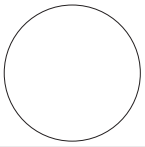
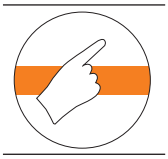
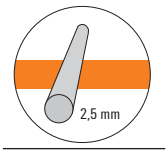
# IP classes of protection to IEC 60529

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

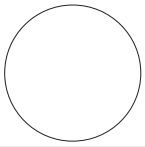
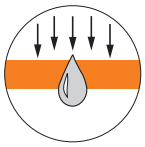
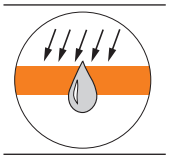
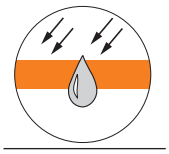
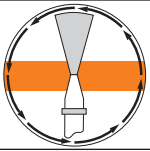
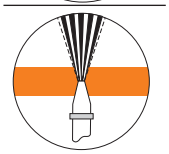
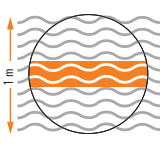
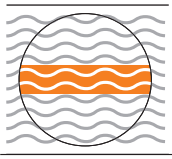
Example: I P 6 5

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

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

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

## Protection against penetration of liquids (2nd digit)

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

# Class of protection to NEMA

## National Electrical Manufacturers Association NEMA 250-1991

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

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

# Chemical resistance

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

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

+ resistant
– partially resistant

### Chemical resistance of standard housing seal (material NBR)

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

+ resistant
– partially resistant
o not resistant

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

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

+ resistant
– partially resistant

### Chemical resistance of silicone seal housing IP68

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

+ resistant
– partially resistant
o not resistant

### Chemical resistance of FKM seal

| | |
|---|---|
| Acetone | o |
| Diesel oil | + |
| Ethyl alcohol | + |
| Hydraulic oil | + |
| Acids | o |
| Benzine | + |
| Water | + |
| UV | + |
| Ozone | + |

+ resistant
o not resistant

# Safety information and standards

**Please note the following safety information:**

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

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

- DIN EN 60664-1 or IEC 60664-1: Insulation coordination for equipment within low-voltage systems; principles, requirements and tests (replaces DIN VDE 0110-1)

- DIN EN 61984 or IEC 61984:
  Plug-in connectors – safety requirements and tests

- DIN EN 175301-801:
  Detail Specification: High-density rectangular plug-in connectors, round removable crimp contacts; (replaces DIN 43652)

- DIN EN 60352 or IEC 60352:
  Solderless connections

- DIN EN 60529 or IEC 60529:
  Classes of protection provided by enclosures (IP code)

- DIN VDE 0870:
  Electromagnetic influence

- DIN EN 60999-1:
  Connecting devices, safety requirements for screw terminal connections and screwless terminal connections for electrical copper conductors

- DIN 40050-9:
  Road vehicles; classes of protection (IP-code)

# RockStar® inserts

**RockStar® inserts**

**Introduction** B.2

**HA series** B.4
250 V
16 A
3 – 48 poles

**HE series** B.18
500 V
24 A
6 – 48 poles

**HEE and HEEE series** B.32
500 V
16 A
10 – 64 poles

**HD series** B.46
250 V
10 A
7 – 128 poles

**HDD series** B.66
250 V
10 A
24 – 216 poles

**HVE series** B.80
830 V
20 A
3 + 2; 6 + 2; 10 + 2 poles

**HSB series** B.88
400 V
35 A
6 – 12 poles

**HQ series** B.94
400 V / 690 V
16 A, 10/40 A
4/2, 5, 7, 8, 12, 17 poles

**MixMate series** B.108
1,000 V / 690 V
100 A
4, 4/0, 4/2, 4/8, 6/6, 6/12, 6/36, 8/0, 8/24, 12/2 poles

# Fixed pole RockStar® inserts
## Flexible. Compact. High performance.

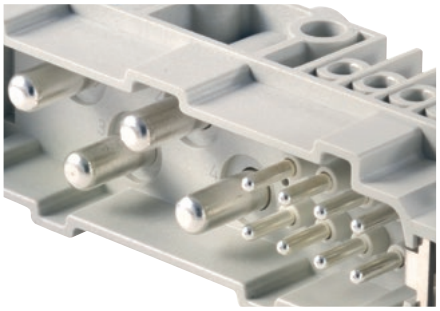
Rely on real RockStars when choosing your connectors. Our broad portfolio of heavy-duty connectors offers the right solution for all requirements for the transmission of energy, signals, and data outside the control cabinet. At the heart of our RockStar® connectors are the inserts. No matter which interface you want to implement, the nine series in up to 12 sizes ensure reliable electrical function.

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

**Fast wiring. But safe.**
Choose from all common connection technologies including the PUSH IN direct plug-in technology and the brand new SNAP IN connection. The SNAP IN principle is particularly easy to use:: The stripped conductor is inserted directly into open connection points and the snap connection snaps into place with a click.

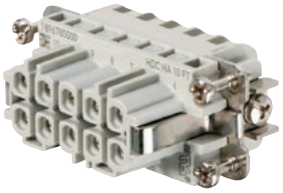
**Consistency**
One plastic material – with all approvals. This expands your range of choices. It also helps you to have simple documentation and reliable planning processes.

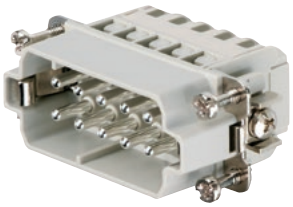
**Suitable**
Always according to your needs: including a space-saving combination of power and signals in one connector.



# HA series

Compact: Our space-saving miracle among the fixed-pole inserts accommodates up to 48 contacts in suitable IP65 housings due to its particularly slim design.





## Technical data

| | |
|---|---|
| **Standards/approvals** | |
| Standards | DIN EN 61984<br>DIN EN 60664-1 |
| Approvals | UL/CSA** |
| **Inserts** | |
| No. of poles | 3, 4, 10, 16, 32, 48 |
| Rated voltage | 250 V (400 V - HA3, HA4) |
| Rated voltage to UL/CSA | 600 V |
| Rated current | 16 A |
| Rated impulse withstand voltage | 4 kV |
| Pollution severity | 3 (320 V / 4 kV / 2) (HA10,16, 32, 48) |
| Insulation resistance | ≥ $10^{10}$ Ω |
| Material | Glass-fibre reinforced PC (in UL list and approved for railway applications) |
| Temperature range | –40 °C to +125 °C |
| Flammability to UL 94 | V-0 |
| Mechanical service life | |
| – Plugging cycles Ag-Surface | ≥ 500 |
| – Plugging cycles Au-Surface | ≥ 500 |
| Contact resistance | |
| Crimp connection | ≤ 2 mΩ |
| 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 mm² (AWG 20 – 14) / 7.5 mm |
| – Screw connection | 0.5 – 2.5 mm² (AWG 20 – 14) / 9 mm*** |
| – Tension clamp connection | 0.25 – 2.5 mm² (AWG 24 – 14) / 8 mm |
| Clamping torque | |
| – Screw connection | 0.5 – 0.55 Nm |
| SD blades | |
| – Screw connection | 0.6 x 3.5 or PZ0 |
| – Tension clamp connection | 0.5 x 3 or 0.6 x 3.5 |
| PE connection | |
| – Clamping range | 0.5 – 2.5 mm² |
| – solid/stranded | 0.5 – 2.5 mm² / 0.5 – 2.5 mm² |
| – flexible/flexible with wire end ferrule, DIN 46228 pt. 1 | 0.5 – 2.5 mm² / 0.5 – 2.5 mm² |
| – AWG conductor | AWG 20 – 14 |
| – Stripping length | 10 mm |
| – Clamping torque | 1.2 – 1.5 Nm |
| – Blade dimensions | SD 0.8 x 4 mm or PZ1 |

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

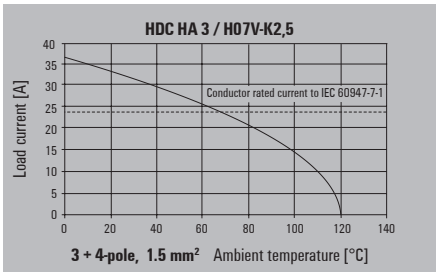
* Crimping with flexible conductors
** For screw and crimp connections
*** Stripping length of 15 mm for the 3- and 4-pole HA

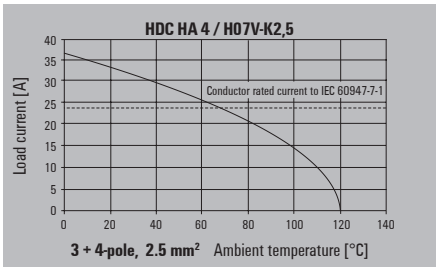
## Overview

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

## 400 V, 16A, size 1

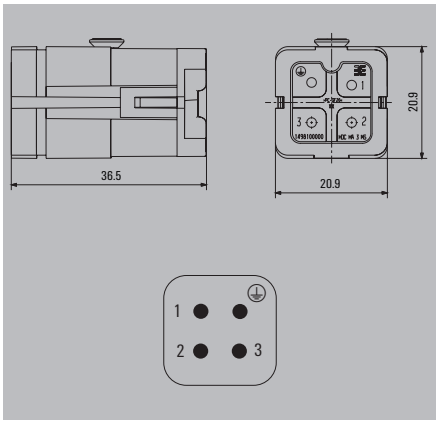
3 + ⏚




### Installation cut-out

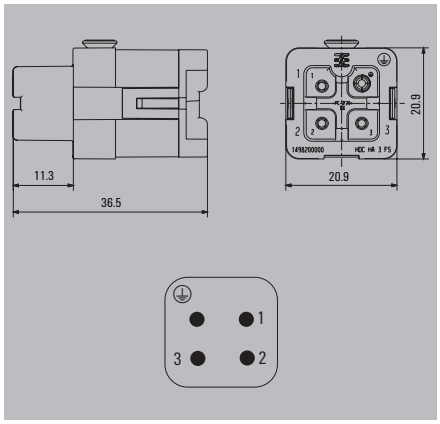
### Male




### Ordering data

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

### Female




### Ordering data

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

## Housing selection RockStar® IP65
## Size 1

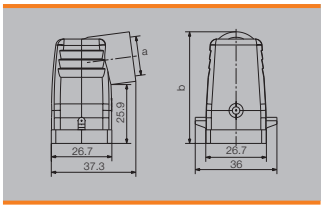
For additional housings, refer to
Chapter D for IP65 / Chapter F for IP68 EMC

## Hood

### Plug housing, cable entry sideways

**Material:** diecast aluminium

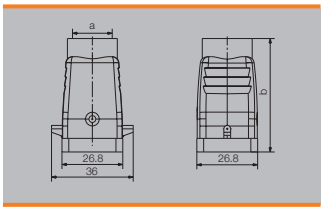
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 20 | w. threading | | 49.2 | HDC 04A TWLU 1M20G | 1788810000 |




### 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 |

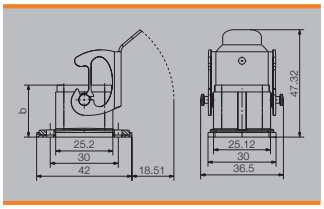



## Base

### Bulkhead housing

**Material:** diecast aluminium

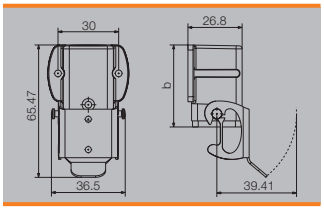
| | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| | | | 23 | HDC 04A ALU | 1497600000 |




### Base housing

**Material:** diecast aluminium

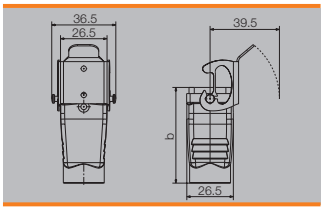
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 20 | w. threading | | 41.5 | HDC 04A SLU 1M20G | 1788830000 |




### Coupling housing

**Material:** diecast aluminium

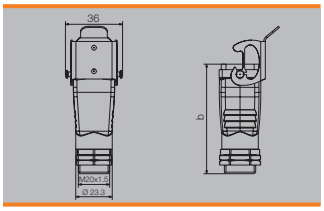
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 20 | w. threading | | 53.5 | HDC 04A KOLU 1M20G | 1788840000 |




### Screw mounting housing

**Material:** diecast aluminium

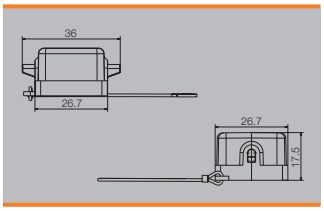
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 20 | w. threading | | 54 | HDC 04A ELU 1M20G | 1900320000 |




### Cover

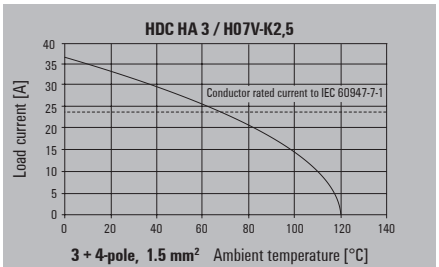
**Material:** diecast aluminium

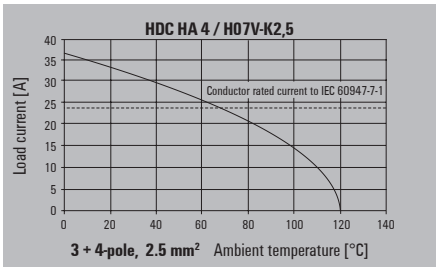
| Version | Type | Order No. |
|---|---|---|
| with female | HDC 04A DMDL 2BO | 1665750000 |
| with male | HDC 04A DODL 2BO | 1665740000 |



## 400 V, 16A, size 1

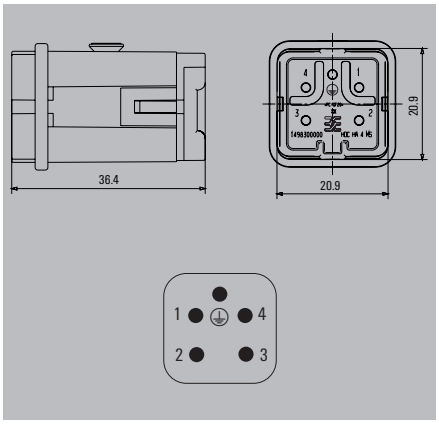
4 + ⏚




### Installation cut-out

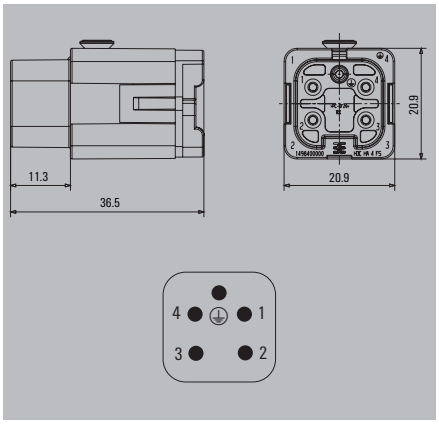
### Male




### Ordering data

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

### Female




### Ordering data

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

## Housing selection RockStar® IP65
## Size 1

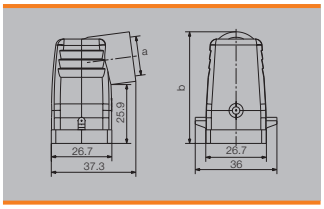
**For additional housings, refer to**
**Chapter D for IP65 / Chapter F for IP68 EMC**

## Hood

### Plug housing, cable entry sideways

**Material:** diecast aluminium

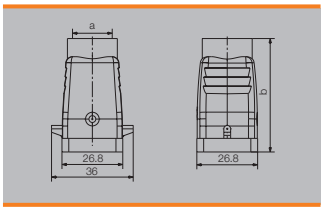
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 20 | w. threading | | 49.2 | HDC 04A TWLU 1M20G | 1788810000 |




### 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 |

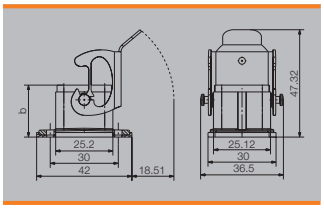



## Base

### Bulkhead housing

**Material:** diecast aluminium

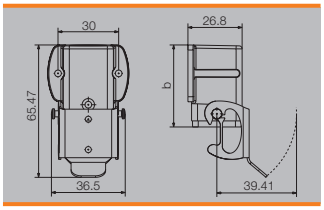
| | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| | | | 23 | HDC 04A ALU | 1497600000 |




### Base housing

**Material:** diecast aluminium

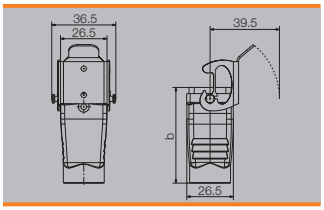
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 20 | w. threading | | 41.5 | HDC 04A SLU 1M20G | 1788830000 |




### Coupling housing

**Material:** diecast aluminium

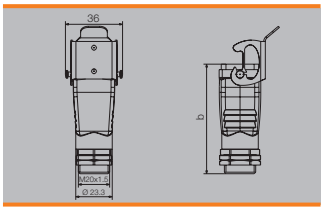
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 20 | w. threading | | 53.5 | HDC 04A KOLU 1M20G | 1788840000 |




### Screw mounting housing

**Material:** diecast aluminium

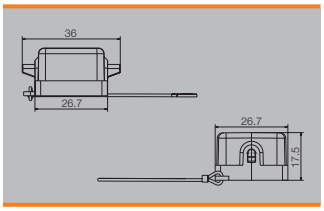
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 20 | w. threading | | 54 | HDC 04A ELU 1M20G | 1900320000 |




### Cover

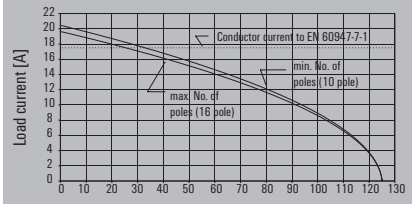
**Material:** diecast aluminium

| Version | Type | Order No. |
|---|---|---|
| with female | HDC 04A DMDL 2BO | 1665750000 |
| with male | HDC 04A DODL 2BO | 1665740000 |

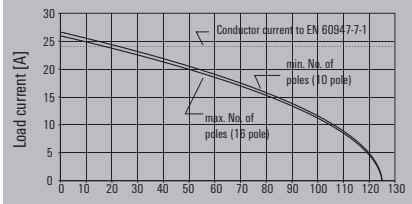


## 250 V, 16 A, size 2

**10 + ⏚**

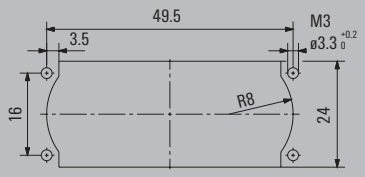



**10...48-pole, 1.5 mm²** Ambient temperature [°C]

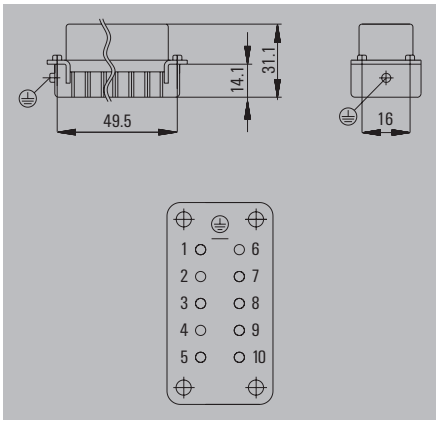



**10...48-pole, 2.5 mm²** Ambient temperature [°C]

### Installation cut-out




## Male



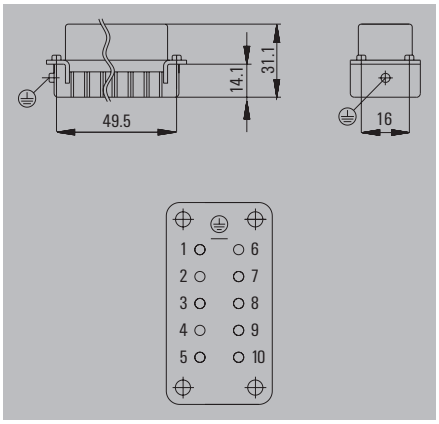

### Ordering data

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

### Accessories

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

## Female




### Ordering data

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

### Accessories

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

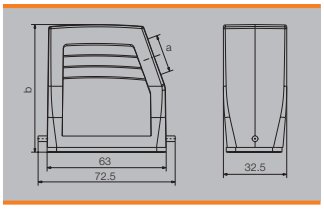
## Housing selection RockStar® IP65
## Size 2

For additional housings, refer to chapter D for IP65

## Hood

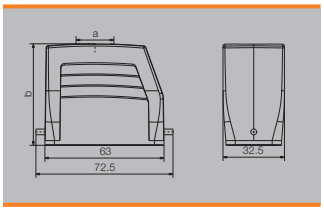
### Plug housing, cable entry sideways

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



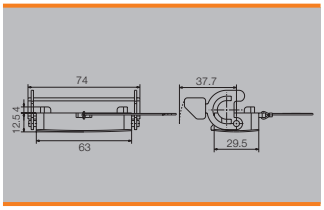

### Plug housing, cable entry at top

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




### Cover

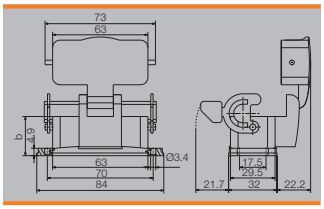
| Version | Type | Order No. |
|---|---|---|
| For hoods | HDC 10A DODL 1LB | 1665890000 |




## Base

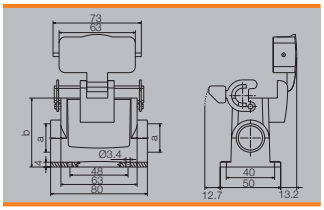
### Bulkhead housing

| | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| | | without cover | 25 | HDC 10A ALU | 1664040000 |
| | | with cover | 37.5 | HDC 10A ADLU | 1664060000 |



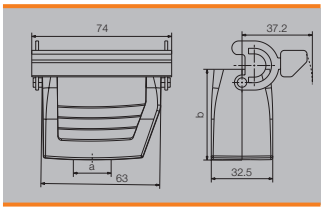

### Base housing

| 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 |



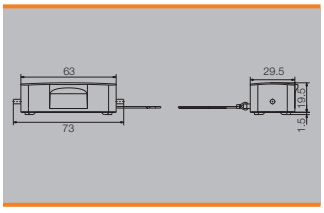

### Coupling housing

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



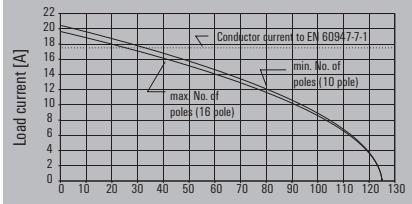

### Cover

| Version | Type | Order No. |
|---|---|---|
| For bases | HDC 10A DMDL 2BO | 1665880000 |

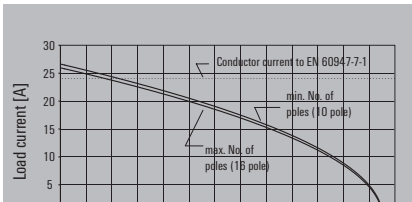


## 250 V, 16 A, size 5

16 + ⏚

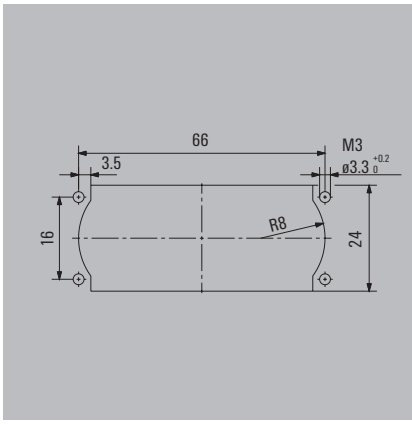



**10...48-pole, 1.5 mm²** Ambient temperature [°C]

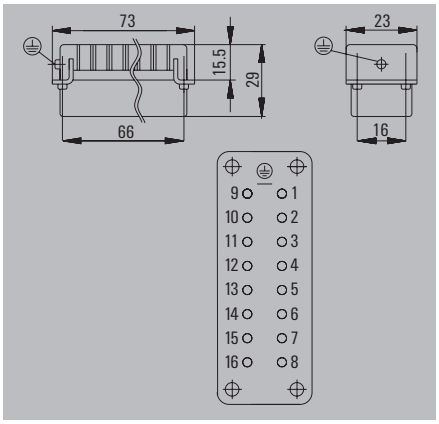



**10...48-pole, 2.5 mm²** Ambient temperature [°C]

### Installation cut-out




## Male



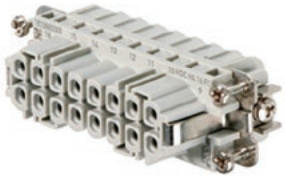

### Ordering data

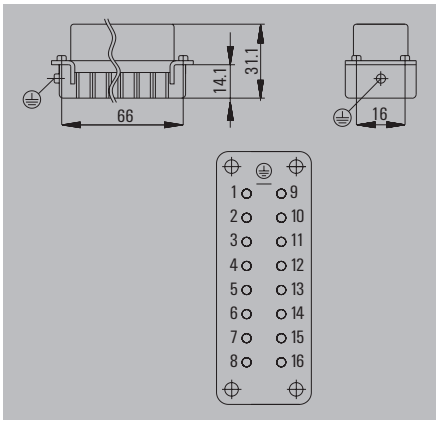
| Type of connection | Type | Qty. | Order No. |
|---|---|---|---|
| Tension-clamp conn. | HDC HA 16 MT | 1 | **1896830000** |
| Screw connection | HDC HA 16 MS | 1 | **1650770000** |
| Crimp connection | HDC HA 16 MC | 1 | **1873890000** |

### Accessories

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

## Female






### Ordering data

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

### Accessories

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

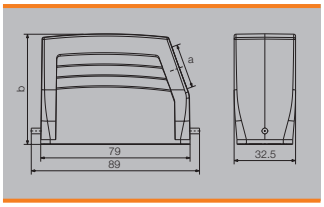
## Housing selection RockStar® IP65
## Size 5

For additional housings, refer to chapter D for IP65

## Hood

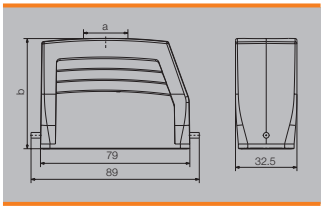
### Plug housing, cable entry sideways

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



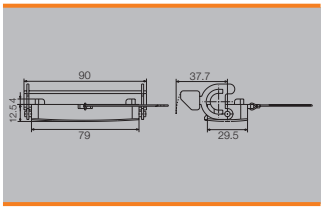

### Plug housing, cable entry at top

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




### Cover

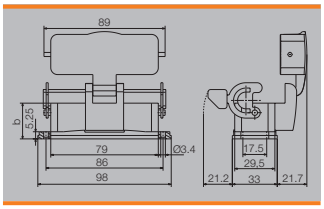
| Version | Type | Order No. |
|---|---|---|
| For hoods | HDC 16A DODL 1LB | 1665900000 |




## Base

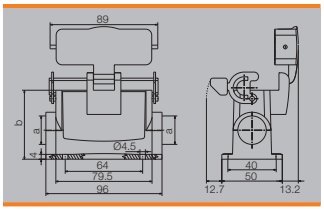
### Bulkhead housing

| | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| | | without cover | 26.25 | HDC 16A ALU | 1664920000 |
| | | with cover | 26.25 | HDC 16A ADLU | 1664940000 |



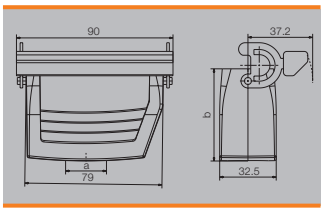

### Base housing

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



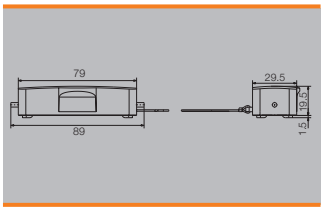

### Coupling housing

| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 25 | w. threading | | 52.62 | HDC 16A KLU 1M25G | 1788800000 |



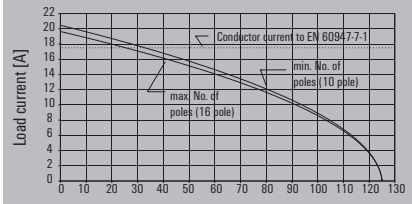

### Cover

| Version | Type | Order No. |
|---|---|---|
| For bases | HDC 16A DMDL 2BO | 1665910000 |

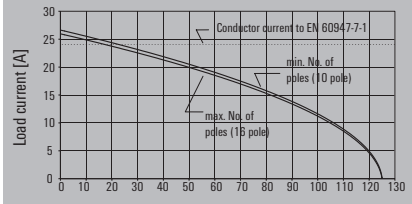


## 250 V, 16 A, size 7

32 + ⏚

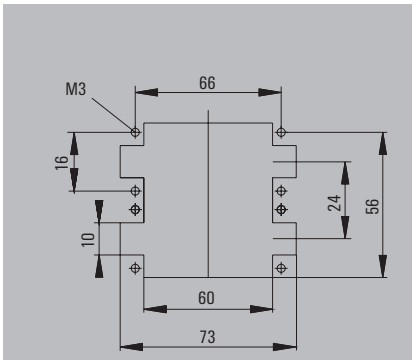



**10...48-pole, 1.5 mm²** Ambient temperature [°C]

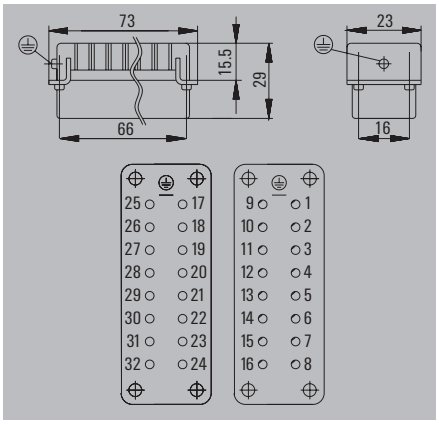



**10...48-pole, 2.5 mm²** Ambient temperature [°C]

### Installation cut-out




## Male



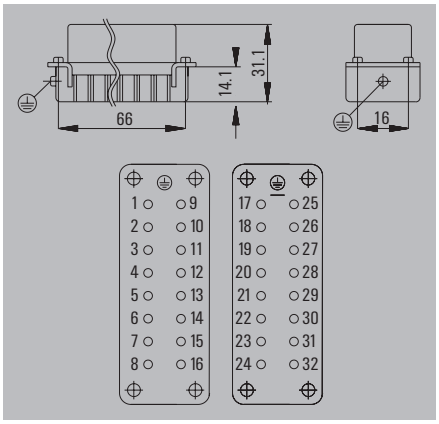

### Ordering data

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

### Accessories

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

## Female




### Ordering data

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

### Accessories

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

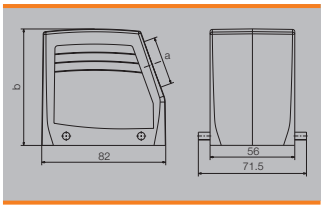
## Housing selection RockStar® IP65
## Size 7

For additional housings, refer to chapter D for IP65

## Hood

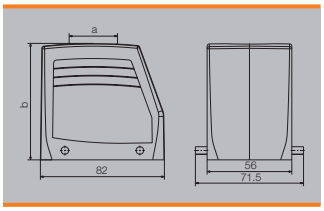
### Plug housing, cable entry sideways

| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 25 | w. threading | | 77 | HDC 32A TSBU 1M25G | 1787960000 |
| M 32 | w. threading | | 77 | HDC 32A TSBU 1M32G | 1787950000 |




### Plug housing, cable entry at top

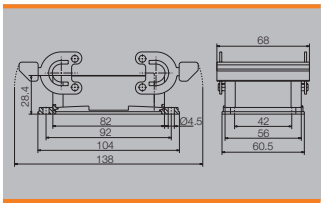
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 32 | w. threading | | 77 | HDC 32A TOBU 1M32G | 1787990000 |




## Base

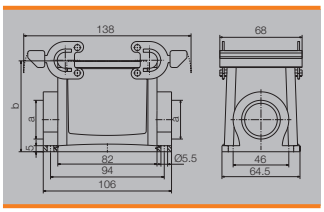
### Bulkhead housing

| | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| | | | 30 | HDC 32A ABU | 1665860000 |



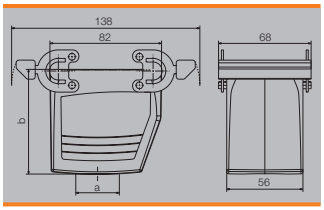

### Base housing

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

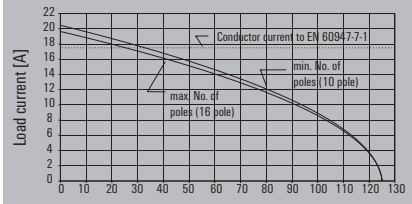



### Coupling housing

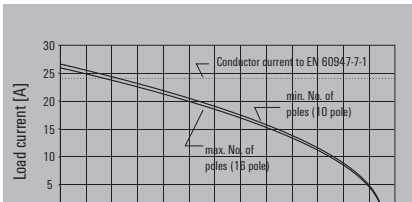
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 25 | w. threading | | 77 | HDC 32A KBU 1M25G | 1788080000 |
| M 32 | w. threading | | 77 | HDC 32A KBU 1M32G | 1788070000 |



## 250 V, 16 A, size 9
## 48 + ⏚

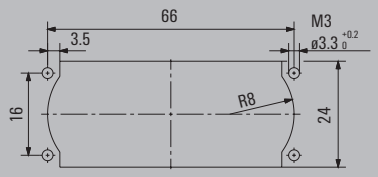



**10...48-pole, 1.5 mm²** Ambient temperature [°C]

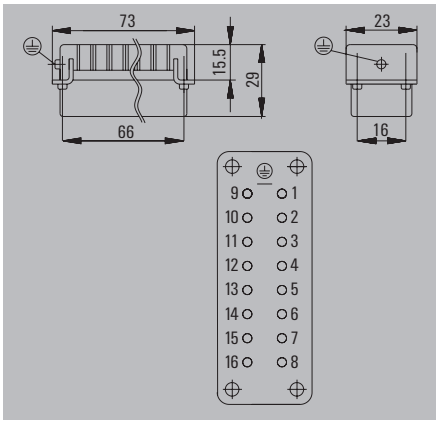



**10...48-pole, 2.5 mm²** Ambient temperature [°C]

### Installation cut-out




### Male



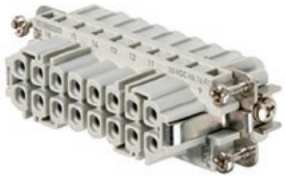

### Ordering data

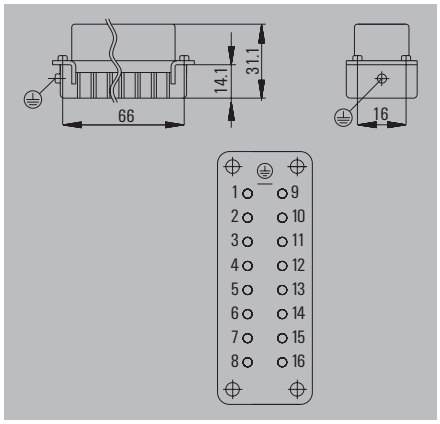
| Type of connection | Type | Qty. | Order No. |
|---|---|---|---|
| Tension-clamp conn. | HDC HA 16 MT | 1 | 1896830000 |
| Tension-clamp conn. | HDC HA 16 MT 17-32 | 1 | 1896840000 |
| Tension-clamp conn. | HDC HA 16 MT 33-48 | 1 | 1896850000 |
| Screw connection | HDC HA 16 MS | 1 | 1650770000 |
|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

### Accessories

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

### Female






### Ordering data

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

### Accessories

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

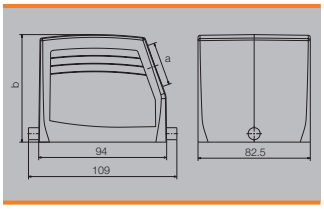
## Housing selection RockStar® IP65
## Size 9

For additional housings, refer to chapter D for IP65

## Hood

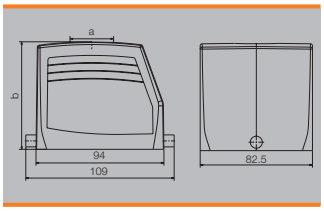
### Plug housing, cable entry sideways

| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 32 | w. threading | | 78 | HDC 48A TSLU 1M32G | 1788550000 |




### Plug housing, cable entry at top

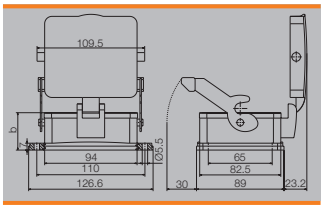
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 32 | w. threading | | 78 | HDC 48A TOLU 1M32G | 1788560000 |




## Base

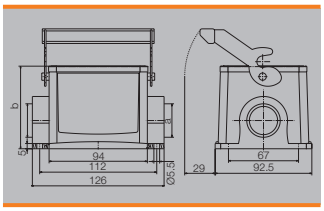
### Bulkhead housing

| | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| | | without cover | 40 | HDC 48A ALU | 1666740000 |
| | | with cover | 40 | HDC 48A ADLU | 1666750000 |



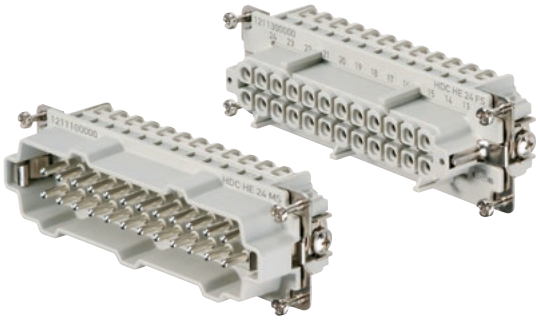

### Base housing

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



# HE series

Powerful and convenient: HE/HEE inserts enable efficient signal transmission of up to 48 contacts at maximum 16 A and 500 V. They are also now available with the innovative SNAP IN connector.



## Technical data

| | |
|---|---|
| **Standards/approvals** | |
| Standards | DIN EN 61984<br>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 | ≥ $10^{10}$ Ω |
| Material | Glass-fibre reinforced PC (in UL list and approved for railway applications) |
| Temperature range | -40 °C to +125 °C |
| Flammability to UL 94 | V-0 |
| Mechanical service life | |
| – Plugging cycles Ag-Surface | ≥ 500 |
| – Plugging cycles Au-Surface | ≥ 500 |
| Contact resistance | ≤ 2 mΩ |
| **Contacts/Material** | |
| Contacts | Copper alloy |
| Surface | Passivated silver, or gold-plated |
| Clamping range/Stripping length | |
| – Crimp connection | |
| – stranded/flexible | 0.5 – 4.0 mm² / 0.5 – 4.0 mm² (AWG 20 – 12) / 7.5 mm |
| – Screw connection | |
| – solid/stranded | 0.5 – 2.5 mm² / 0.5 – 2.5 mm² (AWG 20 – 14) / 9 mm |
| – flexible/flexible with wire end ferrule | 0.5 – 2.5 mm² / 0.5 – 2.5 mm² (AWG 20 – 14) / 9 mm |
| – Tension clamp connection | |
| – solid/stranded | 0.25...2.5 mm² / (AWG 24...14 ) / 8 mm |
| – flexible/flexible with wire end ferrule | 0.25...2.5 mm² / (AWG 24...14 ) / 8 mm |
| – PUSH IN | |
| – solid | 0.5...4 mm² (AWG 20...12 ) / 10 mm |
| – flexible with wire end ferrule without collar | 0.5...2.5 mm² (AWG 20...14 ) / 12 mm |
| – SnapIn | |
| – flexible/stranded | 1...2.5 mm² (AWG 20...16) / 10 |
| – flexible with wire end ferrule | 1...2.5 mm² (AWG 20...16) / 10 |
| Clamping torque | |
| – Screw connection | 0.5 – 0.55 Nm |
| SD blades | |
| – Screw connection | 0.6 x 3.5 oder PZ0 |
| – PUSH IN | 0.4 x 2.5 |
| – Tension clamp connection | 0.5 x 3 oder 0.6 x 3.5 |
| – SnapIn | 0.6 x 3.5 |

**Note:**

* 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 mm² |
| – solid/stranded | 0.5 – 4 mm² / 0.5 – 4 mm² |
| – flexible/flexible with wire end ferrule, DIN 46228 pt. 1 | 0.5 – 4 mm² / 0.5 – 4 mm² |
| – AWG conductor | AWG 20 – 12 |
| – Stripping length | 10 mm |
| – Clamping torque | 1.2 – 1.5 Nm |
| – Blade dimensions | SD 0.8 x 4 mm or PZ1 |

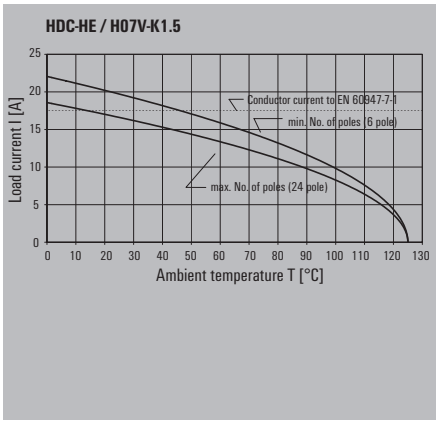
**Note:**
When used properly and as designated, the listed connectors may not be connected or disconnected if there is a live voltage or load!
Inserts with PUSH IN connection can be connected to the H07V-U4 conductor.

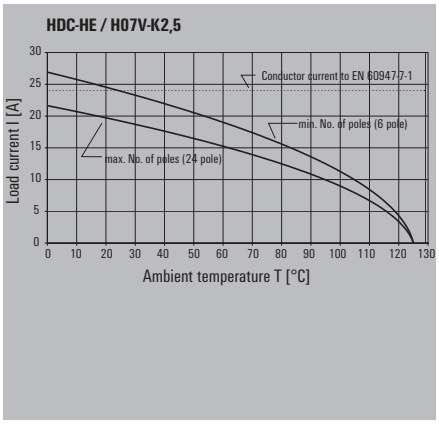
## Overview

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

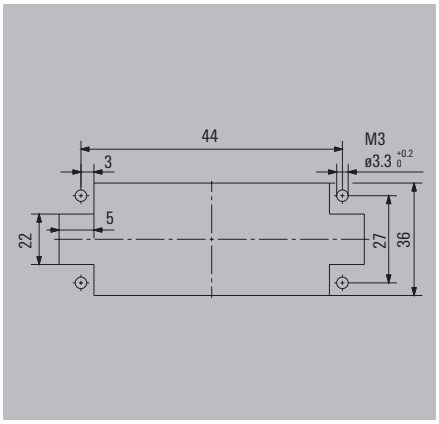
## 500 V, 24 A, size 3

6 + ⏚

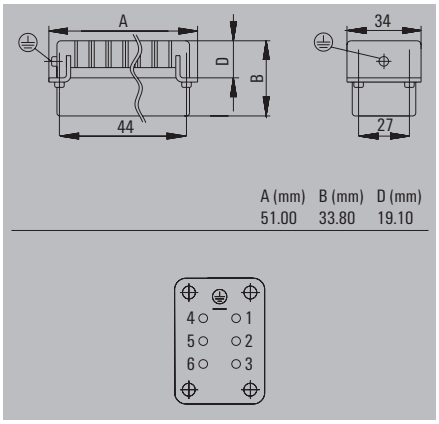



### Installation cut-out




## Male




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

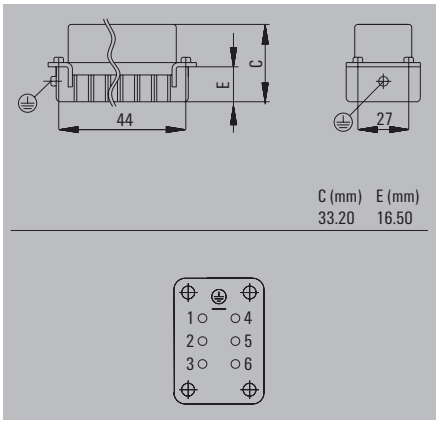
### Ordering data

| Type of connection | Type | Qty. | Order No. |
|---|---|---|---|
| Tension-clamp conn. | HDC HE 6 MT | 1 | 1745820000 |
| Screw connection | HDC HE 6 MS | 1 | 1200000000 |
| PUSH IN | HDC HE 6 MP | 1 | 1873530000 |
| Crimp connection | HDC HE 6 MC | 1 | 1200400000 |
| SNAP IN | HDC HE 6 MQT | | 2666910000 |

### Accessories

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

## Female




| C (mm) | E (mm) |
|---|---|
| 33.20 | 16.50 |

### Ordering data

| Type of connection | Type | Qty. | Order No. |
|---|---|---|---|
| Tension-clamp conn. | HDC HE 6 FT | 1 | 1745760000 |
| Screw connection | HDC HE 6 FS | 1 | 1200200000 |
| PUSH IN | HDC HE 6 FP | 1 | 1873520000 |
| Crimp connection | HDC HE 6 FC | 1 | 1201000000 |
| SNAP IN | HDC HE 06 FQT | | 2666920000 |

### Accessories

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

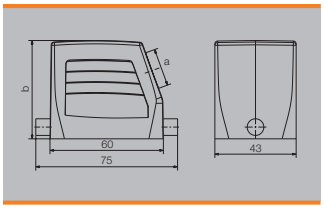
## Housing selection RockStar® IP65
## Size 3

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

## Hood

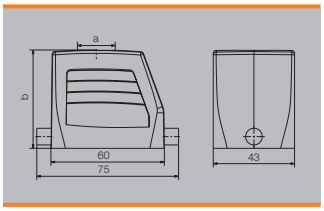
### Plug housing, cable entry sideways

| 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

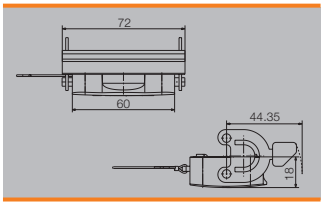
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 20 | w. threading | | 52 | HDC 06B TOLU 1M20G | 1788120000 |
| M 25 | w. threading | | 52 | HDC 06B TOLU 1M25G | 1788110000 |
| M 25 | w. threading | | 72 | HDC 16D TOLU 1M25G | 1787500000 |
| M 32 | w. threading | | 72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




### Cover

| Version | Type | Order No. |
|---|---|---|
| For hoods | HDC 06B DMDL 1LB | 1665210000 |
| For hoods | HDC 06B DMDL 1LB N | 2559730000 |

**Note** Note: N = Plastic locking lever with stainless steel inlay

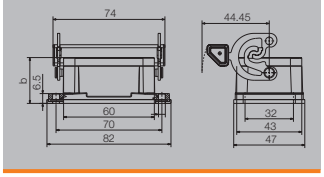



## Base

### Bulkhead housing

| | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| | | without cover | 29.3 | HDC 06B ALU | 1202100000 |
| | | | 29.3 | HDC 06B ALU N | 2488560000 |
| | | with cover | 29.3 | HDC 06B ADLU | 1202500000 |
| | | with cover | 29.3 | HDC 06B ADLU N | 2559320000 |

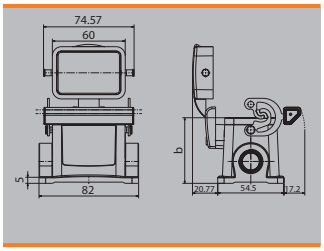
**Note** Note: N = Plastic locking lever with stainless steel inlay




### Base housing

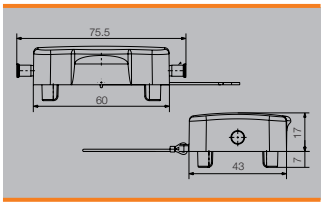
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 20 | w. threading | | | HDC 06B SLU 1M20G N | 2637080000 |
| M 20 | w. threading | with cover | 54 | HDC 06B SDLU 1M20G N | 2560720000 |
| M 20 | w. threading | | 54 | HDC 06B SLU 2M20G | 1788140000 |
| M 20 | w. threading | with cover | 54 | HDC 06B SDLU 2M20G | 1788170000 |
| M 25 | w. threading | | 54 | HDC 06B SLU 2M25G | 1788130000 |
| M 25 | w. threading | without cover | 54 | HDC 06B SLU 2M25G N | 2560860000 |
| M 25 | w. threading | with cover | 54 | HDC 06B SDLU 2M25G | 1788160000 |
| M 25 | w. threading | with cover | 54 | HDC 06B SDLU 2M25G N | 2560830000 |

**Note** Note: N = Plastic locking lever with stainless steel inlay



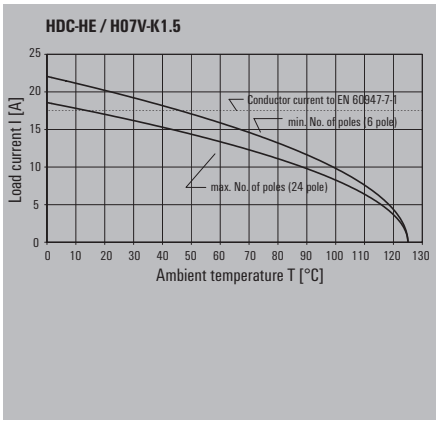

### Cover

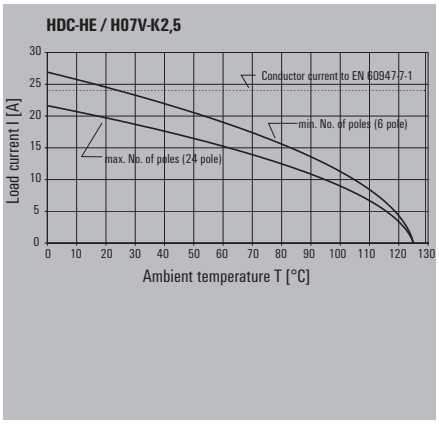
| Version | Type | Order No. |
|---|---|---|
| For bases | HDC 06B DODL 2BO | 1665200000 |



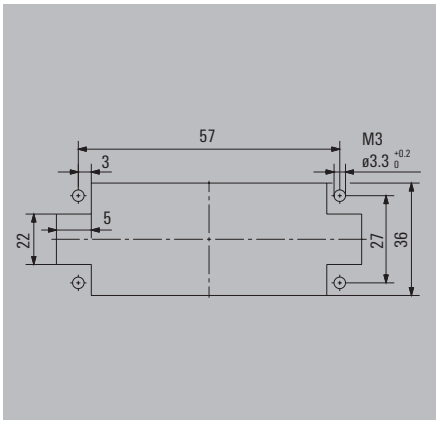
## 500 V, 16 A, size 4

10 + ⏚

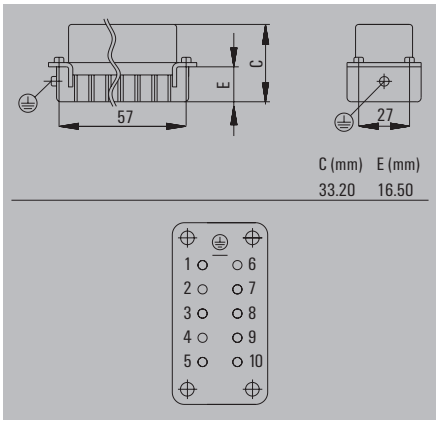



### Installation cut-out




## Male



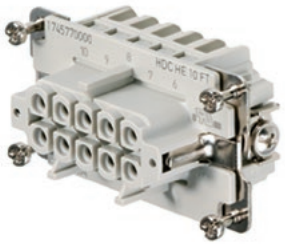

### Ordering data

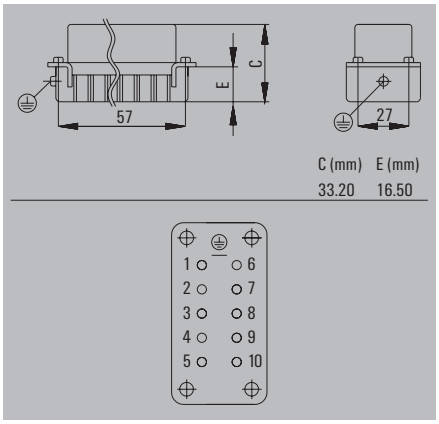
| Type of connection | Type | Qty. | Order No. |
|---|---|---|---|
| Tension-clamp conn. | HDC HE 10 MT | 1 | 1745830000 |
| Screw connection | HDC HE 10 MS | 1 | 1203900000 |
| PUSH IN | HDC HE 10 MP | 1 | 1873550000 |
| Crimp connection | HDC HE 10 MC | 1 | 1204300000 |
| SNAP IN | HDC HE 10 MQT | | 2666940000 |

### Accessories

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

## Female






### Ordering data

| Type of connection | Type | Qty. | Order No. |
|---|---|---|---|
| Tension-clamp conn. | HDC HE 10 FT | 1 | 1745770000 |
| Screw connection | HDC HE 10 FS | 1 | 1204100000 |
| PUSH IN | HDC HE 10 FP | 1 | 1873540000 |
| Crimp connection | HDC HE 10 FC | 1 | 1204400000 |
| SNAP IN | HDC HE 10 FQT | | 2666930000 |

### Accessories

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

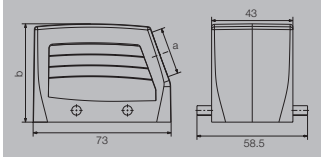
## Housing selection RockStar® IP65
## Size 4

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

## Hood

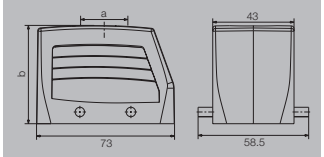
### Plug housing, cable entry sideways

| 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

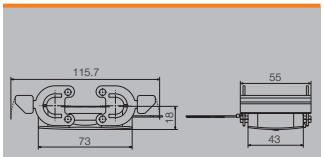
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 20 | w. threading | | 52 | HDC 10B TOBU 1M20G | 1787600000 |
| M 25 | w. threading | | 52 | HDC 10B TOBU 1M25G | 1787590000 |
| M 25 | w. threading | | 72 | HDC 24D TOBU 1M25G | 1787300000 |
| M 32 | w. threading | | 72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




### Cover

| Version | Type | Order No. |
|---|---|---|
| For hoods | HDC 10B DMDQ 2QB | 1665240000 |
| For hoods | HDC 10B DMDQ 2QB N | 2559740000 |

**Note** Note: N = Plastic locking lever with stainless steel inlay

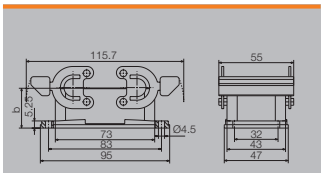



## Base

### Bulkhead housing

| | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| | | | 29.5 | HDC 10B ABU | 1205000000 |
| | | | 29.5 | HDC 10B ABU N | 2488580000 |

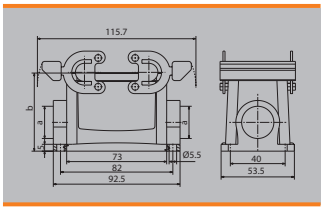
**Note** Note: N = Plastic locking lever with stainless steel inlay




### Base housing

| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 20 | w. threading | | 57 | HDC 10B SBU 1M20G N | 2560880000 |
| M 20 | w. threading | | 57 | HDC 10B SBU 2M20G | 1787640000 |
| M 20 | w. threading | | 57 | HDC 10B SBU 2M20G N | 2560890000 |
| M 25 | w. threading | | 57 | HDC 10B SBU 1M25G N | 2560900000 |
| M 25 | w. threading | | 57 | HDC 10B SBU 2M25G | 1787630000 |
| M 25 | w. threading | | 57 | HDC 10B SBU 2M25G N | 2560910000 |

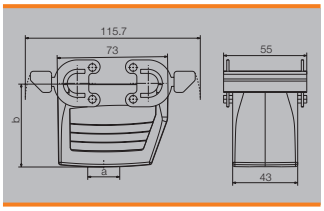
**Note** Note: N = Plastic locking lever with stainless steel inlay




### Coupling housing

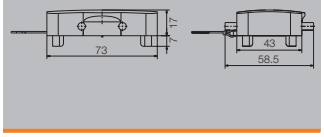
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 20 | w. threading | | 54.65 | HDC 10B KBU 1M20G | 1787720000 |
| M 20 | w. threading | | 54.65 | HDC 10B KBU 1M20G N | 2559860000 |

**Note** Note: N = Plastic locking lever with stainless steel inlay



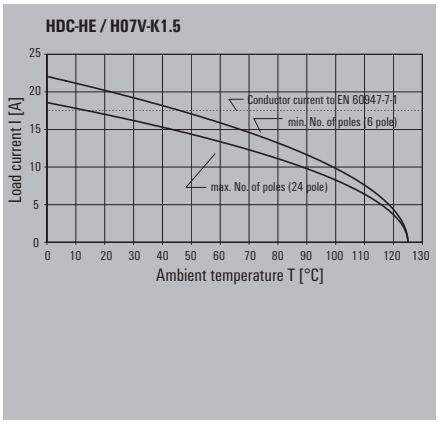

### Cover

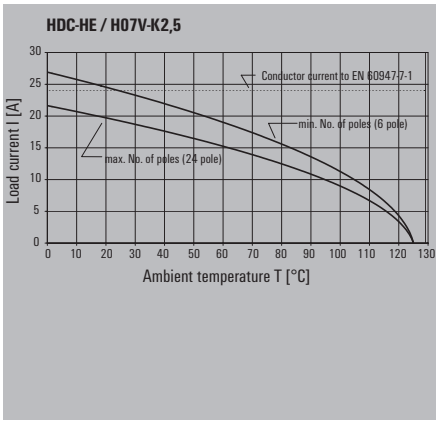
| Version | Type | Order No. |
|---|---|---|
| For bases | HDC 10B DODQ 4BO | 1665230000 |



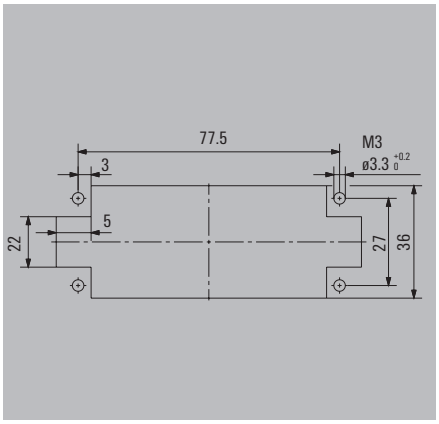
## 500 V, 16 A, size 6

16 + ⏚

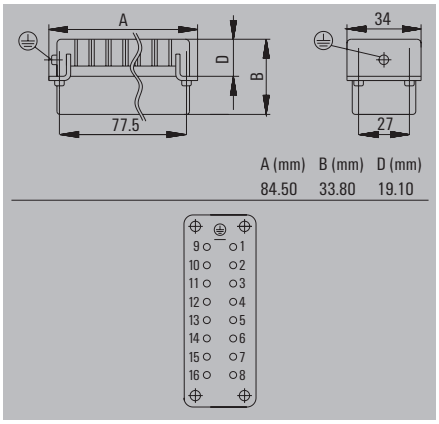



### Installation cut-out




### Male




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

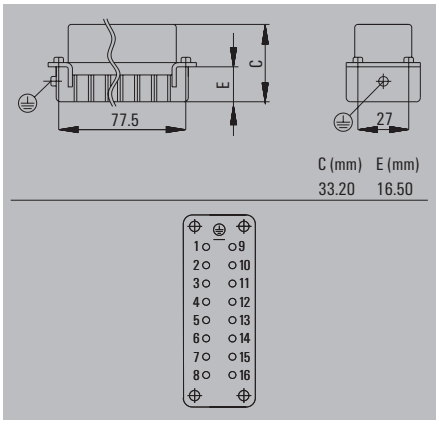
### Ordering data

| Type of connection | Type | Qty. | Order No. |
|---|---|---|---|
| Tension-clamp conn. | HDC HE 16 MT | 1 | 1745840000 |
| Screw connection | HDC HE 16 MS | 1 | 1207500000 |
| PUSH IN | HDC HE 16 MP | 1 | 1873570000 |
| Crimp connection | HDC HE 16 MC | 1 | 1207900000 |
| SNAP IN | HDC HE 16 MQT | | 2666970000 |

### Accessories

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

### Female




| C (mm) | E (mm) |
|---|---|
| 33.20 | 16.50 |

### Ordering data

| Type of connection | Type | Qty. | Order No. |
|---|---|---|---|
| Tension-clamp conn. | HDC HE 16 FT | 1 | 1745780000 |
| Screw connection | HDC HE 16 FS | 1 | 1207700000 |
| PUSH IN | HDC HE 16 FP | 1 | 1873560000 |
| Crimp connection | HDC HE 16 FC | 1 | 1208000000 |
| SNAP IN | HDC HE 16 FQT | | 2666950000 |

### Accessories

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

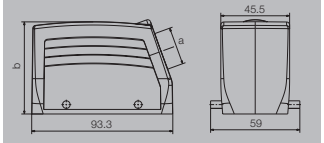
## Housing selection RockStar® IP65
## Size 6

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

## Hood

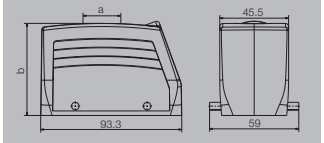
### Plug housing, cable entry sideways

| 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 |



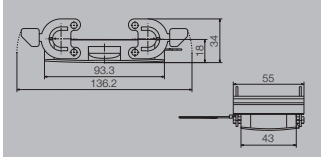

### Plug housing, cable entry at top

| 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 |

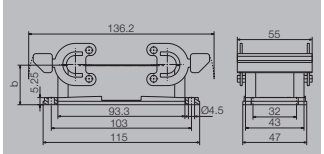



## Base

### Bulkhead housing

| | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| | | | 29 | HDC 16B ABU | 1208600000 |
| | | | 29 | HDC 16B ABU N | 2488590000 |

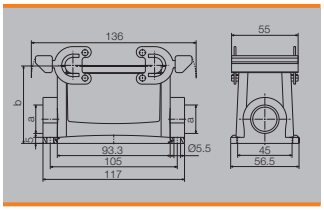
**Note** Note: N = Plastic locking lever with stainless steel inlay




### Base housing

| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 25 | w. threading | | 64 | HDC 16B SBU 1M25G N | 2560740000 |
| M 25 | w. threading | | 64 | HDC 16B SBU 2M25G | 1788240000 |
| M 25 | w. threading | | 64 | HDC 16B SBU 2M25G N | 2560930000 |
| M 25 | w. threading | | 84 | HDC 40D SBU 2M25G | 1787120000 |
| PG 21 | w. threading | | 84 | HDC 40D SBU 1M32G N | 2561030000 |
| M 32 | w. threading | | 84 | HDC 40D SBU 2M32G | 1787110000 |

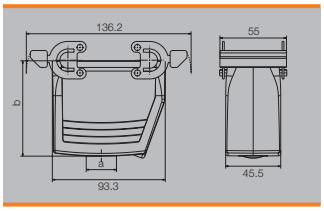
**Note** Note: N = Plastic locking lever with stainless steel inlay




### Coupling housing

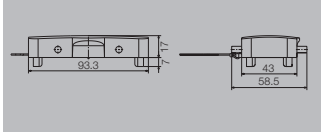
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 25 | w. threading | | 78.6 | HDC 40D KBU 1M25G | 1787200000 |
| PG 29 | w. threading | | 79 | HDC 40D KBU 1M25G N | 2559890000 |
| M 32 | w. threading | | 78.6 | HDC 40D KBU 1M32G | 1787190000 |
| PG 29 | w. threading | | 79 | HDC 40D KBU 1M32G N | 2559900000 |
| PG 29 | w. threading | | 79 | HDC 40D KBU 2M32G N | 2545510000 |

**Note** Note: N = Plastic locking lever with stainless steel inlay



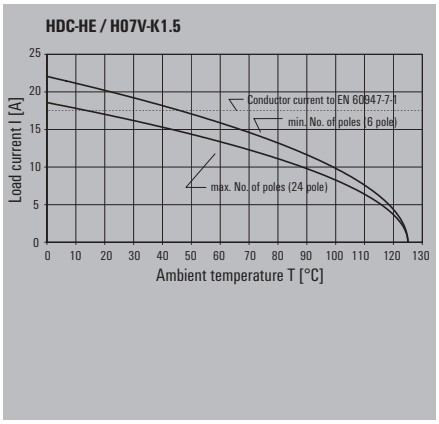

### Cover

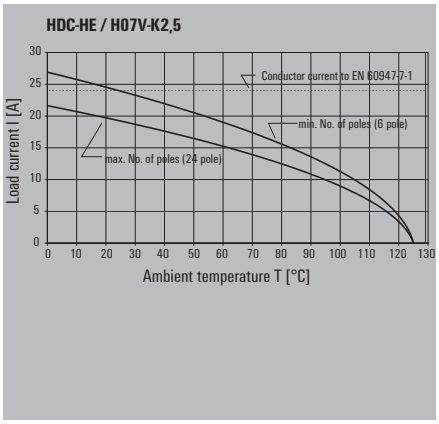
| Version | Type | Order No. |
|---|---|---|
| For bases | HDC 16B DODQ 4BO | 1665260000 |



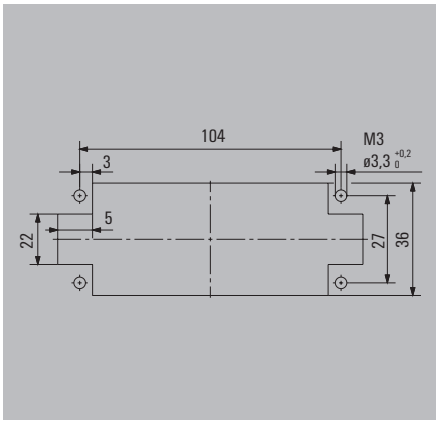
## 500 V, 16 A, size 8

24 + ⏚

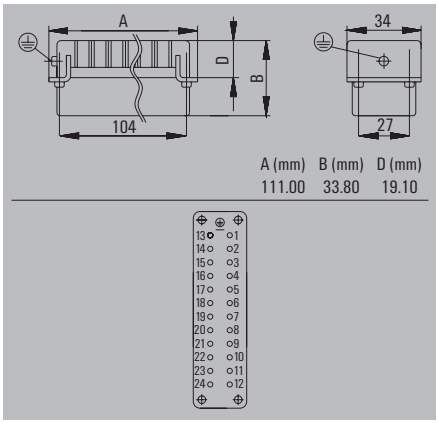



### Installation cut-out




## Male




| A (mm) | B (mm) | D (mm) |
|---|---|---|
| 111.00 | 33.80 | 19.10 |

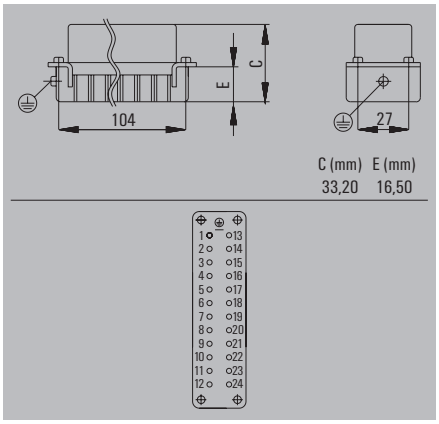
### Ordering data

| Type of connection | Type | Qty. | Order No. |
|---|---|---|---|
| Tension-clamp conn. | HDC HE 24 MT | 1 | 1745850000 |
| Screw connection | HDC HE 24 MS | 1 | 1211100000 |
| PUSH IN | HDC HE 24 MP | 1 | 1873590000 |
| Crimp connection | HDC HE 24 MC | 1 | 1211500000 |
| SNAP IN | HDC HE 24 MQT | | 2667010000 |

### Accessories

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

## Female




| C (mm) | E (mm) |
|---|---|
| 33,20 | 16,50 |

### Ordering data

| Type of connection | Type | Qty. | Order No. |
|---|---|---|---|
| Tension-clamp conn. | HDC HE 24 FT | 1 | 1745790000 |
| Screw connection | HDC HE 24 FS | 1 | 1211300000 |
| PUSH IN | HDC HE 24 FP | 1 | 1873580000 |
| Crimp connection | HDC HE 24 FC | 1 | 1211600000 |
| SNAP IN | HDC HE 24 FQT | | 2666990000 |

### Accessories

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

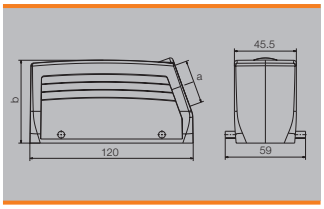
## Housing selection RockStar® IP65
## Size 8

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

## Hood

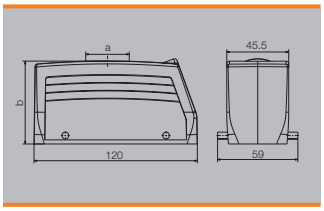
### Plug housing, cable entry sideways

| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 25 | w. threading | | 62.58 | HDC 24B TSBU 1M25G | 1787760000 |
| M 25 | w. threading | | 76 | HDC 64D TSBU 1M25G | 1786780000 |
| M 32 | w. threading | | 62.58 | HDC 24B TSBU 1M32G | 1787750000 |
| M 32 | w. threading | | 76 | HDC 64D TSBU 1M32G | 1786770000 |




### Plug housing, cable entry at top

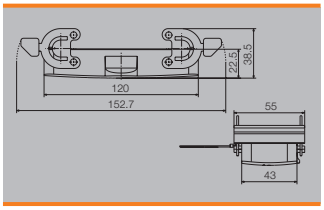
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 25 | w. threading | | 62.58 | HDC 24B TOBU 1M25G | 1787820000 |
| M 32 | w. threading | | 62.58 | HDC 24B TOBU 1M32G | 1787810000 |
| M 32 | w. threading | | 76 | HDC 64D TOBU 1M32G | 1786830000 |




### Cover

| Version | Type | Order No. |
|---|---|---|
| For hoods | HDC 24B DMDQ 2QB | 1665640000 |
| For hoods | HDC 24B DMDQ 2QB N | 2559760000 |

**Note** Note: N = Plastic locking lever with stainless steel inlay

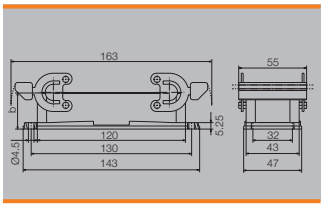



## Base

### Bulkhead housing

| | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| | | | 29.5 | HDC 24B ABU | 1212400000 |
| | | | 29.5 | HDC 24B ABU N | 2488600000 |

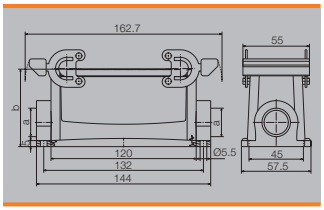
**Note** Note: N = Plastic locking lever with stainless steel inlay




### Base housing

| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 25 | w. threading | | 64 | HDC 24B SBU 2M25G | 1787870000 |
| M 25 | w. threading | | 64 | HDC 24B SBU 2M25G N | 2560970000 |
| M 25 | w. threading | | 84 | HDC 64D SBU 2M25G | 1786890000 |
| M 32 | w. threading | | 84 | HDC 64D SBU 2M25G N | 2561060000 |
| M 32 | w. threading | | 84 | HDC 64D SBU 1M32G N | 2561050000 |
| M 32 | w. threading | | 84 | HDC 64D SBU 2M32G | 1786880000 |

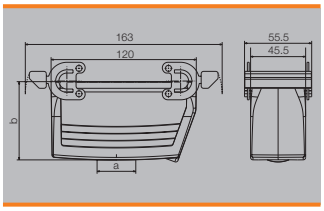
**Note** Note: N = Plastic locking lever with stainless steel inlay




### Coupling housing

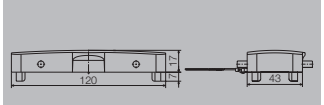
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 25 | w. threading | | 65 | HDC 24B KBU 1M25G | 1787920000 |
| M 25 | w. threading | | 65 | HDC 24B KBU 1M25G N | 2559870000 |
| M 32 | w. threading | | 65 | HDC 24B KBU 2M32G N | 2559880000 |
| M 32 | w. threading | | 79 | HDC 64D KBU 1M32G | 1786960000 |
| M 32 | w. threading | | 79 | HDC 64D KBU 1M32G N | 2559910000 |

**Note** Note: N = Plastic locking lever with stainless steel inlay



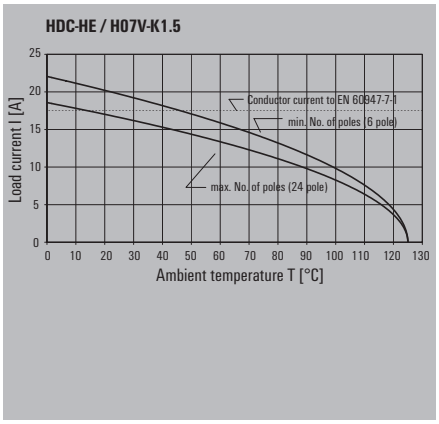

### Cover

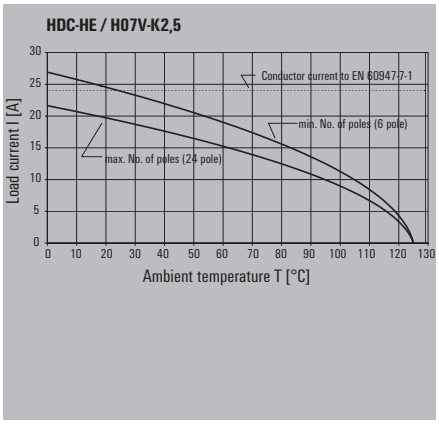
| Version | Type | Order No. |
|---|---|---|
| For bases | HDC 24B DODQ 4BO | 1665630000 |



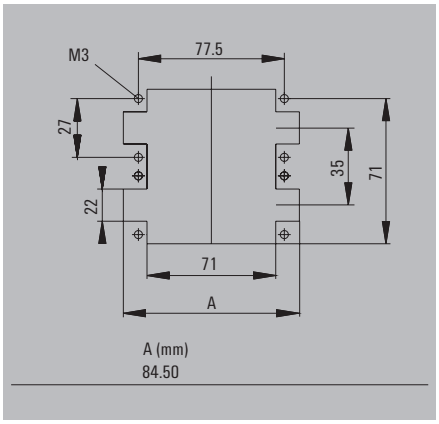
## 500 V, 16 A, size 10

32 + ⏚

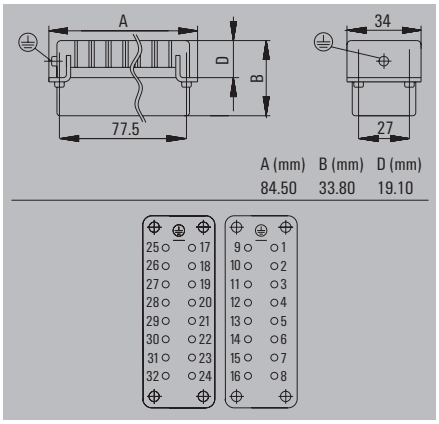



### Installation cut-out




### Male



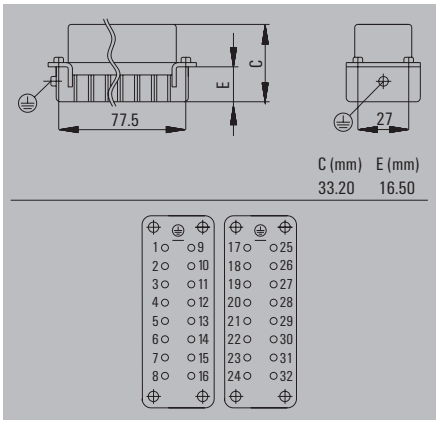

### Ordering data

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

### Accessories

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

### Female




### Ordering data

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

### Accessories

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

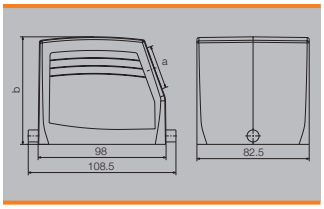
## Housing selection RockStar® IP65
## Size 10

For additional housings, refer to chapter D for IP65

## Hood

### Plug housing, cable entry sideways

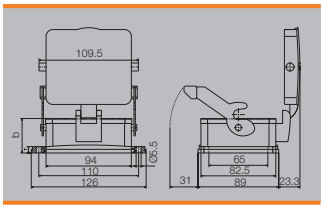
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 32 | w. threading | | 79 | HDC 32B TSLU 1M32G | 1788420000 |




## Base

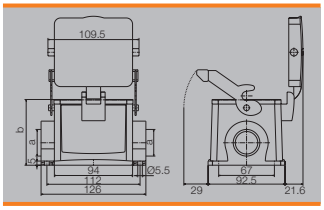
### Bulkhead housing

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



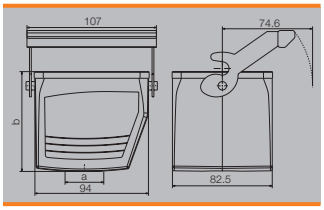

### Base housing

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



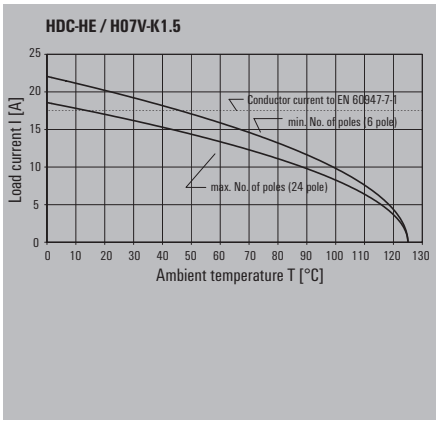

### Coupling housing

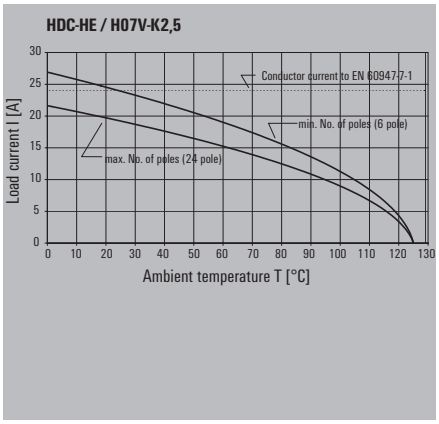
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 32 | w. threading | | 83 | HDC 32B KLU 1M32G | 1788500000 |



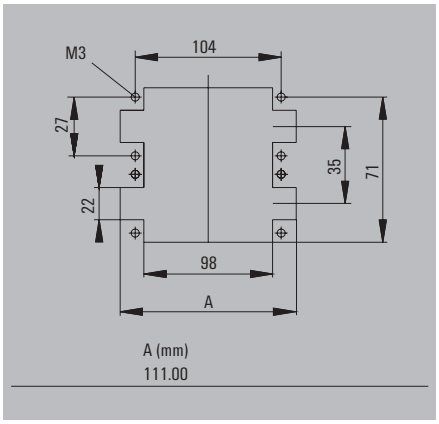
## 500 V, 16 A, size 12

48 + ⏚



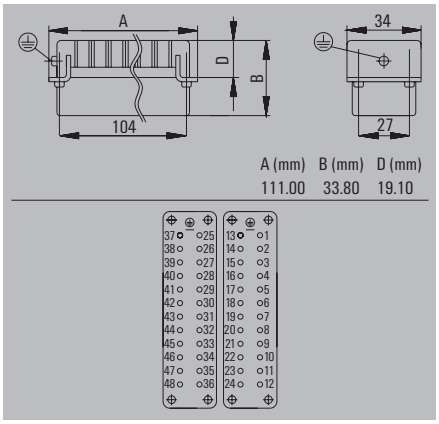




### Installation cut-out




| A (mm) |
|---|
| 111.00 |

## Male




| A (mm) | B (mm) | D (mm) |
|---|---|---|
| 111.00 | 33.80 | 19.10 |



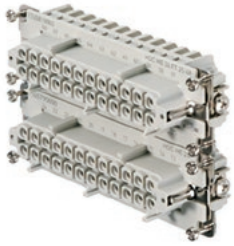
### Ordering data

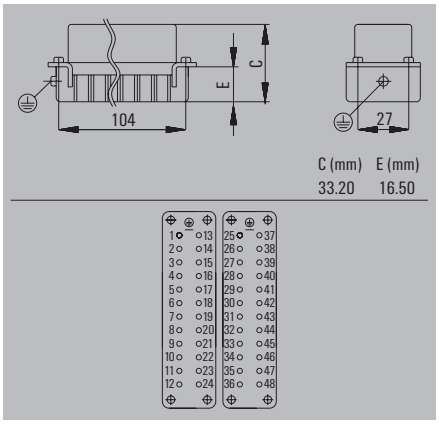
| Type of connection | Type | Qty. | Order No. |
|---|---|---|---|
| Tension-clamp conn. | HDC HE 24 MT | 1 | 1745850000 |
| Screw connection | HDC HE 24 MS | 1 | 1211100000 |
| PUSH IN | HDC HE 24 MP | 1 | 1873590000 |
| Crimp connection | HDC HE 24 MC | 1 | 1211500000 |
| Tension-clamp conn. | HDC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

### Accessories

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

## Female






| C (mm) | E (mm) |
|---|---|
| 33.20 | 16.50 |



### Ordering data

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

### Accessories

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

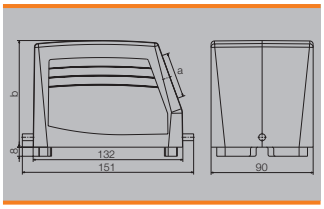
## Housing selection RockStar® IP65
## Size 12

For additional housings, refer to chapter D for IP65

### Hood

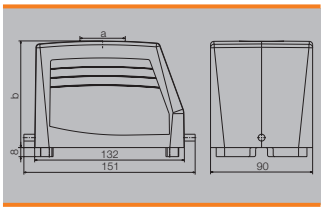
#### Plug housing, cable entry sideways

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




#### Plug housing, cable entry at top

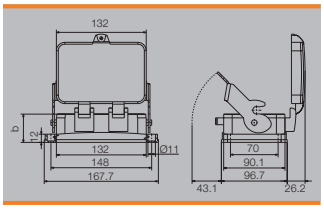
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 32 | w. threading | | 94 | HDC 48B TOLU 1M32G | 1788350000 |
| M 50 | w. threading | | 94 | HDC 48B TOLU 1M50G | 1788330000 |




### Base

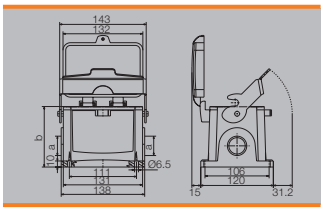
#### Bulkhead housing

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



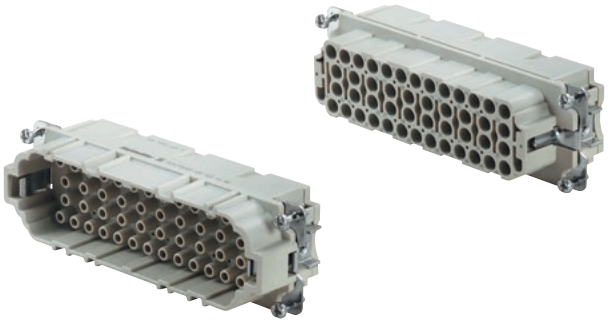

#### Base housing

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



# HEE series

Powerful and convenient: HE/HEE inserts enable efficient signal transmission of up to 64 contacts at maximum 16 A and 500 V



## Technical data

| | |
|---|---|
| **Standards/approvals** | |
| Standards | DIN EN 61984<br>DIN EN 60664-1 |
| Approvals | UL/CSA |
| **Inserts** | |
| No. of poles | 10, 18, 32, 46, 64 (+ PE) |
| Rated voltage | 500 V |
| Rated voltage to UL/CSA | 600 V |
| Rated current | 16 A |
| Rated impulse withstand voltage | 6 kV |
| Pollution severity | 3 (630 V / 6 kV / 2) |
| Insulation resistance | ≥ $10^{10}$ Ω |
| Material | Glass-fibre reinforced PC (in UL list and approved for railway applications) |
| Temperature range | -40 °C to +125 °C |
| Flammability to UL 94 | V – 0 |
| Mechanical service life | |
| – Plugging cycles Ag-Surface | ≥ 500 |
| – Plugging cycles Au-Surface | ≥ 500 |
| Contact resistance | |
| Crimp connection | ≤ 2 mΩ |
| **Contacts/Material** | |
| Contacts | Copper alloy |
| Surface | Passivated silver, or gold-plated |
| Crimp connection | |
| – Flexible conductor connection | 0.5 – 4 mm² (AWG 20 – 12) |
| – Stripping length | 7.5 mm |
| PE connection | |
| – Clamping range | 0.5 – 4 mm² |
| – solid/stranded | 0.5 – 4 mm² / 0.5 – 4 mm² |
| – flexible/flexible with wire end ferrule, DIN 46228 pt. 1 | 0.5 – 4 mm² / 0.5 – 4 mm² |
| – AWG conductor | AWG 20 – 12 |
| – Stripping length | 10 mm |
| – Clamping torque | 1.2 – 1.5 Nm |
| – Blade dimensions | SD 0.8 x 4 mm or PZ1 |

**Note:**

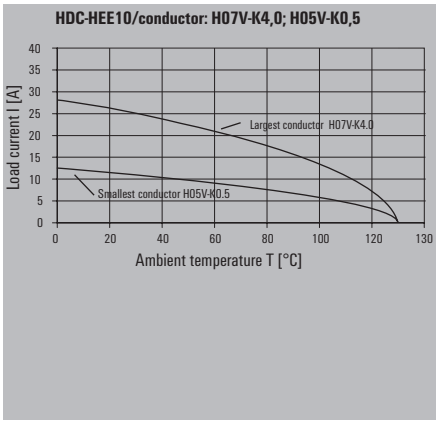
When used properly and as designated, the listed connectors may not be connected or disconnected if there is a live voltage or load!

## Overview

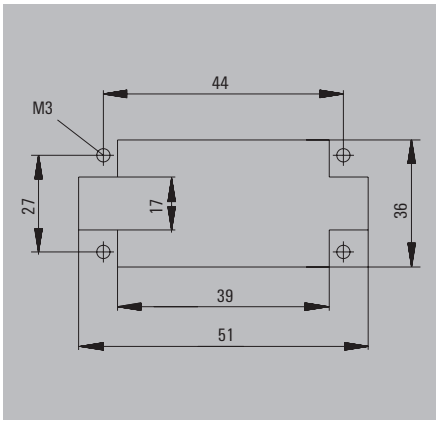
| | | Size | Rated voltage | Rated current | No. of poles | Tension clamp connection | TOP connection | Screw conn. with wire guard spring | Crimp connection | PUSH IN connection | Page |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 3 | 500 V | 16 A | 10 + ⏚ | | | | • | | B.34 |
| | | 4 |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

## 500 V, 16 A, size 3

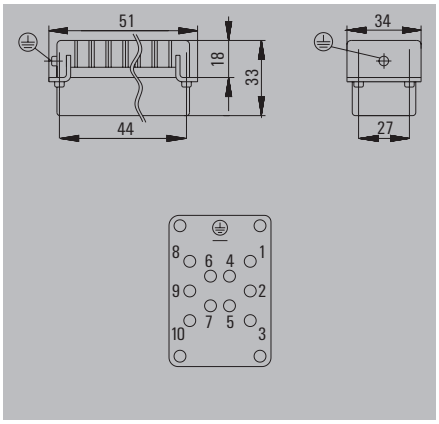
10 + ⏚




### Installation cut-out




## Male



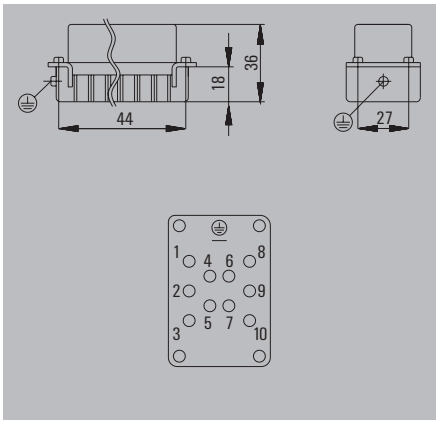

### Ordering data

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

### Accessories

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

## Female




### Ordering data

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

### Accessories

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

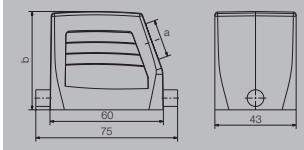
## Housing selection RockStar® IP65
## Size 3

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

## Hood

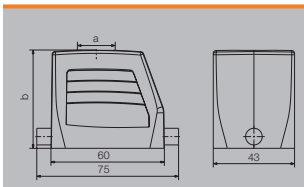
### Plug housing, cable entry sideways

| 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

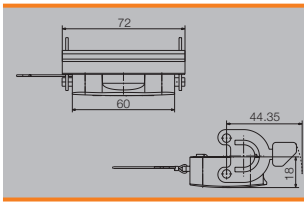
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 20 | w. threading | | 52 | HDC 06B TOLU 1M20G | 1788120000 |
| M 25 | w. threading | | 52 | HDC 06B TOLU 1M25G | 1788110000 |
| M 25 | w. threading | | 72 | HDC 16D TOLU 1M25G | 1787500000 |
| M 32 | w. threading | | 72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




### Cover

| Version | Type | Order No. |
|---|---|---|
| For hoods | HDC 06B DMDL 1LB | 1665210000 |
| For hoods | HDC 06B DMDL 1LB N | 2559730000 |

**Note** Note: N = Plastic locking lever with stainless steel inlay

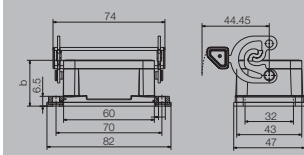



## Base

### Bulkhead housing

| | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| | | without cover | 29.3 | HDC 06B ALU | 1202100000 |
| | | | 29.3 | HDC 06B ALU N | 2488560000 |
| | | with cover | 29.3 | HDC 06B ADLU | 1202500000 |
| | | with cover | 29.3 | HDC 06B ADLU N | 2559320000 |

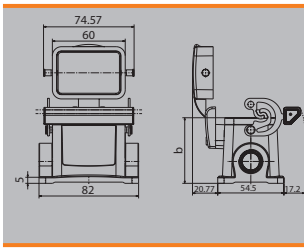
**Note** Note: N = Plastic locking lever with stainless steel inlay




### Base housing

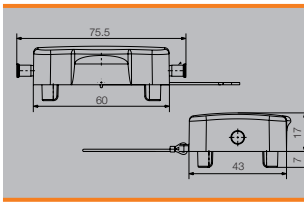
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 20 | w. threading | | | HDC 06B SLU 1M20G N | 2637080000 |
| M 20 | w. threading | with cover | 54 | HDC 06B SDLU 1M20G N | 2560720000 |
| M 20 | w. threading | | 54 | HDC 06B SLU 2M20G | 1788140000 |
| M 20 | w. threading | with cover | 54 | HDC 06B SDLU 2M20G | 1788170000 |
| M 25 | w. threading | | 54 | HDC 06B SLU 2M25G | 1788130000 |
| M 25 | w. threading | without cover | 54 | HDC 06B SLU 2M25G N | 2560860000 |
| M 25 | w. threading | with cover | 54 | HDC 06B SDLU 2M25G | 1788160000 |
| M 25 | w. threading | with cover | 54 | HDC 06B SDLU 2M25G N | 2560830000 |

**Note** Note: N = Plastic locking lever with stainless steel inlay



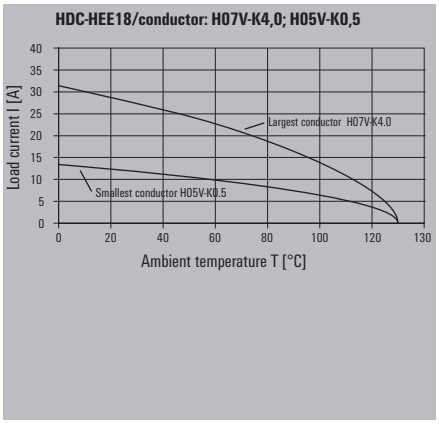

### Cover

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

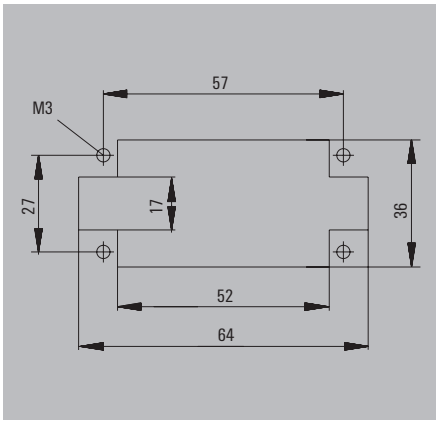


## 500 V, 16 A, size 4

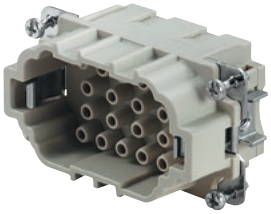
18 + ⏚

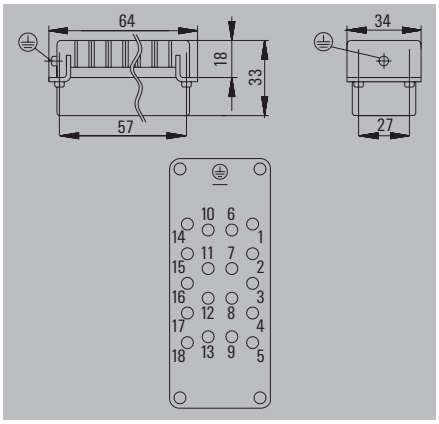



### Installation cut-out




## Male





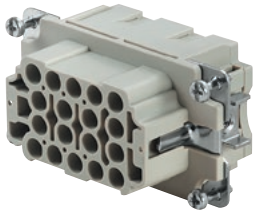

### Ordering data

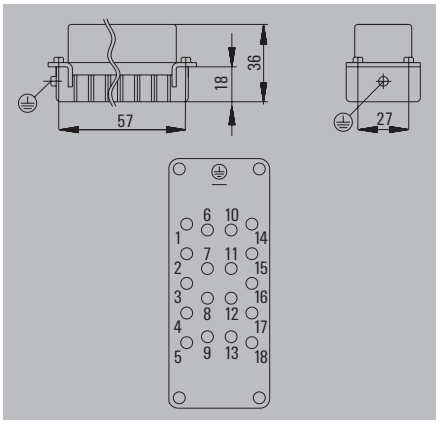
| Type of connection | Type | Qty. | Order No. |
|---|---|---|---|
| Crimp connection | HDC HEE 18 MC | 1 | 1826810000 |

### Accessories

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

## Female






### Ordering data

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

### Accessories

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

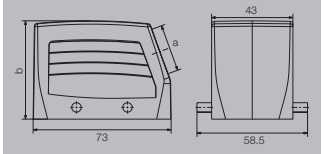
## Housing selection RockStar® IP65
## Size 4

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

## Hood

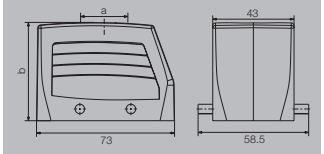
### Plug housing, cable entry sideways

| 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

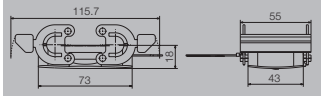
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 20 | w. threading | | 52 | HDC 10B TOBU 1M20G | 1787600000 |
| M 25 | w. threading | | 52 | HDC 10B TOBU 1M25G | 1787590000 |
| M 25 | w. threading | | 72 | HDC 24D TOBU 1M25G | 1787300000 |
| M 32 | w. threading | | 72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




### Cover

| Version | Type | Order No. |
|---|---|---|
| For hoods | HDC 10B DMDQ 2QB | 1665240000 |
| For hoods | HDC 10B DMDQ 2QB N | 2559740000 |

**Note** Note: N = Plastic locking lever with stainless steel inlay

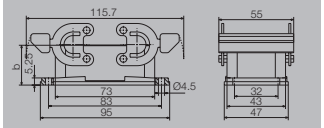



## Base

### Bulkhead housing

| | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| | | | 29.5 | HDC 10B ABU | 1205000000 |
| | | | 29.5 | HDC 10B ABU N | 2488580000 |

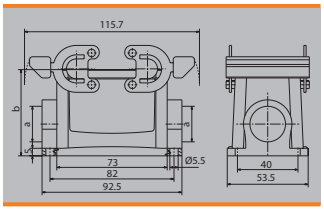
**Note** Note: N = Plastic locking lever with stainless steel inlay




### Base housing

| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 20 | w. threading | | 57 | HDC 10B SBU 1M20G N | 2560880000 |
| M 20 | w. threading | | 57 | HDC 10B SBU 2M20G | 1787640000 |
| M 20 | w. threading | | 57 | HDC 10B SBU 2M20G N | 2560890000 |
| M 25 | w. threading | | 57 | HDC 10B SBU 1M25G N | 2560900000 |
| M 25 | w. threading | | 57 | HDC 10B SBU 2M25G | 1787630000 |
| M 25 | w. threading | | 57 | HDC 10B SBU 2M25G N | 2560910000 |

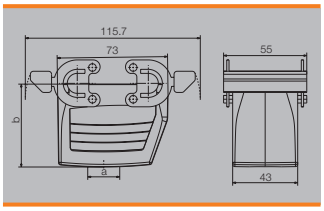
**Note** Note: N = Plastic locking lever with stainless steel inlay




### Coupling housing

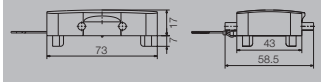
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 20 | w. threading | | 54.65 | HDC 10B KBU 1M20G | 1787720000 |
| M 20 | w. threading | | 54.65 | HDC 10B KBU 1M20G N | 2559860000 |

**Note** Note: N = Plastic locking lever with stainless steel inlay



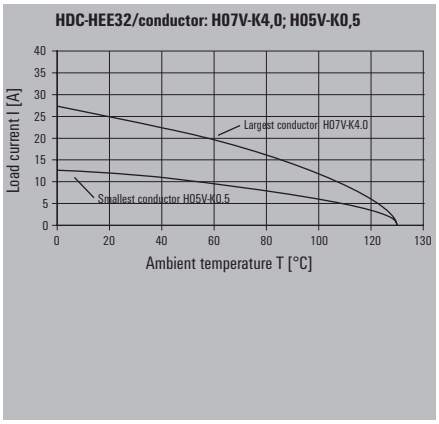

### Cover

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

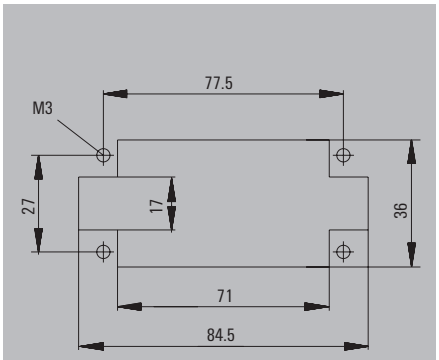


## 500 V, 16 A, size 6

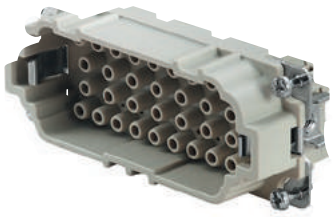
32 + ⏚

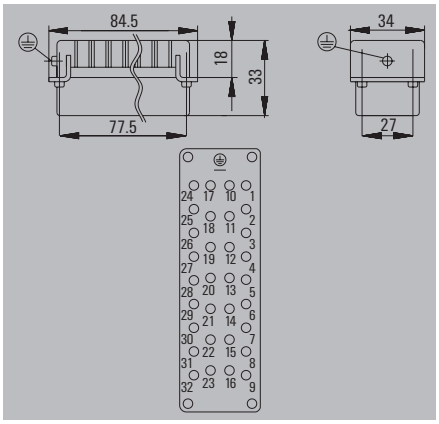



### Installation cut-out




## Male





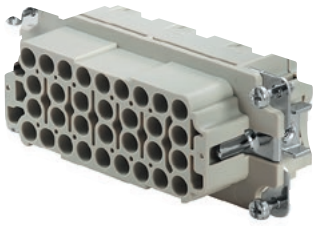

### Ordering data

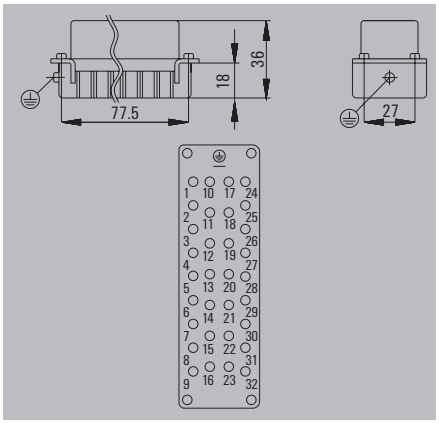
| Type of connection | Type | Qty. | Order No. |
|---|---|---|---|
| Crimp connection | HDC HEE 32 MC | 1 | 1826790000 |

### Accessories

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

## Female






### Ordering data

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

### Accessories

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

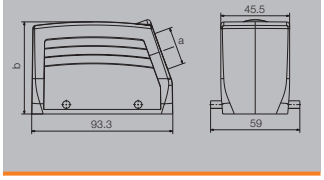
## Housing selection RockStar® IP65
## Size 6

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

## Hood

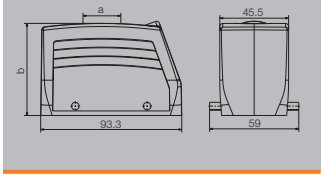
### Plug housing, cable entry sideways

| 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 |



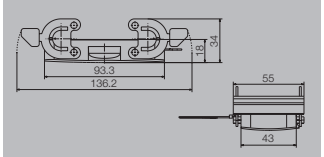

### Plug housing, cable entry at top

| 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 |

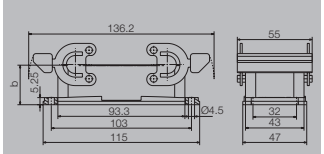



## Base

### Bulkhead housing

| | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| | | | 29 | HDC 16B ABU | 1208600000 |
| | | | 29 | HDC 16B ABU N | 2488590000 |

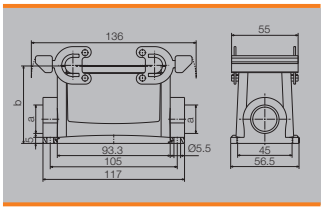
**Note** Note: N = Plastic locking lever with stainless steel inlay




### Base housing

| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 25 | w. threading | | 64 | HDC 16B SBU 1M25G N | 2560740000 |
| M 25 | w. threading | | 64 | HDC 16B SBU 2M25G | 1788240000 |
| M 25 | w. threading | | 64 | HDC 16B SBU 2M25G N | 2560930000 |
| M 25 | w. threading | | 84 | HDC 40D SBU 2M25G | 1787120000 |
| PG 21 | w. threading | | 84 | HDC 40D SBU 1M32G N | 2561030000 |
| M 32 | w. threading | | 84 | HDC 40D SBU 2M32G | 1787110000 |

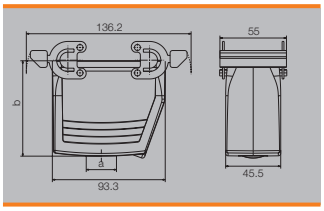
**Note** Note: N = Plastic locking lever with stainless steel inlay




### Coupling housing

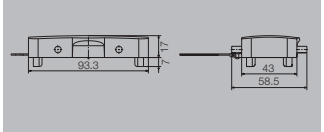
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 25 | w. threading | | 78.6 | HDC 40D KBU 1M25G | 1787200000 |
| PG 29 | w. threading | | 79 | HDC 40D KBU 1M25G N | 2559890000 |
| M 32 | w. threading | | 78.6 | HDC 40D KBU 1M32G | 1787190000 |
| PG 29 | w. threading | | 79 | HDC 40D KBU 1M32G N | 2559900000 |
| PG 29 | w. threading | | 79 | HDC 40D KBU 2M32G N | 2545510000 |

**Note** Note: N = Plastic locking lever with stainless steel inlay




### Cover

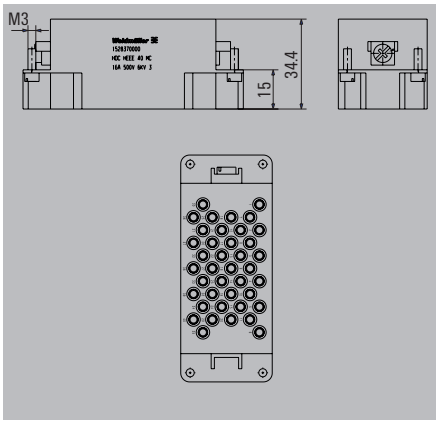
| Version | Type | Order No. |
|---|---|---|
| For bases | HDC 16B DODQ 4BO | 1665260000 |



## 500 V, 16 A, size 6

40 + ⏚

### Male



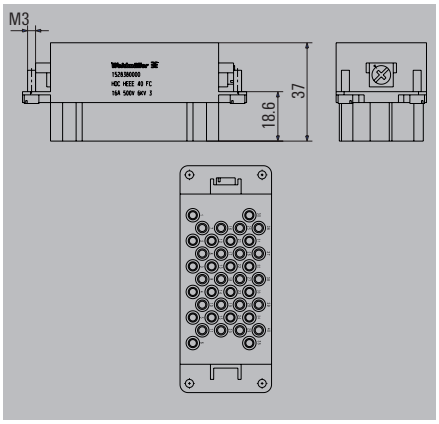

### Ordering data

| Type of connection | Type | Qty. | Order No. |
|---|---|---|---|
| Crimp connection | HDC HEEE 40 MC | 5 | 1528370000 |

### Accessories

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

### Female



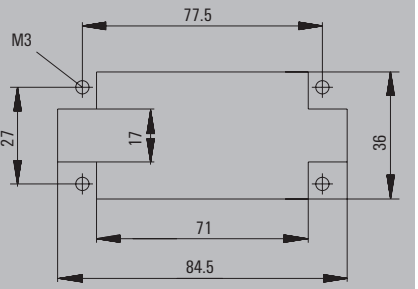

### Ordering data

| Type of connection | Type | Qty. | Order No. |
|---|---|---|---|
| Crimp connection | HDC HEEE 40 FC | 5 | 1528380000 |

### Accessories

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

### Installation cut-out



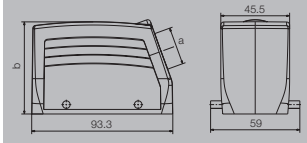
## Housing selection RockStar® IP65
## Size 6

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

## Hood

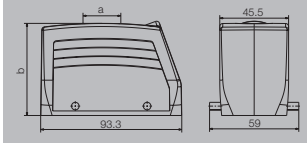
### Plug housing, cable entry sideways

| 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 |



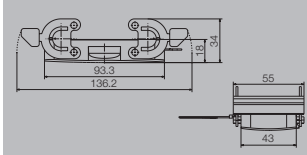

### Plug housing, cable entry at top

| 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 |

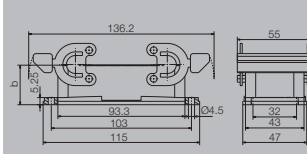



## Base

### Bulkhead housing

| | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| | | | 29 | HDC 16B ABU | 1208600000 |
| | | | 29 | HDC 16B ABU N | 2488590000 |

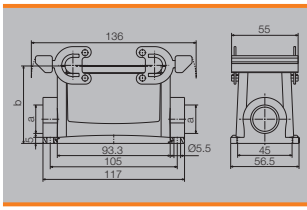
**Note** Note: N = Plastic locking lever with stainless steel inlay




### Base housing

| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 25 | w. threading | | 64 | HDC 16B SBU 1M25G N | 2560740000 |
| M 25 | w. threading | | 64 | HDC 16B SBU 2M25G | 1788240000 |
| M 25 | w. threading | | 64 | HDC 16B SBU 2M25G N | 2560930000 |
| M 25 | w. threading | | 84 | HDC 40D SBU 2M25G | 1787120000 |
| PG 21 | w. threading | | 84 | HDC 40D SBU 1M32G N | 2561030000 |
| M 32 | w. threading | | 84 | HDC 40D SBU 2M32G | 1787110000 |

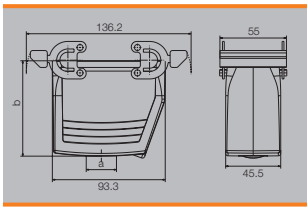
**Note** Note: N = Plastic locking lever with stainless steel inlay




### Coupling housing

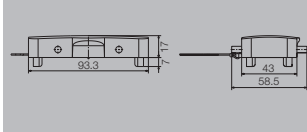
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 25 | w. threading | | 78.6 | HDC 40D KBU 1M25G | 1787200000 |
| PG 29 | w. threading | | 79 | HDC 40D KBU 1M25G N | 2559890000 |
| M 32 | w. threading | | 78.6 | HDC 40D KBU 1M32G | 1787190000 |
| PG 29 | w. threading | | 79 | HDC 40D KBU 1M32G N | 2559900000 |
| PG 29 | w. threading | | 79 | HDC 40D KBU 2M32G N | 2545510000 |

**Note** Note: N = Plastic locking lever with stainless steel inlay



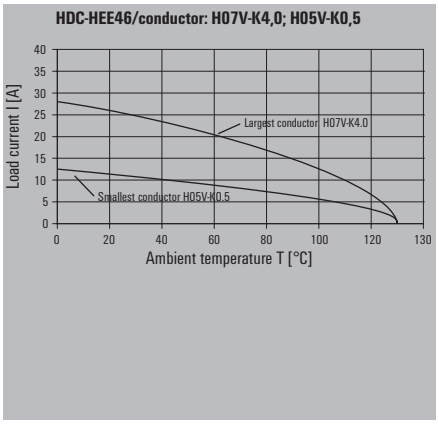

### Cover

| Version | Type | Order No. |
|---|---|---|
| For bases | HDC 16B DODQ 4BO | 1665260000 |

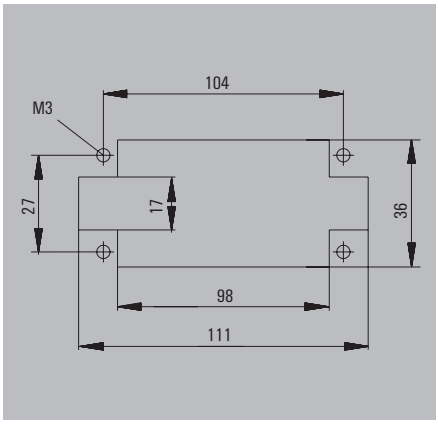


## 500 V, 16 A, size 8

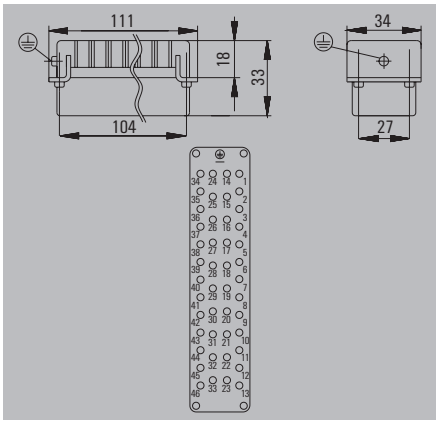
46 + ⏚




### Installation cut-out




## Male



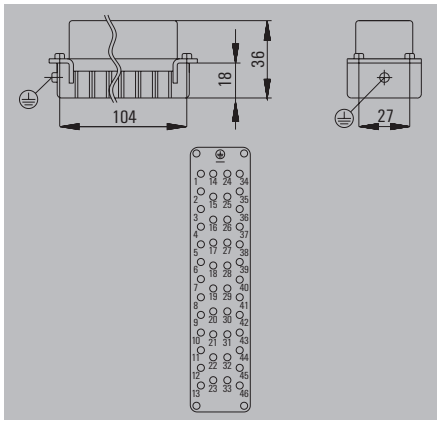

### Ordering data

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

### Accessories

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

## Female




### Ordering data

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

### Accessories

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

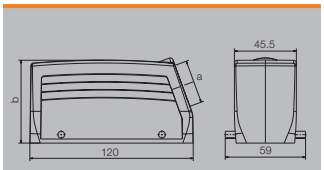
## Housing selection RockStar® IP65
## Size 8

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

## Hood

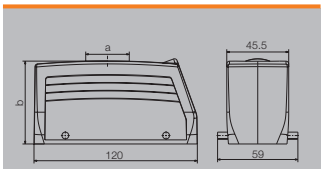
### Plug housing, cable entry sideways

| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 25 | w. threading | | 62.58 | HDC 24B TSBU 1M25G | 1787760000 |
| M 25 | w. threading | | 76 | HDC 64D TSBU 1M25G | 1786780000 |
| M 32 | w. threading | | 62.58 | HDC 24B TSBU 1M32G | 1787750000 |
| M 32 | w. threading | | 76 | HDC 64D TSBU 1M32G | 1786770000 |




### Plug housing, cable entry at top

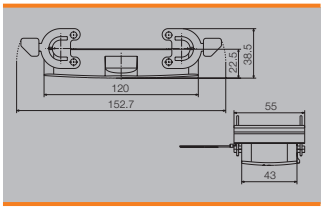
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 25 | w. threading | | 62.58 | HDC 24B TOBU 1M25G | 1787820000 |
| M 32 | w. threading | | 62.58 | HDC 24B TOBU 1M32G | 1787810000 |
| M 32 | w. threading | | 76 | HDC 64D TOBU 1M32G | 1786830000 |




### Cover

| Version | Type | Order No. |
|---|---|---|
| For hoods | HDC 24B DMDQ 2QB | 1665640000 |
| For hoods | HDC 24B DMDQ 2QB N | 2559760000 |

**Note** Note: N = Plastic locking lever with stainless steel inlay

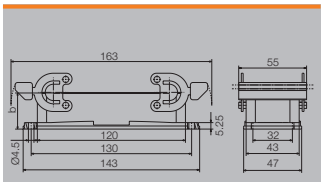



## Base

### Bulkhead housing

| | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| | | | 29.5 | HDC 24B ABU | 1212400000 |
| | | | 29.5 | HDC 24B ABU N | 2488600000 |

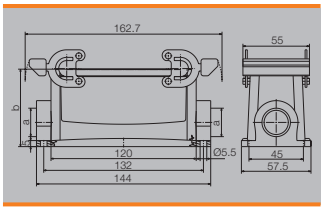
**Note** Note: N = Plastic locking lever with stainless steel inlay




### Base housing

| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 25 | w. threading | | 64 | HDC 24B SBU 2M25G | 1787870000 |
| M 25 | w. threading | | 64 | HDC 24B SBU 2M25G N | 2560970000 |
| M 25 | w. threading | | 84 | HDC 64D SBU 2M25G | 1786890000 |
| M 32 | w. threading | | 84 | HDC 64D SBU 2M25G N | 2561060000 |
| M 32 | w. threading | | 84 | HDC 64D SBU 1M32G N | 2561050000 |
| M 32 | w. threading | | 84 | HDC 64D SBU 2M32G | 1786880000 |

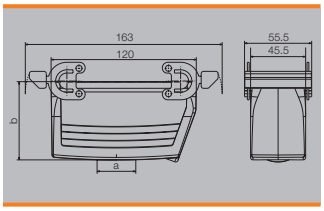
**Note** Note: N = Plastic locking lever with stainless steel inlay




### Coupling housing

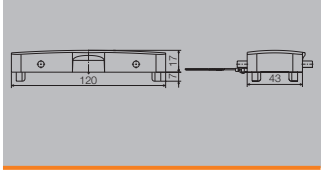
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 25 | w. threading | | 65 | HDC 24B KBU 1M25G | 1787920000 |
| M 25 | w. threading | | 65 | HDC 24B KBU 1M25G N | 2559870000 |
| M 32 | w. threading | | 65 | HDC 24B KBU 2M32G N | 2559880000 |
| M 32 | w. threading | | 79 | HDC 64D KBU 1M32G | 1786960000 |
| M 32 | w. threading | | 79 | HDC 64D KBU 1M32G N | 2559910000 |

**Note** Note: N = Plastic locking lever with stainless steel inlay



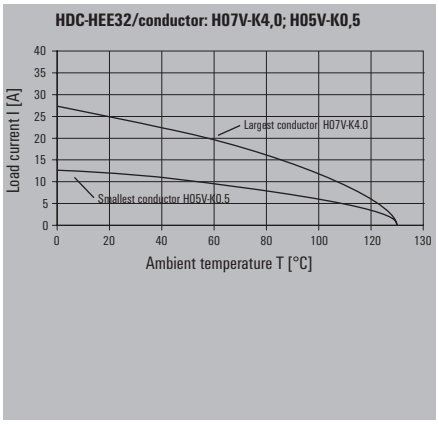

### Cover

| Version | Type | Order No. |
|---|---|---|
| For bases | HDC 24B DODQ 4BO | 1665630000 |

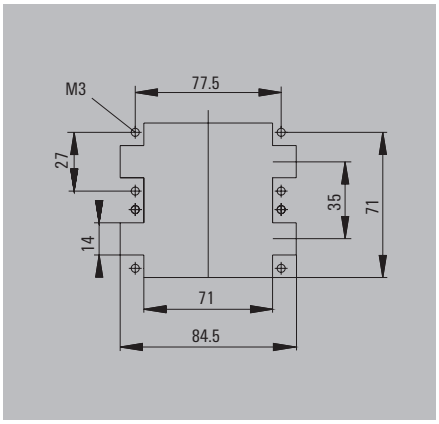


## 500 V, 16 A, size 10

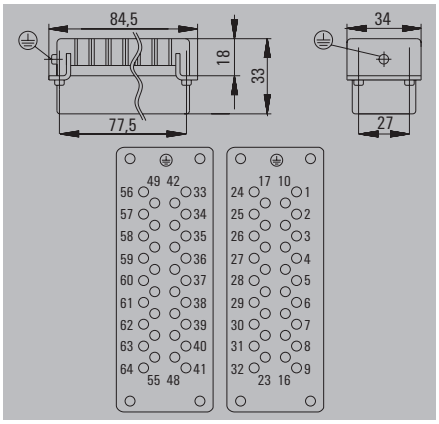
64 + ⏚




### Installation cut-out




## Male



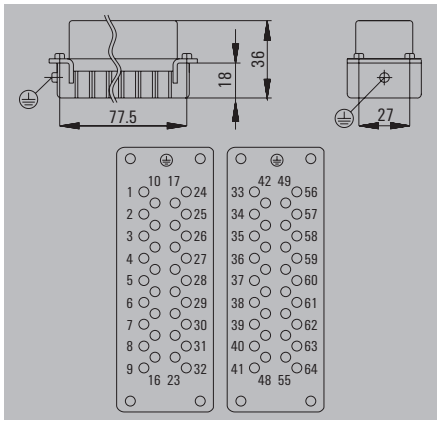

### Ordering data

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

### Accessories

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

## Female




### Ordering data

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

### Accessories

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

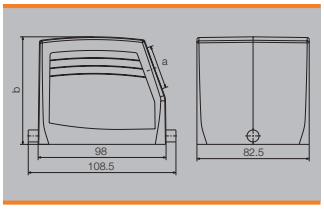
## Housing selection RockStar® IP65
## Size 10

For additional housings, refer to chapter D for IP65

### Hood

**Plug housing, cable entry sideways**

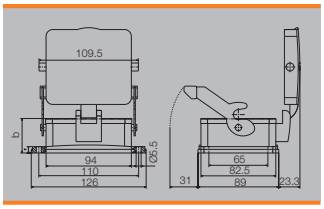
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 32 | w. threading | | 79 | HDC 32B TSLU 1M32G | 1788420000 |




### Base

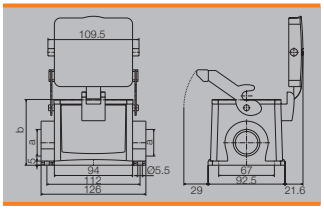
**Bulkhead housing**

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



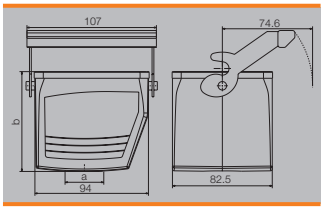

**Base housing**

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



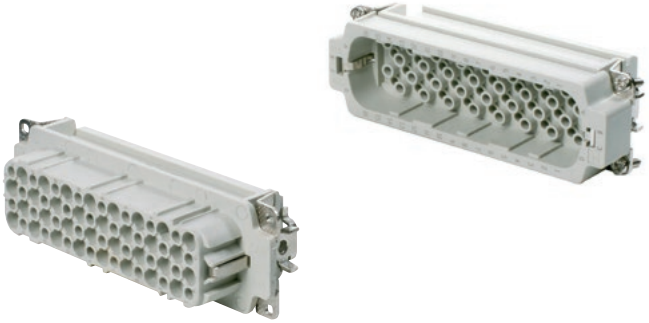

**Coupling housing**

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



# HD series

The 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<br>DIN EN 60664-1<br>DIN EN 175301-801 |
| Approvals | UL/CSA |
| **Inserts** | |
| No. of poles | 7, 15, 16, 25, 40, 50, 64, 80, 128 (+ PE), 8 |
| Rated voltage | 250 V |
| Rated voltage to UL/CSA | 600 V |
| Rated current | 10 A |
| Rated impulse withstand voltage | 4 kV |
| Pollution severity | 3 |
| Insulation resistance | ≥ $10^{10}$ Ω |
| Material | Glass-fibre reinforced PC (in UL list and approved for railway applications) |
| Temperature range | –40 °C to +125 °C |
| Flammability to UL 94 | V-0 |
| Mechanical service life | |
| – Plugging cycles Ag - Surface | ≥ 500 |
| – Plugging cycles Au - Surface | ≥ 500 |
| Contact resistance | |
| Crimp connection | ≤ 4 mΩ |
| **Contacts/Material** | |
| Sockets and plug-in contact | Copper alloy |
| Surface | Passivated silver, or gold-plated |
| Crimp connection | |
| – Flexible conductor connection | 0.14 – 2.5 mm² (AWG 26 – 14) |
| – Stripping length | 8.0 mm |
| PE connection | |
| – Clamping range | 0.5 – 2.5 mm² |
| – solid/stranded | 0.5 – 2.5 mm² / 0.5 – 2.5 mm² |
| – flexible/flexible with wire end ferrule, DIN 46228 pt. 1 | 0.5 – 2.5 mm² / 0.5 – 2.5 mm² |
| – AWG conductor | AWG 20 – 14 |
| – Stripping length | 10 mm |
| – Clamping torque | 1.2 – 1.5 Nm |
| – Blade dimensions | SD 0.8 x 4 mm or PZ1 |

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

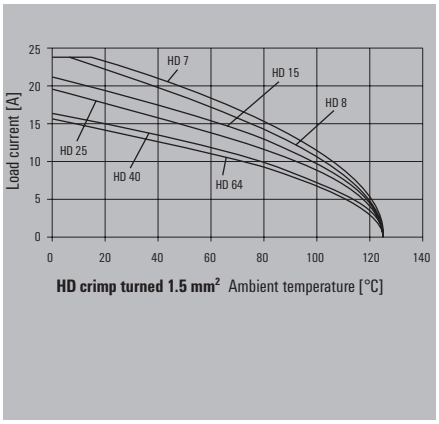
When using connectors with high contact density, we recommend the use of guide pins and sockets; see Chapter I.

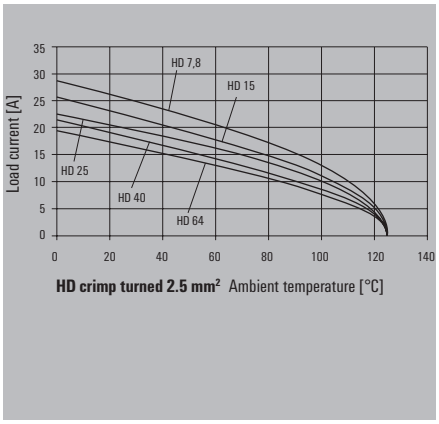
## Overview

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

## 250 V, 10 A, size 1

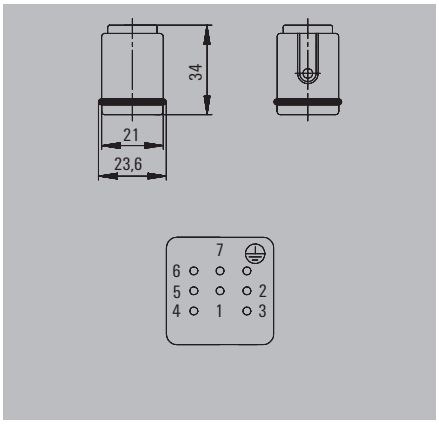
7 + ⏚




### Installation cut-out

## Male



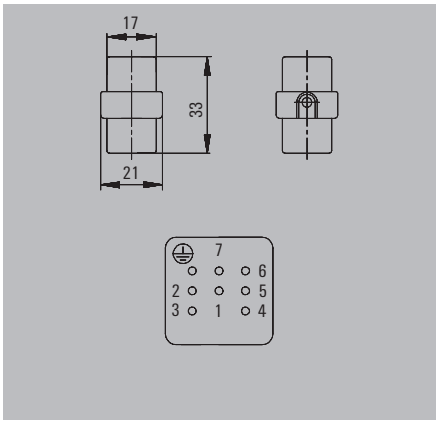

### Ordering data

| Type of connection | Type | Qty. | Order No. |
|---|---|---|---|
| Crimp connection | HDC HD 7 MC | 1 | **1650570000** |
| Can only be used in plastic housings. | | | |

### Accessories

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

## Female




### Ordering data

| Type of connection | Type | Qty. | Order No. |
|---|---|---|---|
| Crimp connection | HDC HD 7 FC | 1 | **1650580000** |
| Can only be used in plastic housings. | | | |

### Accessories

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

## Housing selection RockStar® IP65
## Size 1

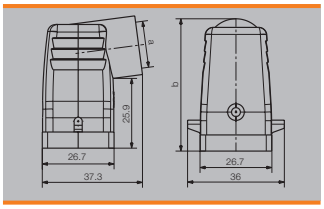
**For additional housings, refer to**
**Chapter D for IP65 / Chapter F for IP68 EMC**

### Hood

**Plug housing, cable entry sideways**

**Material:** Plastic

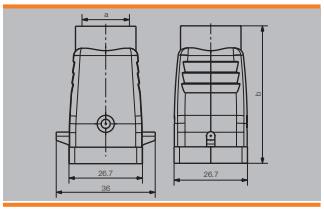
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 20 | w. threading | | 49.2 | HDC 07A TWLU 1M20G | 1788510000 |




**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 |

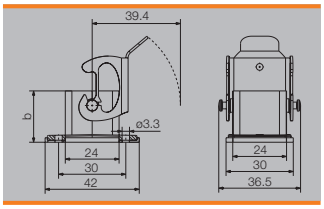



### Base

**Bulkhead housing**

**Material:** Plastic

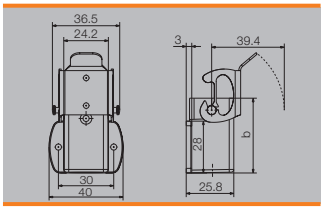
| | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| | | | 23 | HDC 07A ALU | 1652410000 |




**Base housing**

**Material:** Plastic

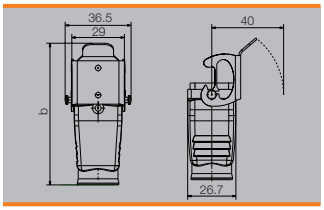
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 20 | w. threading | | 41.5 | HDC 07A SLU 1M20G | 1788530000 |




**Coupling housing**

**Material:** Plastic

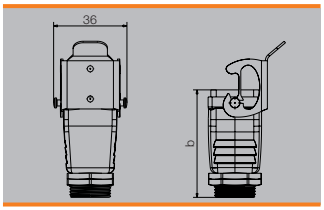
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 20 | w. threading | | 53.5 | HDC 07A KOLU 1M20G | 1788540000 |




**Screw mounting housing**

**Material:** Plastic

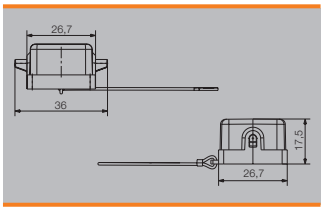
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| PG 13.5 | w. threading | | 54 | HDC 07A ELU 1PG13G | 1900990000 |




**Cover**

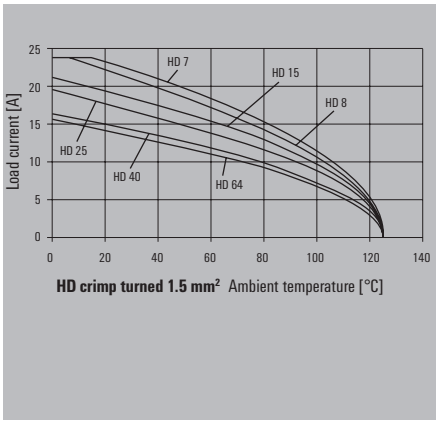
**Material:** Plastic

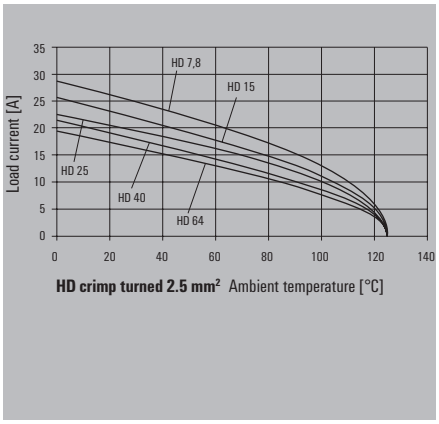
| Version | Type | Order No. |
|---|---|---|
| with female | HDC 07A DMDL 2BO | 1665770000 |
| with male | HDC 07A DODL 2BO | 1665760000 |



## 50 V, 10 A, size 1

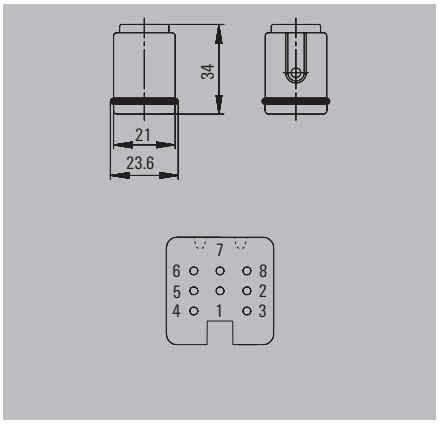
## 8




### Installation cut-out

### Male



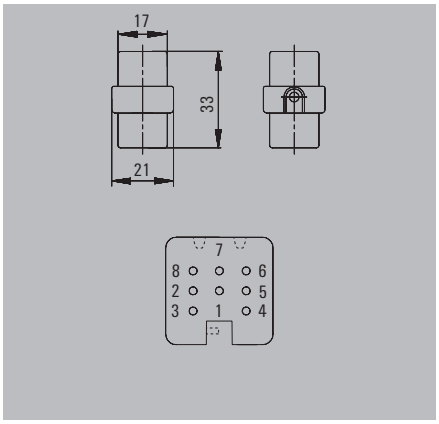

### Ordering data

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

### Accessories

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

### Female




### Ordering data

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

### Accessories

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

## Housing selection RockStar® IP65
## Size 1

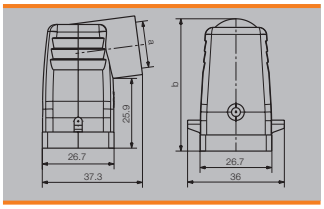
**For additional housings, refer to**
**Chapter D for IP65 / Chapter F for IP68 EMC**

### Hood

**Plug housing, cable entry sideways**

**Material:** Plastic

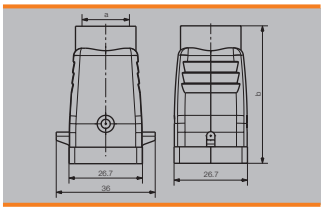
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 20 | w. threading | | 49.2 | HDC 07A TWLU 1M20G | 1788510000 |




**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 |

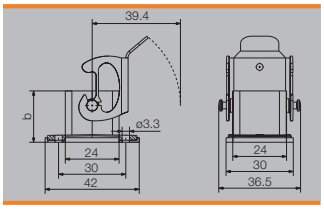



### Base

**Bulkhead housing**

**Material:** Plastic

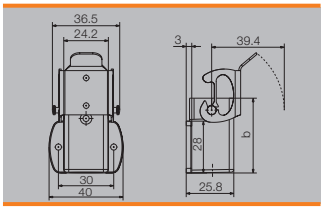
| | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| | | | 23 | HDC 07A ALU | 1652410000 |




**Base housing**

**Material:** Plastic

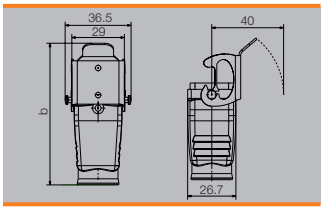
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 20 | w. threading | | 41.5 | HDC 07A SLU 1M20G | 1788530000 |




**Coupling housing**

**Material:** Plastic

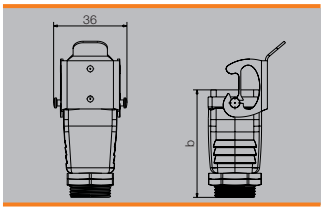
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 20 | w. threading | | 53.5 | HDC 07A KOLU 1M20G | 1788540000 |




**Screw mounting housing**

**Material:** Plastic

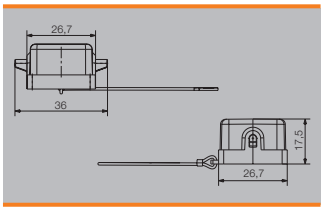
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| PG 13.5 | w. threading | | 54 | HDC 07A ELU 1PG13G | 1900990000 |




**Cover**

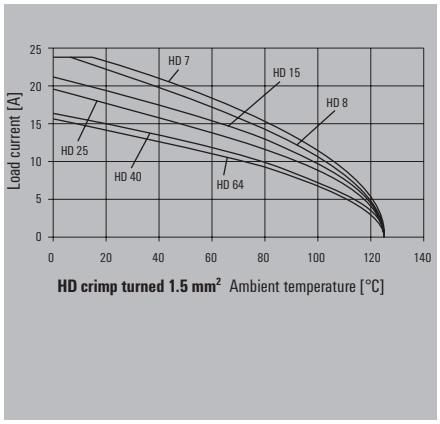
**Material:** Plastic

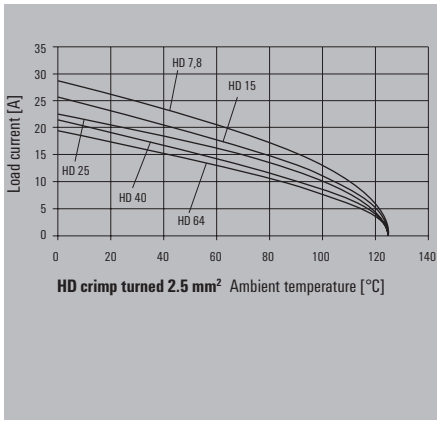
| Version | Type | Order No. |
|---|---|---|
| with female | HDC 07A DMDL 2BO | 1665770000 |
| with male | HDC 07A DODL 2BO | 1665760000 |



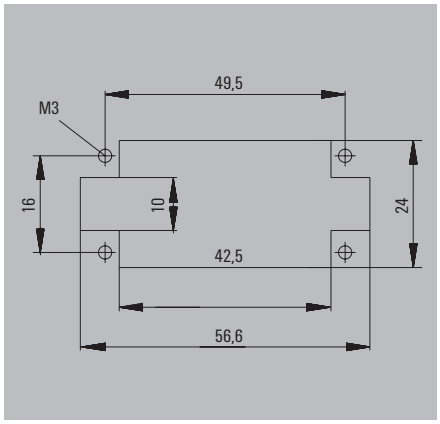
## 250 V, 10 A, size 2

15 + ⏚

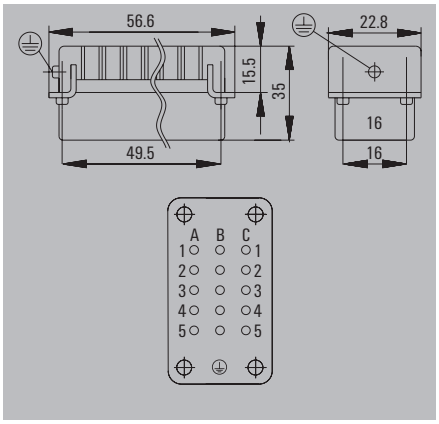



### Installation cut-out




## Male



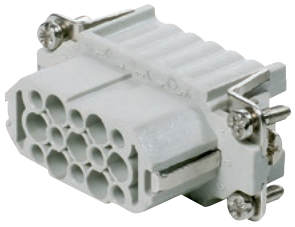

### Ordering data

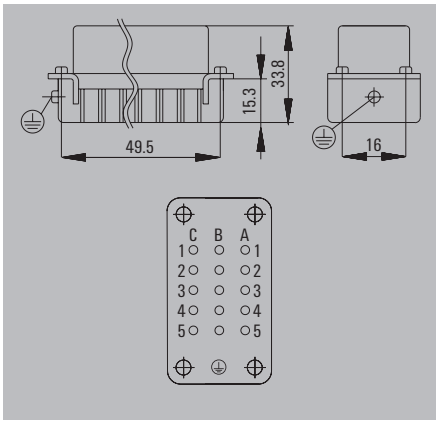
| Type of connection | Type | Qty. | Order No. |
|---|---|---|---|
| Crimp connection | HDC HD 15 MC | 1 | 1650650000 |

### Accessories

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

## Female






### Ordering data

| Type of connection | Type | Qty. | Order No. |
|---|---|---|---|
| Crimp connection | HDC HD 15 FC | 1 | 1650660000 |

### Accessories

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

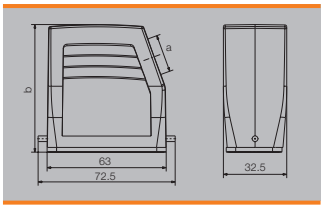
## Housing selection RockStar® IP65
## Size 2

For additional housings, refer to chapter D for IP65

## Hood

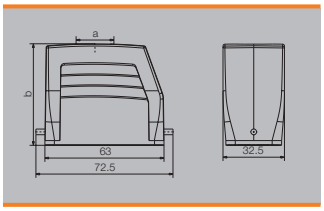
### Plug housing, cable entry sideways

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



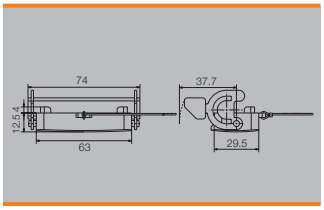

### Plug housing, cable entry at top

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




### Cover

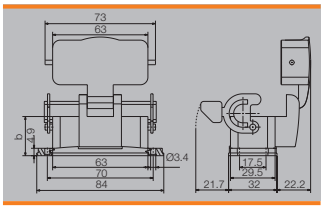
| Version | Type | Order No. |
|---|---|---|
| For hoods | HDC 10A DODL 1LB | 1665890000 |




## Base

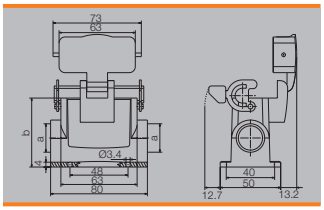
### Bulkhead housing

| | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| | | without cover | 25 | HDC 10A ALU | 1664040000 |
| | | with cover | 37.5 | HDC 10A ADLU | 1664060000 |



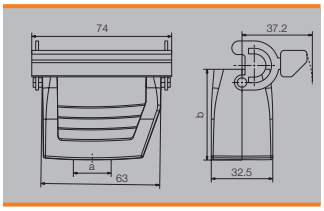

### Base housing

| 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 |



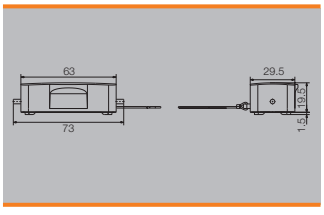

### Coupling housing

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



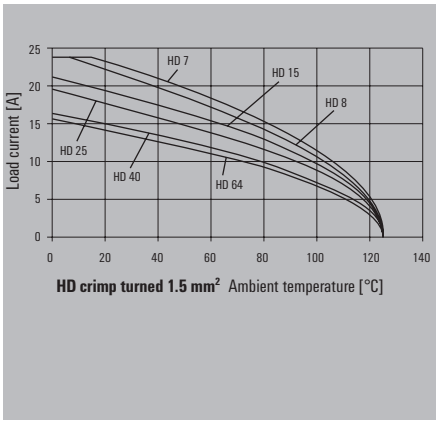

### Cover

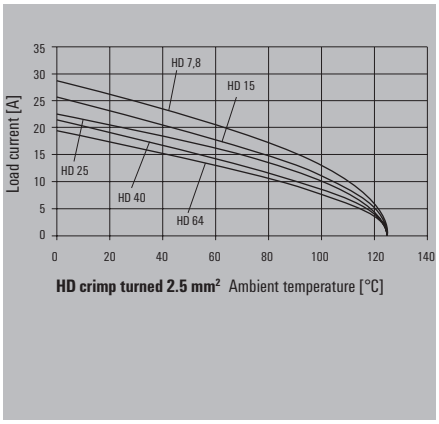
| Version | Type | Order No. |
|---|---|---|
| For bases | HDC 10A DMDL 2BO | 1665880000 |



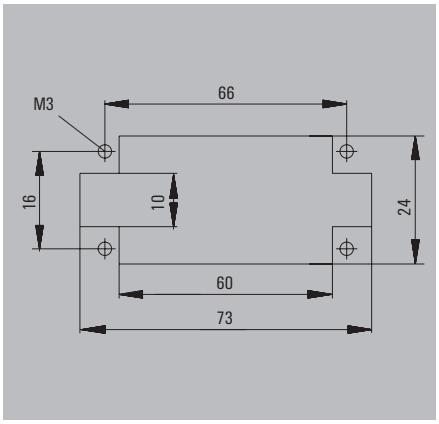
## 250 V, 10 A, size 5

25 + ⏚

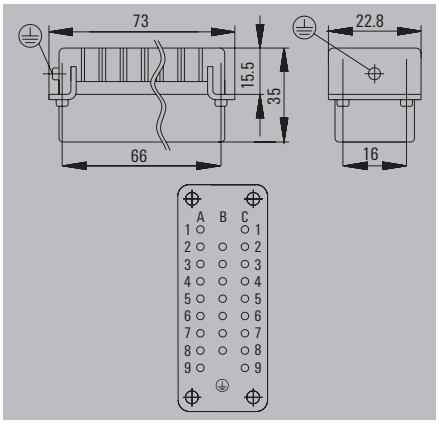



### Installation cut-out




## Male




### Ordering data

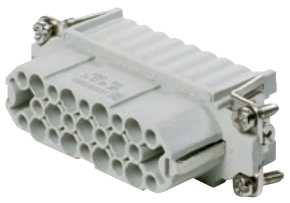
| Type of connection | Type | Qty. | Order No. |
|---|---|---|---|
| Crimp connection | HDC HD 25 MC | 1 | 1650810000 |

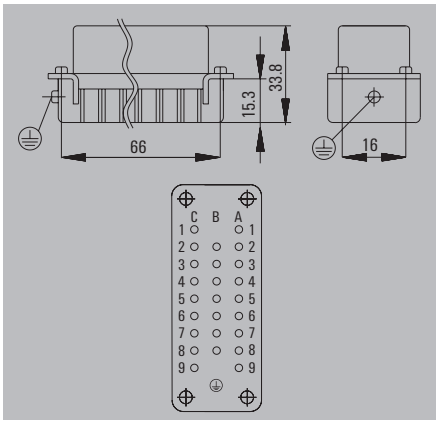
Please use this insert type doubled for size 7 (50-pole). We recommend the use of guide pins and sockets.

### Accessories

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

## Female






### Ordering data

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

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

### Accessories

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

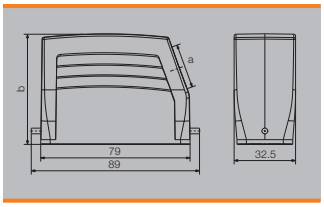
## Housing selection RockStar® IP65
## Size 5

For additional housings, refer to chapter D for IP65

## Hood

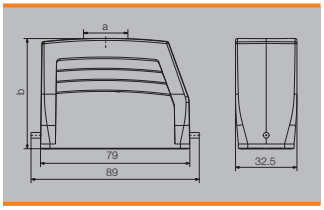
### Plug housing, cable entry sideways

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



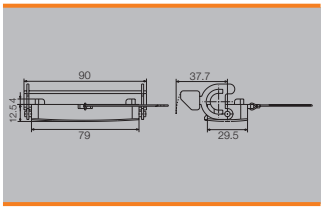

### Plug housing, cable entry at top

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




### Cover

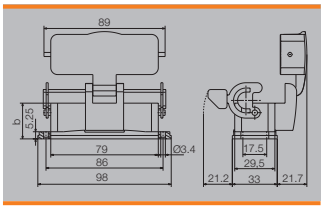
| Version | Type | Order No. |
|---|---|---|
| For hoods | HDC 16A DODL 1LB | 1665900000 |




## Base

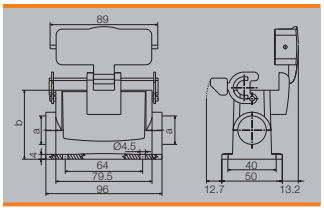
### Bulkhead housing

| | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| | | without cover | 26.25 | HDC 16A ALU | 1664920000 |
| | | with cover | 26.25 | HDC 16A ADLU | 1664940000 |



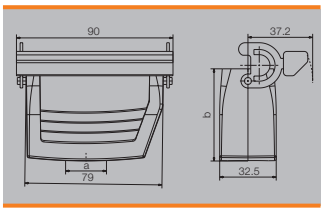

### Base housing

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



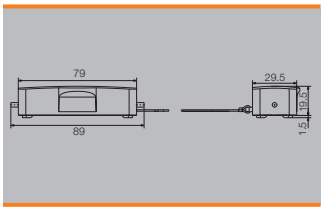

### Coupling housing

| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 25 | w. threading | | 52.62 | HDC 16A KLU 1M25G | 1788800000 |



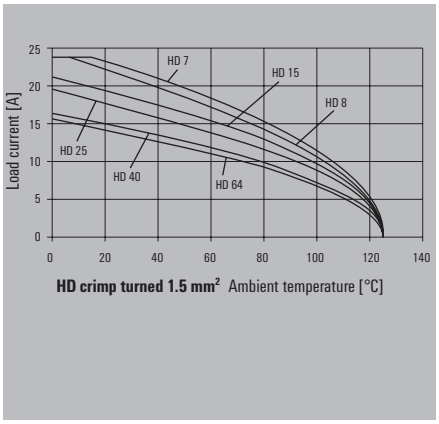

### Cover

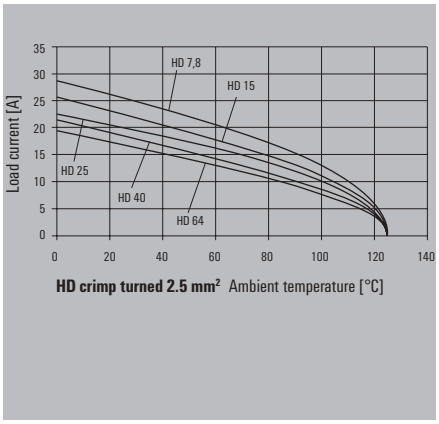
| Version | Type | Order No. |
|---|---|---|
| For bases | HDC 16A DMDL 2BO | 1665910000 |



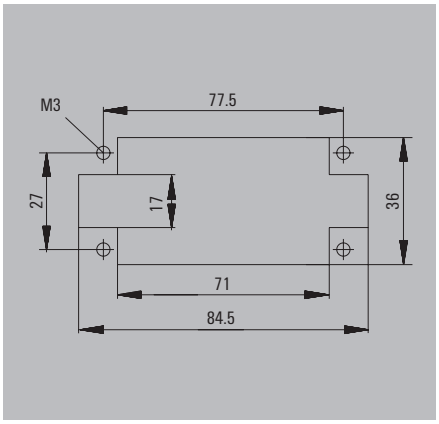
## 250 V, 10 A, size 6

40 + ⏚

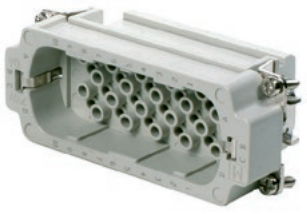


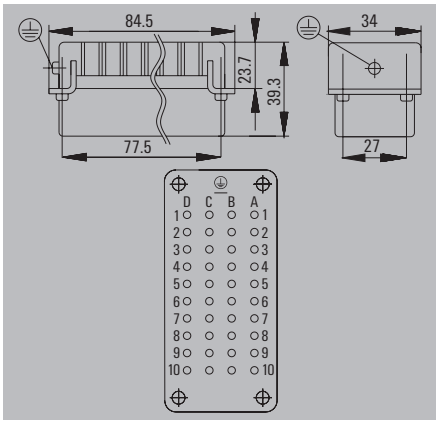




### Installation cut-out




## Male






### Ordering data

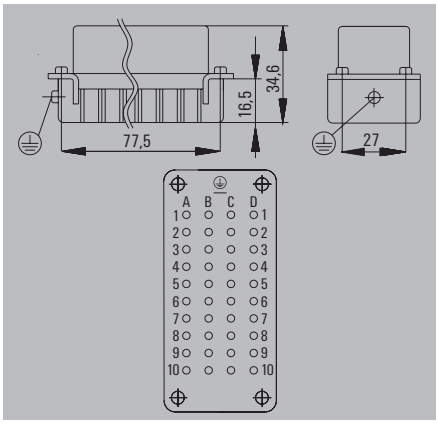
| Type of connection | Type | Qty. | Order No. |
|---|---|---|---|
| Crimp connection | HDC HD 40 MC | 1 | 1601710000 |

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

### Accessories

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

## Female




### Ordering data

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

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

### Accessories

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

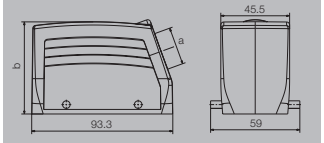
## Housing selection RockStar® IP65
## Size 6

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

## Hood

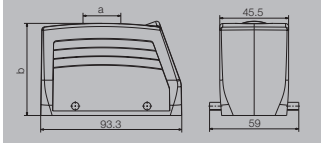
### Plug housing, cable entry sideways

| 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 |



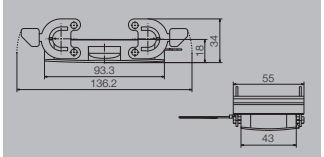

### Plug housing, cable entry at top

| 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 |

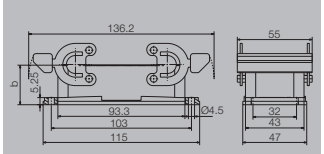



## Base

### Bulkhead housing

| | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| | | | 29 | HDC 16B ABU | 1208600000 |
| | | | 29 | HDC 16B ABU N | 2488590000 |

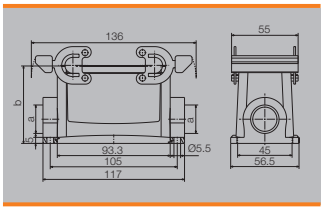
**Note** Note: N = Plastic locking lever with stainless steel inlay




### Base housing

| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 25 | w. threading | | 64 | HDC 16B SBU 1M25G N | 2560740000 |
| M 25 | w. threading | | 64 | HDC 16B SBU 2M25G | 1788240000 |
| M 25 | w. threading | | 64 | HDC 16B SBU 2M25G N | 2560930000 |
| M 25 | w. threading | | 84 | HDC 40D SBU 2M25G | 1787120000 |
| PG 21 | w. threading | | 84 | HDC 40D SBU 1M32G N | 2561030000 |
| M 32 | w. threading | | 84 | HDC 40D SBU 2M32G | 1787110000 |

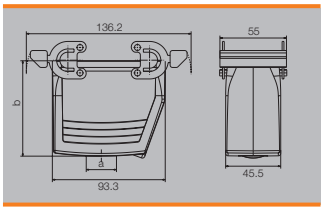
**Note** Note: N = Plastic locking lever with stainless steel inlay




### Coupling housing

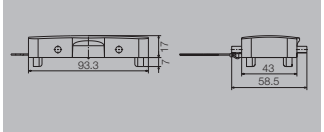
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 25 | w. threading | | 78.6 | HDC 40D KBU 1M25G | 1787200000 |
| PG 29 | w. threading | | 79 | HDC 40D KBU 1M25G N | 2559890000 |
| M 32 | w. threading | | 78.6 | HDC 40D KBU 1M32G | 1787190000 |
| PG 29 | w. threading | | 79 | HDC 40D KBU 1M32G N | 2559900000 |
| PG 29 | w. threading | | 79 | HDC 40D KBU 2M32G N | 2545510000 |

**Note** Note: N = Plastic locking lever with stainless steel inlay



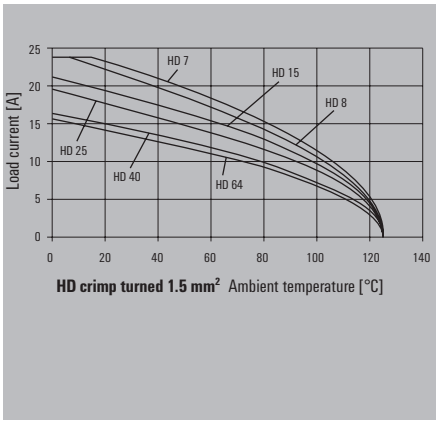

### Cover

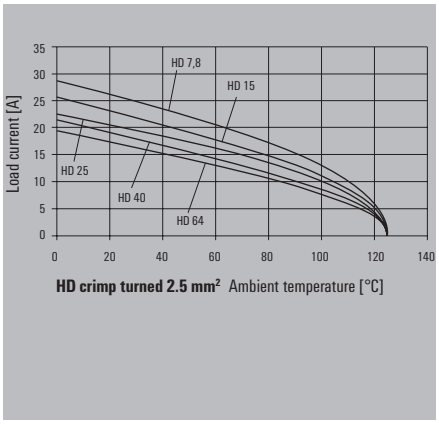
| Version | Type | Order No. |
|---|---|---|
| For bases | HDC 16B DODQ 4BO | 1665260000 |



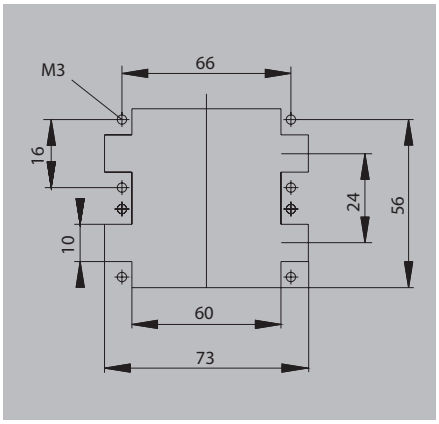
## 250 V, 10 A, size 7

## 50 + ⏚

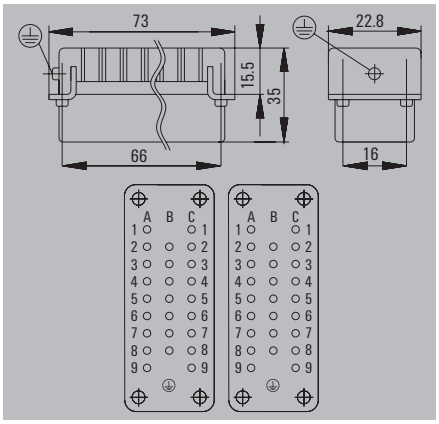



### Installation cut-out




## Male




### Ordering data

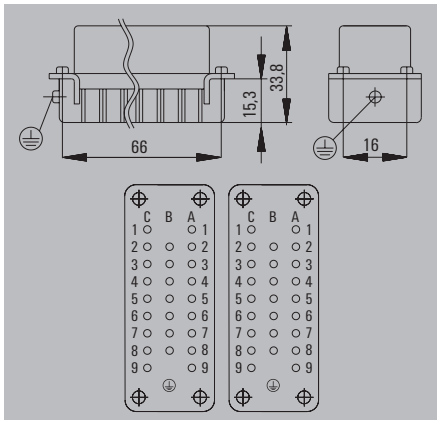
| Type of connection | Type | Qty. | Order No. |
|---|---|---|---|
| Crimp connection | HDC HD 25 MC | 1 | 1650810000 |
| Crimp connection | HDC HD 25 MC Z | 1 | 1023040000 |

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

### Accessories

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

## Female




### Ordering data

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

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

### Accessories

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

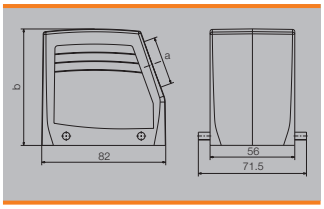
## Housing selection RockStar® IP65
## Size 7

For additional housings, refer to chapter D for IP65

### Hood

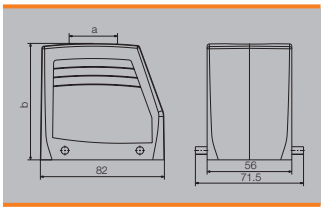
#### Plug housing, cable entry sideways

| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 25 | w. threading | | 77 | HDC 32A TSBU 1M25G | 1787960000 |
| M 32 | w. threading | | 77 | HDC 32A TSBU 1M32G | 1787950000 |




#### Plug housing, cable entry at top

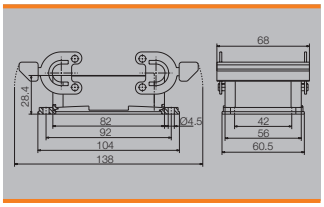
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 32 | w. threading | | 77 | HDC 32A TOBU 1M32G | 1787990000 |




### Base

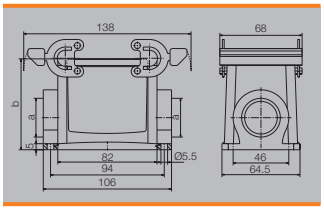
#### Bulkhead housing

| | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| | | | 30 | HDC 32A ABU | 1665860000 |



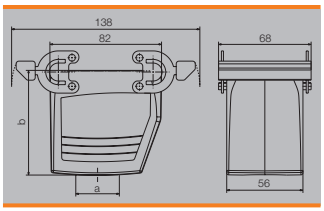

#### Base housing

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

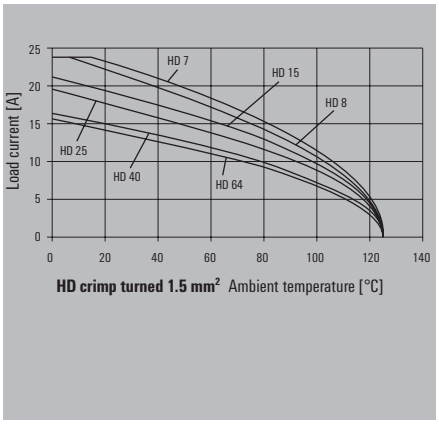


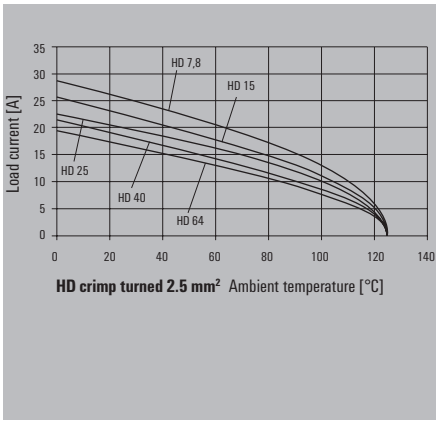

#### Coupling housing

| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 25 | w. threading | | 77 | HDC 32A KBU 1M25G | 1788080000 |
| M 32 | w. threading | | 77 | HDC 32A KBU 1M32G | 1788070000 |

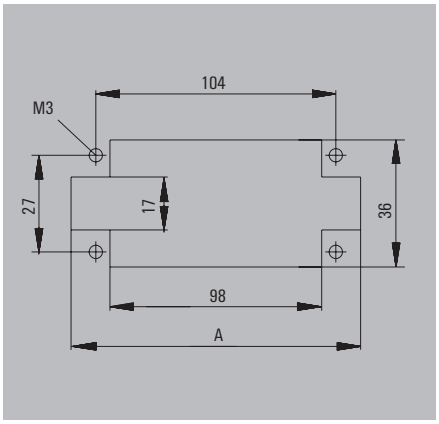


## 250 V, 10 A, size 8
## 64 + ⏚

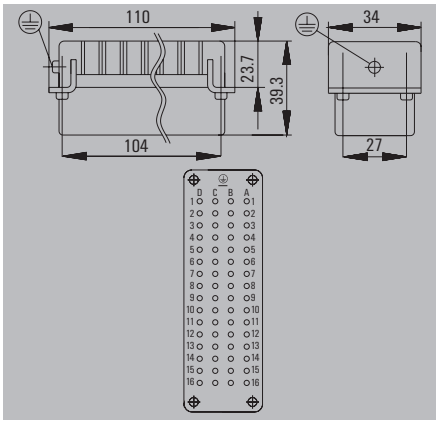



### Installation cut-out




### Male




### Ordering data

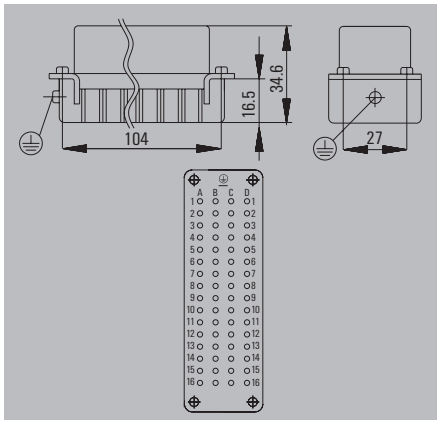
| Type of connection | Type | Qty. | Order No. |
|---|---|---|---|
| Crimp connection | HDC HD 64 MC | 1 | 1601720000 |

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

### Accessories

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

### Female




### Ordering data

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

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

### Accessories

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

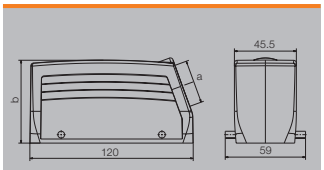
## Housing selection RockStar® IP65
## Size 8

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

## Hood

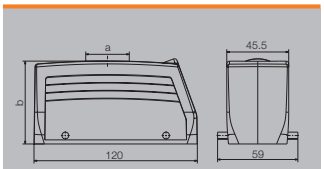
### Plug housing, cable entry sideways

| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 25 | w. threading | | 62.58 | HDC 24B TSBU 1M25G | 1787760000 |
| M 25 | w. threading | | 76 | HDC 64D TSBU 1M25G | 1786780000 |
| M 32 | w. threading | | 62.58 | HDC 24B TSBU 1M32G | 1787750000 |
| M 32 | w. threading | | 76 | HDC 64D TSBU 1M32G | 1786770000 |




### Plug housing, cable entry at top

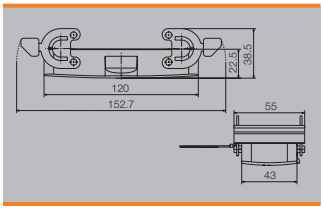
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 25 | w. threading | | 62.58 | HDC 24B TOBU 1M25G | 1787820000 |
| M 32 | w. threading | | 62.58 | HDC 24B TOBU 1M32G | 1787810000 |
| M 32 | w. threading | | 76 | HDC 64D TOBU 1M32G | 1786830000 |




### Cover

| Version | Type | Order No. |
|---|---|---|
| For hoods | HDC 24B DMDQ 2QB | 1665640000 |
| For hoods | HDC 24B DMDQ 2QB N | 2559760000 |

**Note** Note: N = Plastic locking lever with stainless steel inlay

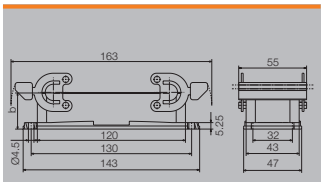



## Base

### Bulkhead housing

| | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| | | | 29.5 | HDC 24B ABU | 1212400000 |
| | | | 29.5 | HDC 24B ABU N | 2488600000 |

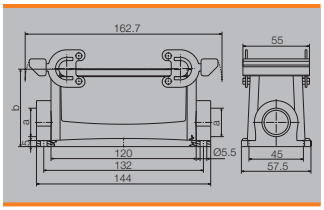
**Note** Note: N = Plastic locking lever with stainless steel inlay




### Base housing

| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 25 | w. threading | | 64 | HDC 24B SBU 2M25G | 1787870000 |
| M 25 | w. threading | | 64 | HDC 24B SBU 2M25G N | 2560970000 |
| M 25 | w. threading | | 84 | HDC 64D SBU 2M25G | 1786890000 |
| M 32 | w. threading | | 84 | HDC 64D SBU 2M25G N | 2561060000 |
| M 32 | w. threading | | 84 | HDC 64D SBU 1M32G N | 2561050000 |
| M 32 | w. threading | | 84 | HDC 64D SBU 2M32G | 1786880000 |

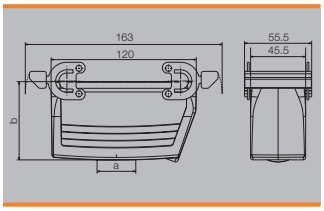
**Note** Note: N = Plastic locking lever with stainless steel inlay




### Coupling housing

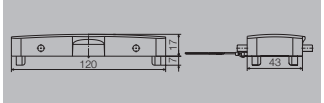
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 25 | w. threading | | 65 | HDC 24B KBU 1M25G | 1787920000 |
| M 25 | w. threading | | 65 | HDC 24B KBU 1M25G N | 2559870000 |
| M 32 | w. threading | | 65 | HDC 24B KBU 2M32G N | 2559880000 |
| M 32 | w. threading | | 79 | HDC 64D KBU 1M32G | 1786960000 |
| M 32 | w. threading | | 79 | HDC 64D KBU 1M32G N | 2559910000 |

**Note** Note: N = Plastic locking lever with stainless steel inlay



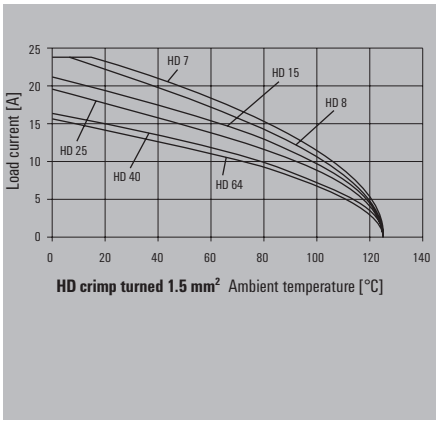

### Cover

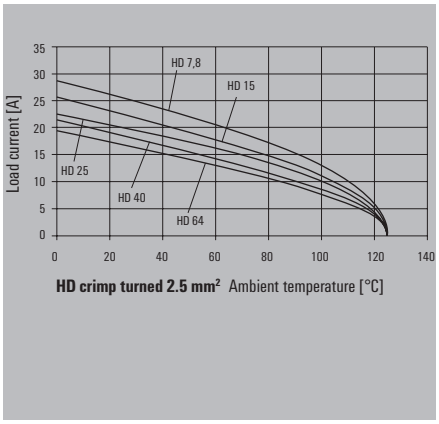
| Version | Type | Order No. |
|---|---|---|
| For bases | HDC 24B DODQ 4BO | 1665630000 |



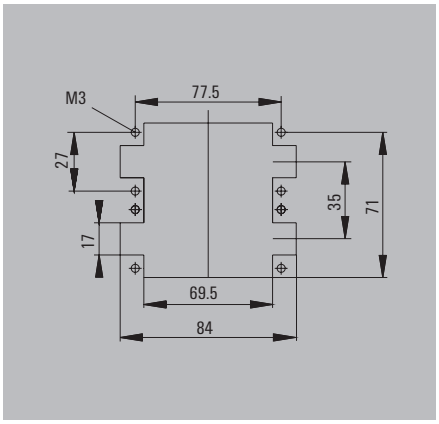
## 250 V, 10 A, size 10

80 + ⏚

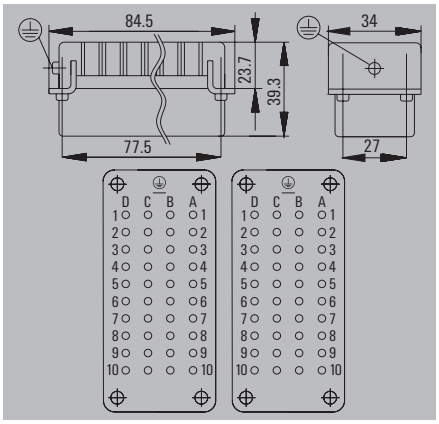



### Installation cut-out




## Male




### Ordering data

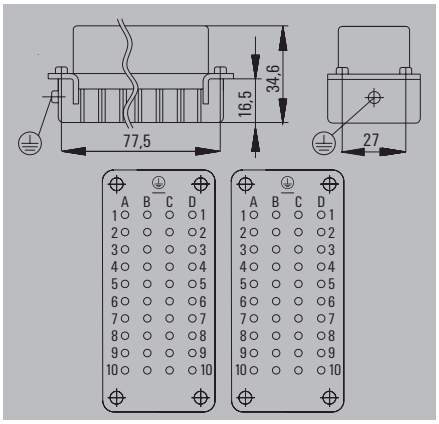
| Type of connection | Type | Qty. | Order No. |
|---|---|---|---|
| Crimp connection | HDC HD 40 MC | 1 | 1601710000 |

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

### Accessories

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

## Female




### Ordering data

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

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

### Accessories

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

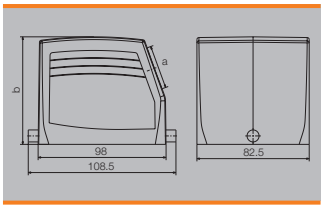
## Housing selection RockStar® IP65
## Size 10

For additional housings, refer to chapter D for IP65

### Hood

#### Plug housing, cable entry sideways

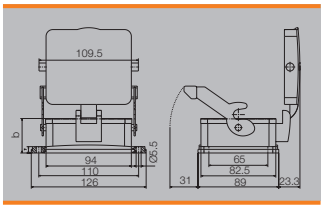
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 32 | w. threading | | 79 | HDC 32B TSLU 1M32G | 1788420000 |




### Base

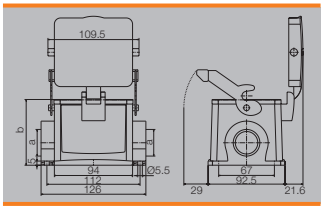
#### Bulkhead housing

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



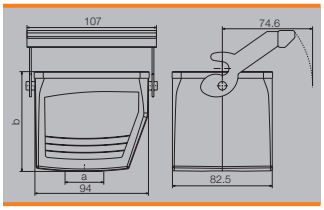

#### Base housing

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



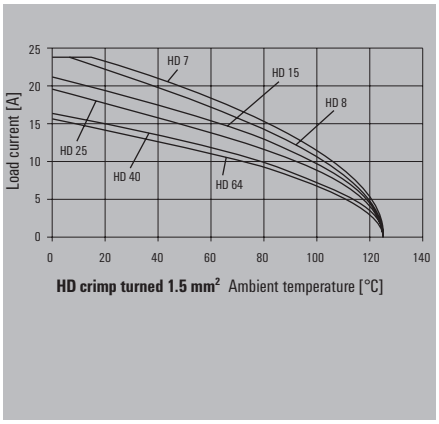

#### Coupling housing

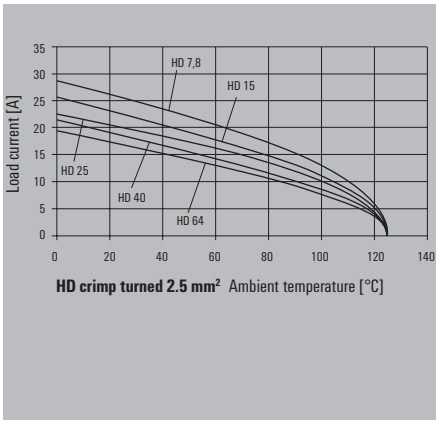
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 32 | w. threading | | 83 | HDC 32B KLU 1M32G | 1788500000 |



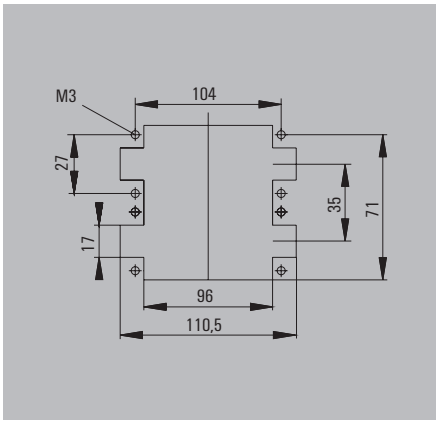
## 250 V, 10 A, size 12

128 + ⏚

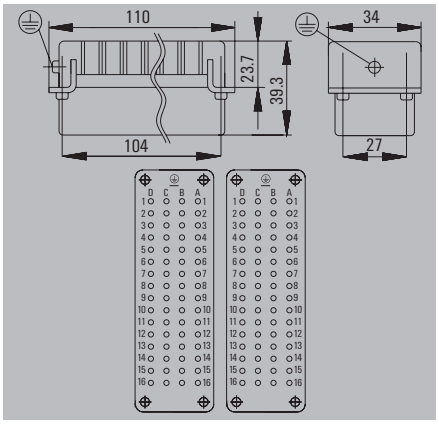



### Installation cut-out




## Male




### Ordering data

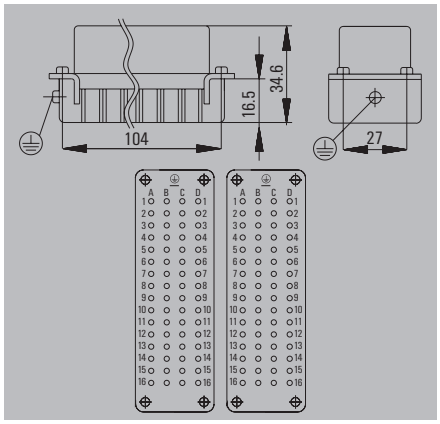
| Type of connection | Type | Qty. | Order No. |
|---|---|---|---|
| Crimp connection | HDC HD 64 MC | 1 | 1601720000 |

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

### Accessories

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

## Female




### Ordering data

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

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

### Accessories

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

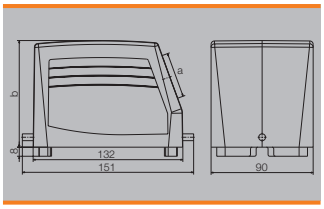
## Housing selection RockStar® IP65
## Size 12

For additional housings, refer to chapter D for IP65

### Hood

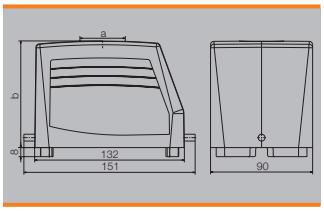
#### Plug housing, cable entry sideways

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




#### Plug housing, cable entry at top

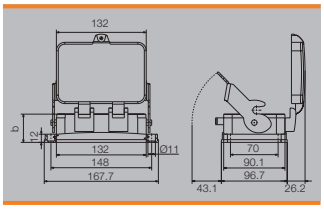
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 32 | w. threading | | 94 | HDC 48B TOLU 1M32G | 1788350000 |
| M 50 | w. threading | | 94 | HDC 48B TOLU 1M50G | 1788330000 |




### Base

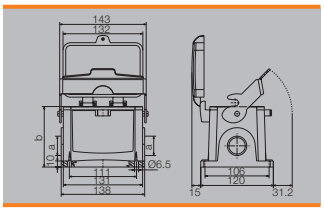
#### Bulkhead housing

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



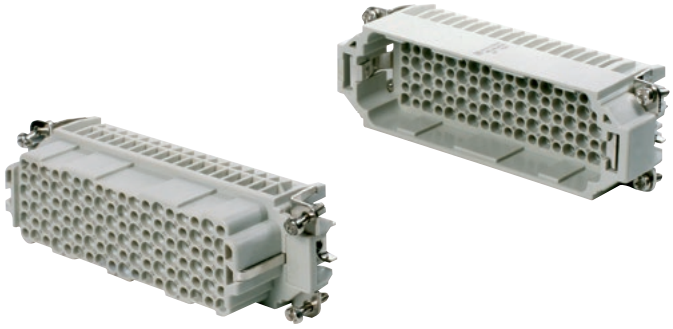

#### Base housing

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



# HDD series

Effective: These inserts are specially developed for crimp and fibre-optic contacts and provide a packing density of up to 216 poles.



## Technical data

| | |
|---|---|
| **Standards/approvals** | |
| Standards | DIN EN 61984<br>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 | ≥ $10^{10}$ Ω |
| Material | Glass-fibre reinforced PC (in UL list and approved for railway applications) |
| Temperature range | -40 °C to +125 °C |
| Flammability to UL 94 | V-0 |
| Mechanical service life | |
| – Plugging cycles Ag - Surface | ≥ 500 |
| – Plugging cycles Au - Surface | ≥ 500 |
| Contact resistance | |
| Crimp connection | ≤ 4 mΩ |
| **Contacts/Material** | |
| Sockets and plug-in contact | Copper alloy |
| Surface | Passivated silver, or gold-plated |
| Crimp connection | |
| – Flexible conductor connection | 0.14 – 2.5 mm² (AWG 26 – 14) |
| – Stripping length | 8.0 mm |
| PE connection | |
| – Clamping range | 0.5 – 2.5 mm² |
| – solid/stranded | 0.5 – 2.5 mm² / 0.5 – 2.5 mm² |
| – flexible/flexible with wire end ferrule, DIN 46228 pt. 1 | 0.5 – 2.5 mm² / 0.5 – 2.5 mm² |
| – AWG conductor | AWG 20 – 14 |
| – Stripping length | 10 mm |
| – Clamping torque | 1.2 – 1.5 Nm |
| – Blade dimensions | SD 0.8 x 4 mm or PZ1 |

**Note:**

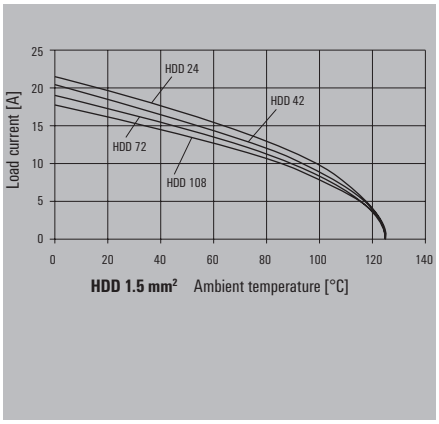
When used properly and as designated, the listed connectors may not be connected or disconnected if there is a live voltage or load!

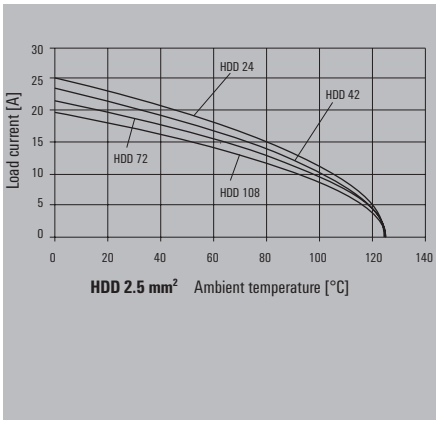
## Overview

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

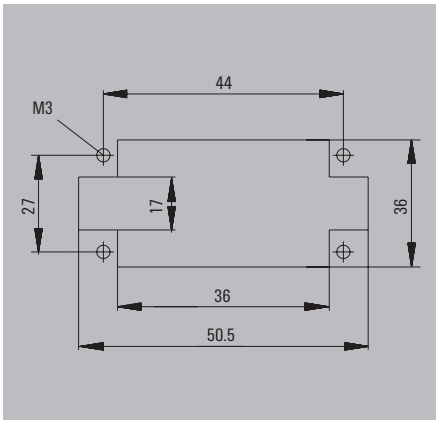
## 250 V, 10 A, size 3

24 + ⏚

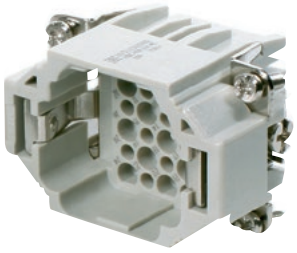


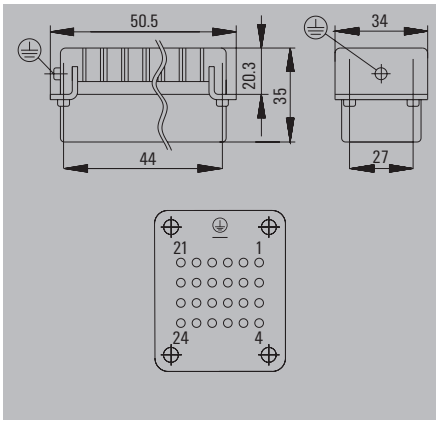




### Installation cut-out




### Male





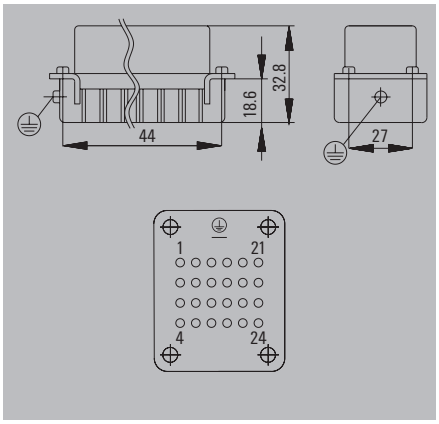

### Ordering data

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

### Accessories

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

### Female




### Ordering data

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

### Accessories

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

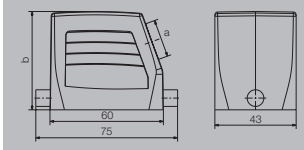
## Housing selection RockStar® IP65
## Size 3

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

## Hood

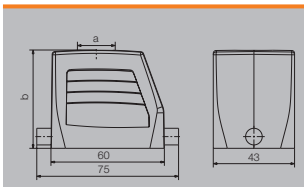
### Plug housing, cable entry sideways

| 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

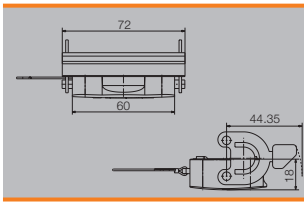
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 20 | w. threading | | 52 | HDC 06B TOLU 1M20G | 1788120000 |
| M 25 | w. threading | | 52 | HDC 06B TOLU 1M25G | 1788110000 |
| M 25 | w. threading | | 72 | HDC 16D TOLU 1M25G | 1787500000 |
| M 32 | w. threading | | 72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




### Cover

| Version | Type | Order No. |
|---|---|---|
| For hoods | HDC 06B DMDL 1LB | 1665210000 |
| For hoods | HDC 06B DMDL 1LB N | 2559730000 |

**Note** Note: N = Plastic locking lever with stainless steel inlay

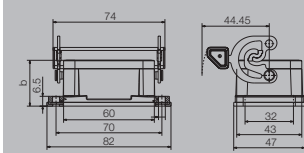



## Base

### Bulkhead housing

| | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| | | without cover | 29.3 | HDC 06B ALU | 1202100000 |
| | | | 29.3 | HDC 06B ALU N | 2488560000 |
| | | with cover | 29.3 | HDC 06B ADLU | 1202500000 |
| | | with cover | 29.3 | HDC 06B ADLU N | 2559320000 |

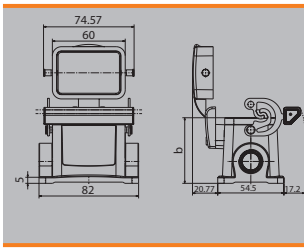
**Note** Note: N = Plastic locking lever with stainless steel inlay




### Base housing

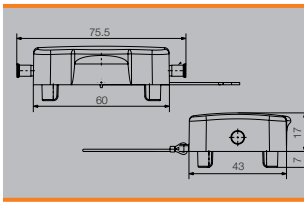
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 20 | w. threading | | | HDC 06B SLU 1M20G N | 2637080000 |
| M 20 | w. threading | with cover | 54 | HDC 06B SDLU 1M20G N | 2560720000 |
| M 20 | w. threading | | 54 | HDC 06B SLU 2M20G | 1788140000 |
| M 20 | w. threading | with cover | 54 | HDC 06B SDLU 2M20G | 1788170000 |
| M 25 | w. threading | | 54 | HDC 06B SLU 2M25G | 1788130000 |
| M 25 | w. threading | without cover | 54 | HDC 06B SLU 2M25G N | 2560860000 |
| M 25 | w. threading | with cover | 54 | HDC 06B SDLU 2M25G | 1788160000 |
| M 25 | w. threading | with cover | 54 | HDC 06B SDLU 2M25G N | 2560830000 |

**Note** Note: N = Plastic locking lever with stainless steel inlay



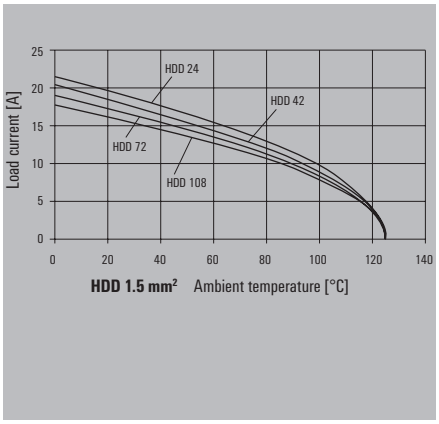

### Cover

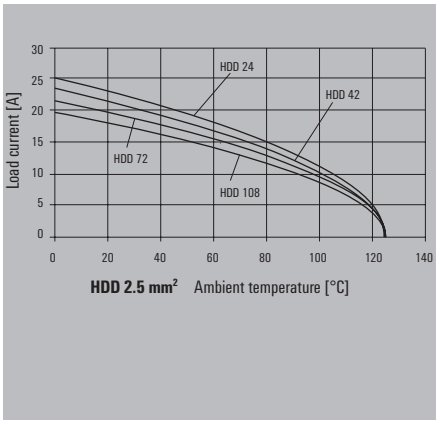
| Version | Type | Order No. |
|---|---|---|
| For bases | HDC 06B DODL 2BO | 1665200000 |



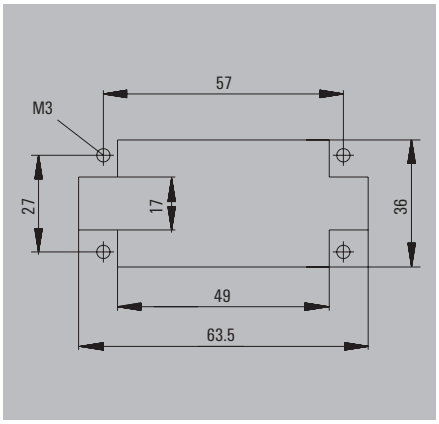
## 250 V, 10 A, size 4

42 + ⏚

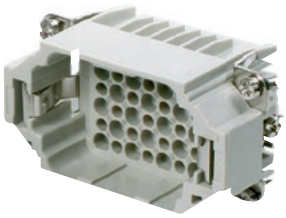


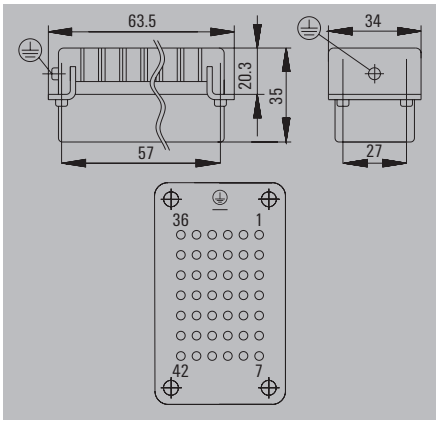




### Installation cut-out




### Male





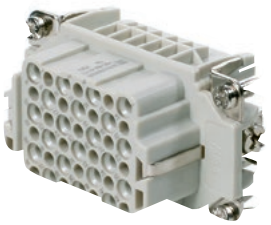

### Ordering data

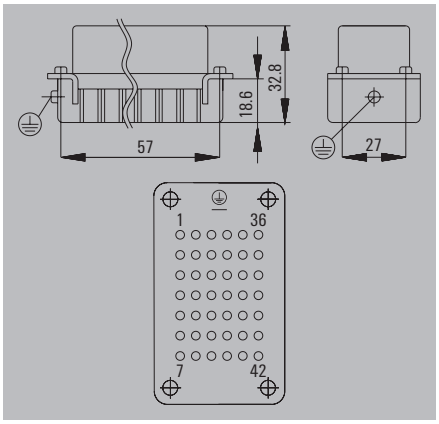
| Type of connection | Type | Qty. | Order No. |
|---|---|---|---|
| Crimp connection | HDC HDD 42 MC | 1 | **1651170000** |

### Accessories

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

### Female






### Ordering data

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

### Accessories

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

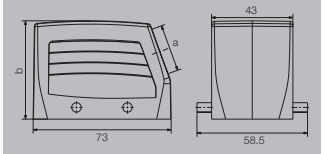
## Housing selection RockStar® IP65
## Size 4

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

## Hood

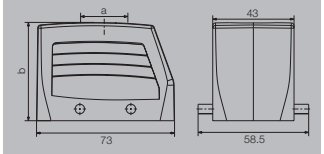
### Plug housing, cable entry sideways

| 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

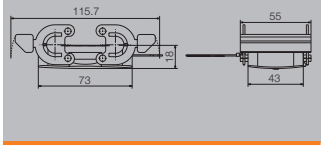
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 20 | w. threading | | 52 | HDC 10B TOBU 1M20G | 1787600000 |
| M 25 | w. threading | | 52 | HDC 10B TOBU 1M25G | 1787590000 |
| M 25 | w. threading | | 72 | HDC 24D TOBU 1M25G | 1787300000 |
| M 32 | w. threading | | 72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




### Cover

| Version | Type | Order No. |
|---|---|---|
| For hoods | HDC 10B DMDQ 2QB | 1665240000 |
| For hoods | HDC 10B DMDQ 2QB N | 2559740000 |

**Note** Note: N = Plastic locking lever with stainless steel inlay

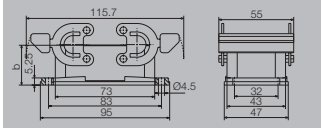



## Base

### Bulkhead housing

| | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| | | | 29.5 | HDC 10B ABU | 1205000000 |
| | | | 29.5 | HDC 10B ABU N | 2488580000 |

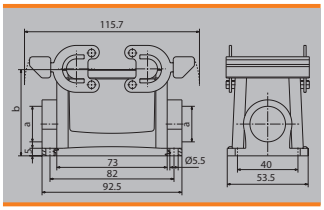
**Note** Note: N = Plastic locking lever with stainless steel inlay




### Base housing

| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 20 | w. threading | | 57 | HDC 10B SBU 1M20G N | 2560880000 |
| M 20 | w. threading | | 57 | HDC 10B SBU 2M20G | 1787640000 |
| M 20 | w. threading | | 57 | HDC 10B SBU 2M20G N | 2560890000 |
| M 25 | w. threading | | 57 | HDC 10B SBU 1M25G N | 2560900000 |
| M 25 | w. threading | | 57 | HDC 10B SBU 2M25G | 1787630000 |
| M 25 | w. threading | | 57 | HDC 10B SBU 2M25G N | 2560910000 |

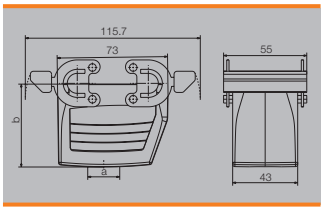
**Note** Note: N = Plastic locking lever with stainless steel inlay




### Coupling housing

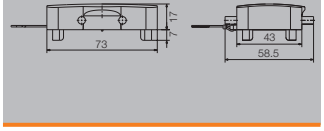
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 20 | w. threading | | 54.65 | HDC 10B KBU 1M20G | 1787720000 |
| M 20 | w. threading | | 54.65 | HDC 10B KBU 1M20G N | 2559860000 |

**Note** Note: N = Plastic locking lever with stainless steel inlay



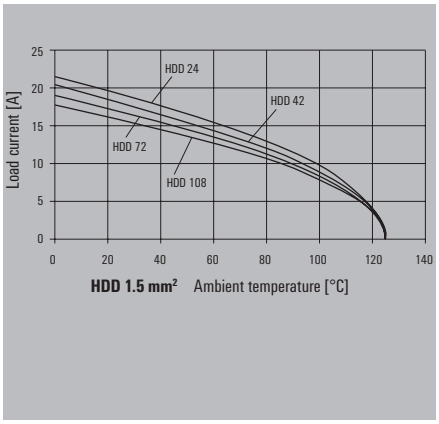

### Cover

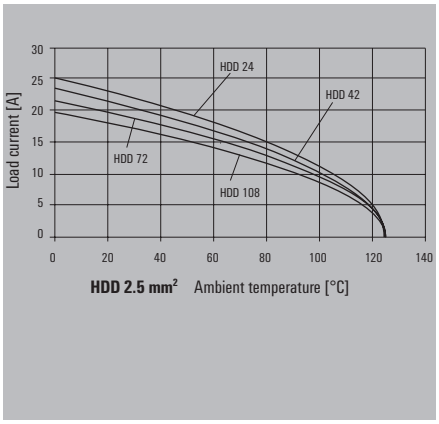
| Version | Type | Order No. |
|---|---|---|
| For bases | HDC 10B DODQ 4BO | 1665230000 |



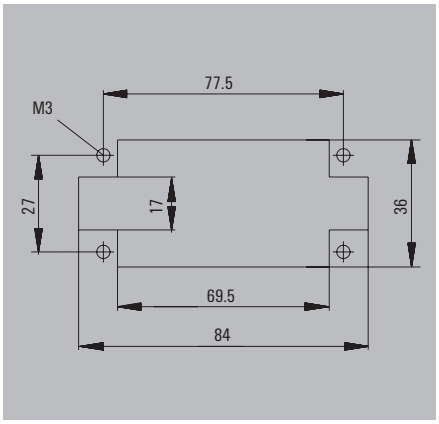
## 250 V, 10 A, size 6

72 + ⏚

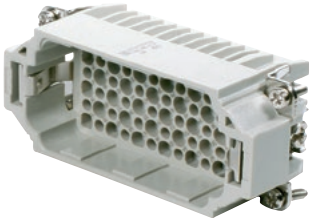


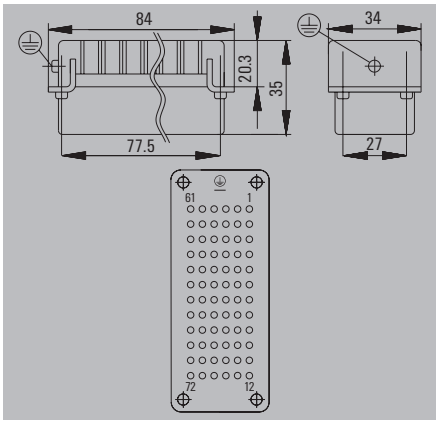




### Installation cut-out




### Male






### Ordering data

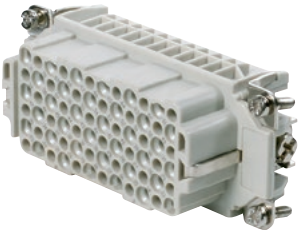
| Type of connection | Type | Qty. | Order No. |
|---|---|---|---|
| Crimp connection | HDC HDD 72 MC | 1 | 1651190000 |

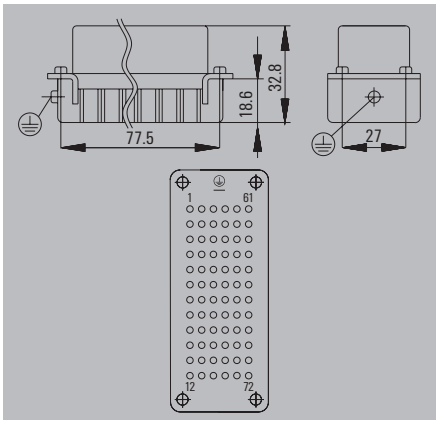
We recommend the use of guide pins and sockets.

### Accessories

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

### Female






### Ordering data

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

We recommend the use of guide pins and sockets.

### Accessories

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

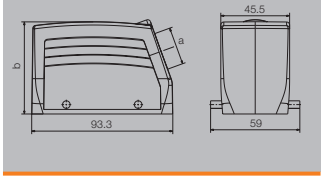
## Housing selection RockStar® IP65
## Size 6

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

## Hood

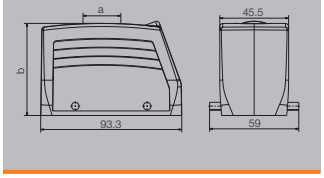
### Plug housing, cable entry sideways

| 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 |



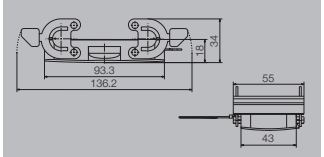

### Plug housing, cable entry at top

| 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 |

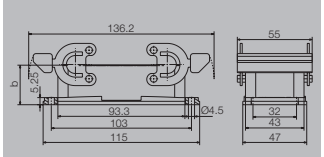



## Base

### Bulkhead housing

| | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| | | | 29 | HDC 16B ABU | 1208600000 |
| | | | 29 | HDC 16B ABU N | 2488590000 |

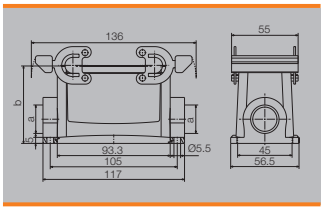
**Note** Note: N = Plastic locking lever with stainless steel inlay




### Base housing

| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 25 | w. threading | | 64 | HDC 16B SBU 1M25G N | 2560740000 |
| M 25 | w. threading | | 64 | HDC 16B SBU 2M25G | 1788240000 |
| M 25 | w. threading | | 64 | HDC 16B SBU 2M25G N | 2560930000 |
| M 25 | w. threading | | 84 | HDC 40D SBU 2M25G | 1787120000 |
| PG 21 | w. threading | | 84 | HDC 40D SBU 1M32G N | 2561030000 |
| M 32 | w. threading | | 84 | HDC 40D SBU 2M32G | 1787110000 |

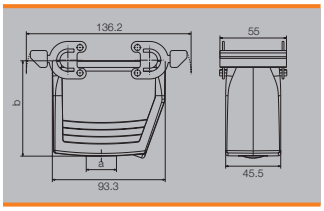
**Note** Note: N = Plastic locking lever with stainless steel inlay




### Coupling housing

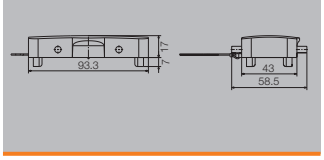
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 25 | w. threading | | 78.6 | HDC 40D KBU 1M25G | 1787200000 |
| PG 29 | w. threading | | 79 | HDC 40D KBU 1M25G N | 2559890000 |
| M 32 | w. threading | | 78.6 | HDC 40D KBU 1M32G | 1787190000 |
| PG 29 | w. threading | | 79 | HDC 40D KBU 1M32G N | 2559900000 |
| PG 29 | w. threading | | 79 | HDC 40D KBU 2M32G N | 2545510000 |

**Note** Note: N = Plastic locking lever with stainless steel inlay



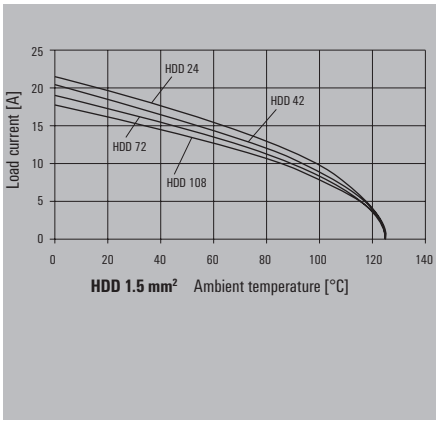

### Cover

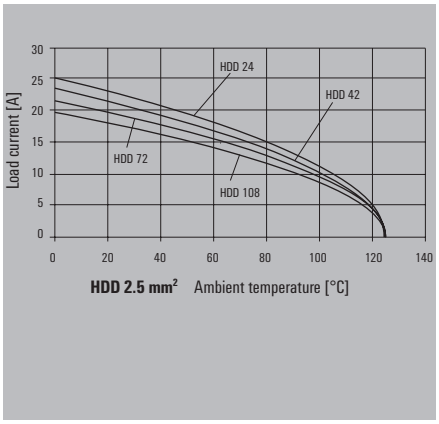
| Version | Type | Order No. |
|---|---|---|
| For bases | HDC 16B DODQ 4BO | 1665260000 |



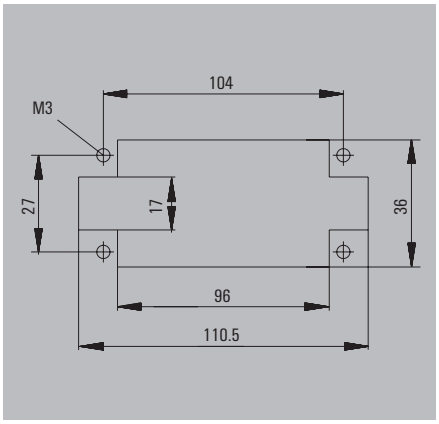
## 250 V, 10 A, size 8

108 + ⏚

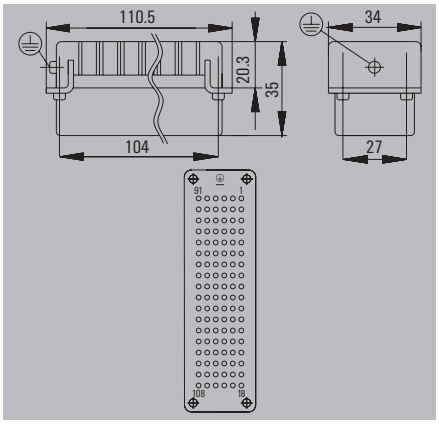



### Installation cut-out




### Male




### Ordering data

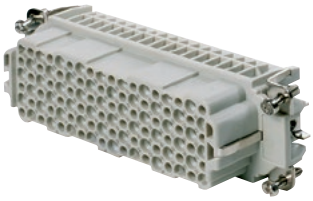
| Type of connection | Type | Qty. | Order No. |
|---|---|---|---|
| Crimp connection | HDC HDD 108 MC | 1 | 1651210000 |

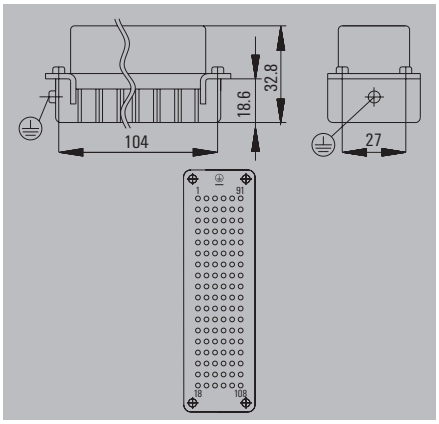
We recommend the use of guide pins and sockets.

### Accessories

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

### Female






### Ordering data

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

We recommend the use of guide pins and sockets.

### Accessories

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

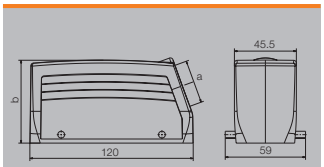
## Housing selection RockStar® IP65
## Size 8

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

## Hood

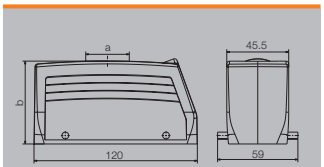
### Plug housing, cable entry sideways

| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 25 | w. threading | | 62.58 | HDC 24B TSBU 1M25G | 1787760000 |
| M 25 | w. threading | | 76 | HDC 64D TSBU 1M25G | 1786780000 |
| M 32 | w. threading | | 62.58 | HDC 24B TSBU 1M32G | 1787750000 |
| M 32 | w. threading | | 76 | HDC 64D TSBU 1M32G | 1786770000 |




### Plug housing, cable entry at top

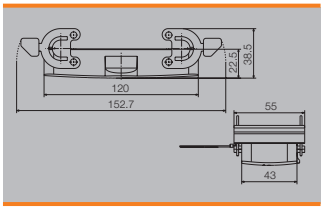
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 25 | w. threading | | 62.58 | HDC 24B TOBU 1M25G | 1787820000 |
| M 32 | w. threading | | 62.58 | HDC 24B TOBU 1M32G | 1787810000 |
| M 32 | w. threading | | 76 | HDC 64D TOBU 1M32G | 1786830000 |




### Cover

| Version | Type | Order No. |
|---|---|---|
| For hoods | HDC 24B DMDQ 2QB | 1665640000 |
| For hoods | HDC 24B DMDQ 2QB N | 2559760000 |

**Note** Note: N = Plastic locking lever with stainless steel inlay

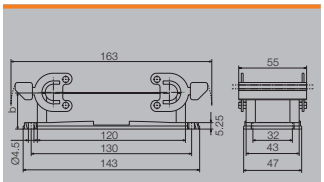



## Base

### Bulkhead housing

| | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| | | | 29.5 | HDC 24B ABU | 1212400000 |
| | | | 29.5 | HDC 24B ABU N | 2488600000 |

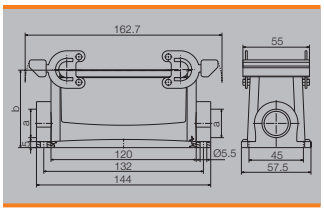
**Note** Note: N = Plastic locking lever with stainless steel inlay




### Base housing

| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 25 | w. threading | | 64 | HDC 24B SBU 2M25G | 1787870000 |
| M 25 | w. threading | | 64 | HDC 24B SBU 2M25G N | 2560970000 |
| M 25 | w. threading | | 84 | HDC 64D SBU 2M25G | 1786890000 |
| M 32 | w. threading | | 84 | HDC 64D SBU 2M25G N | 2561060000 |
| M 32 | w. threading | | 84 | HDC 64D SBU 1M32G N | 2561050000 |
| M 32 | w. threading | | 84 | HDC 64D SBU 2M32G | 1786880000 |

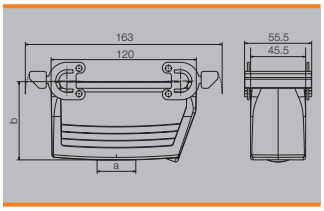
**Note** Note: N = Plastic locking lever with stainless steel inlay




### Coupling housing

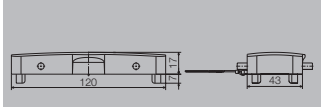
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 25 | w. threading | | 65 | HDC 24B KBU 1M25G | 1787920000 |
| M 25 | w. threading | | 65 | HDC 24B KBU 1M25G N | 2559870000 |
| M 32 | w. threading | | 65 | HDC 24B KBU 2M32G N | 2559880000 |
| M 32 | w. threading | | 79 | HDC 64D KBU 1M32G | 1786960000 |
| M 32 | w. threading | | 79 | HDC 64D KBU 1M32G N | 2559910000 |

**Note** Note: N = Plastic locking lever with stainless steel inlay



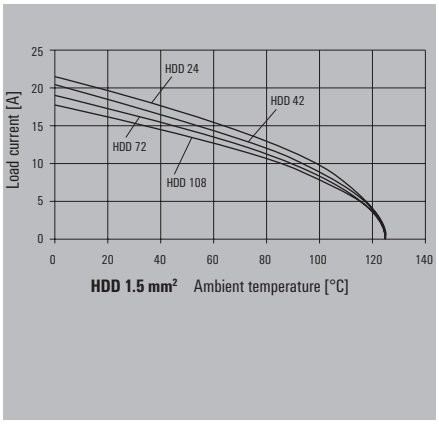

### Cover

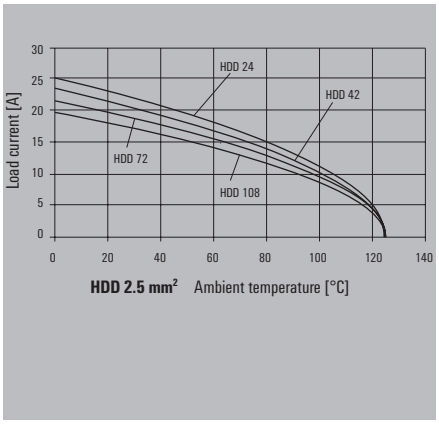
| Version | Type | Order No. |
|---|---|---|
| For bases | HDC 24B DODQ 4BO | 1665630000 |



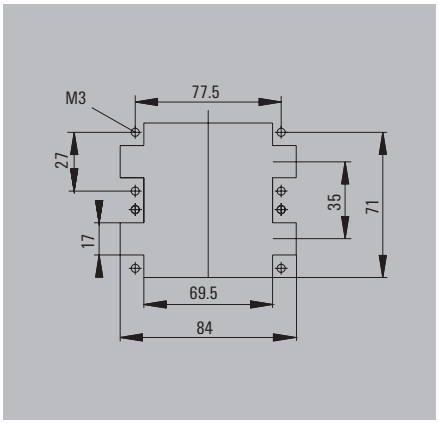
## 250 V, 10 A, size 10

144 + ⏚

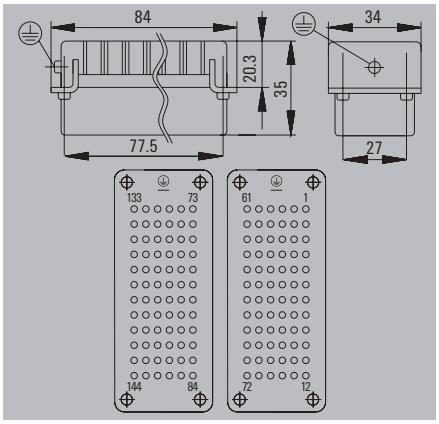



### Installation cut-out




### Male




### Ordering data

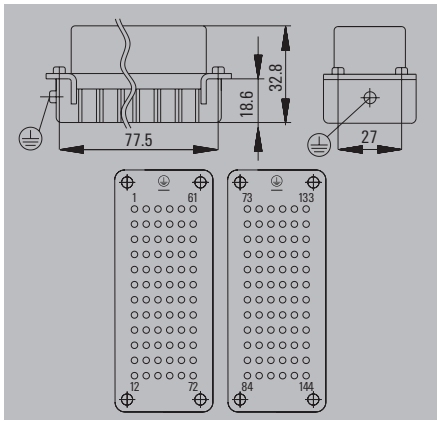
| Type of connection | Type | Qty. | Order No. |
|---|---|---|---|
| Crimp connection | HDC HDD 72 MC | 1 | 1651190000 |
| Crimp connection | HDC HDD 72 MC 73-144 | 1 | 1651240000 |

We recommend the use of guide pins and sockets.

### Accessories

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

### Female




### Ordering data

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

We recommend the use of guide pins and sockets.

### Accessories

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

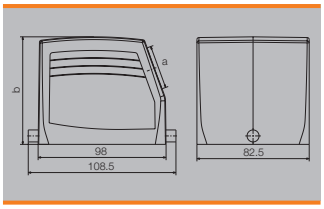
## Housing selection RockStar® IP65
## Size 10

For additional housings, refer to chapter D for IP65

### Hood

**Plug housing, cable entry sideways**

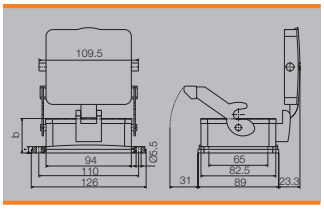
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 32 | w. threading | | 79 | HDC 32B TSLU 1M32G | 1788420000 |




### Base

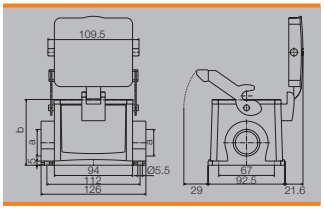
**Bulkhead housing**

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



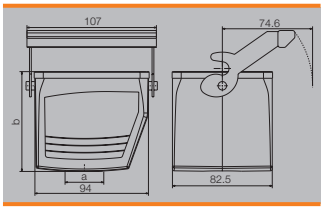

**Base housing**

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



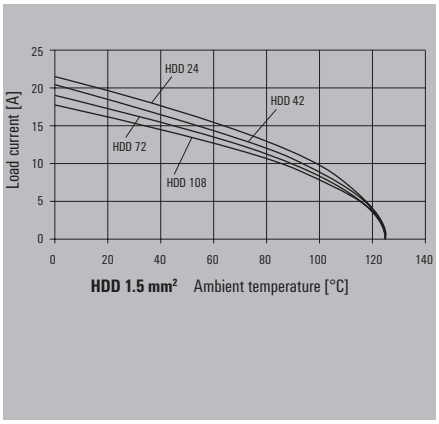

**Coupling housing**

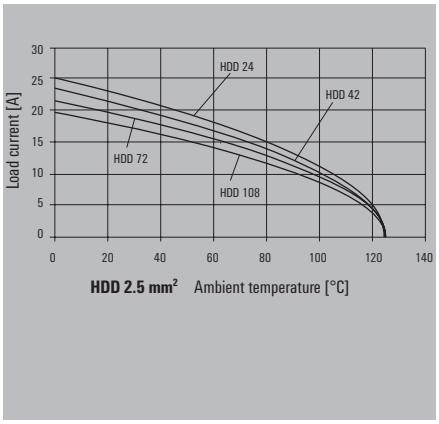
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 32 | w. threading | | 83 | HDC 32B KLU 1M32G | 1788500000 |



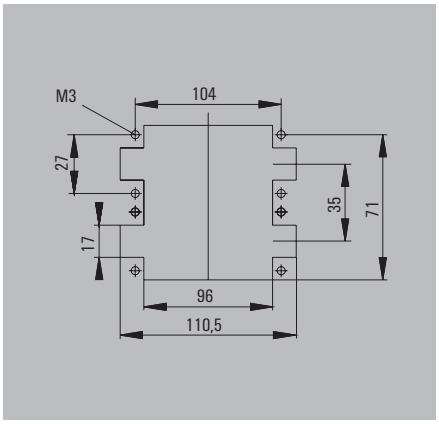
## 250 V, 10 A, size 12

## 216 + ⏚

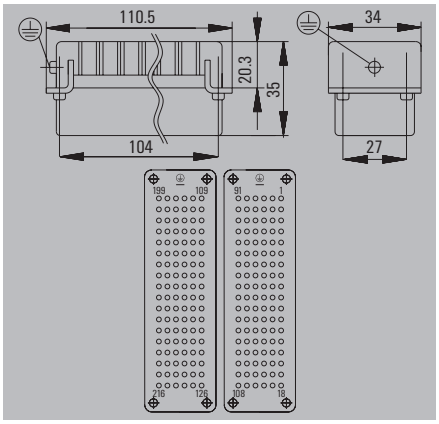



### Installation cut-out




### Male




### Ordering data

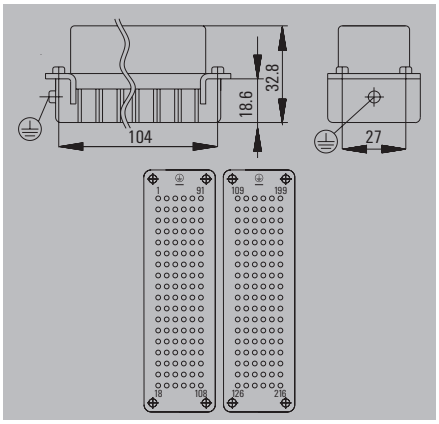
| Type of connection | Type | Qty. | Order No. |
|---|---|---|---|
| Crimp connection | HDC HDD 108 MC | 1 | 1651210000 |
| Crimp connection | HDC HDD 108 MC 109-216 | 1 | 1651280000 |

We recommend the use of guide pins and sockets.

### Accessories

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

### Female




### Ordering data

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

We recommend the use of guide pins and sockets.

### Accessories

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

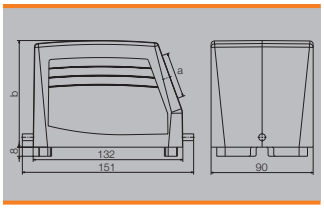
## Housing selection RockStar® IP65
## Size 12

For additional housings, refer to chapter D for IP65

### Hood

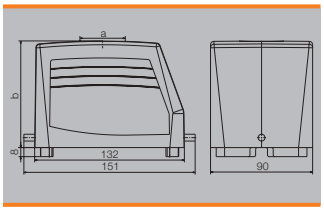
#### Plug housing, cable entry sideways

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




#### Plug housing, cable entry at top

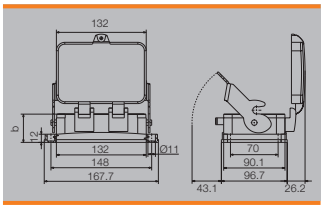
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 32 | w. threading | | 94 | HDC 48B TOLU 1M32G | 1788350000 |
| M 50 | w. threading | | 94 | HDC 48B TOLU 1M50G | 1788330000 |




### Base

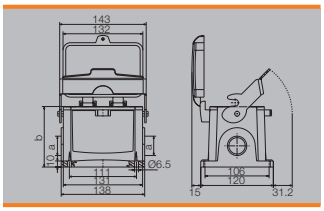
#### Bulkhead housing

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



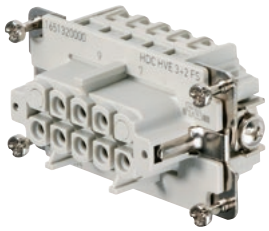

#### Base housing

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



# HVE series

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<br>DIN EN 60664-1 |
| Approvals | UL/CSA** |
| **Inserts** | |
| No. of poles | 3 + 2, 6 + 2, 10 + 2 |
| Rated voltage | 830 V |
| Rated voltage to UL/CSA | 600 V |
| Rated current | 20 A |
| Rated impulse withstand voltage | 8 kV |
| Pollution severity | 3 (1000 V / 8 kV / 2) |
| Insulation resistance | ≥ 1010 Ω |
| Material | Glass-fibre reinforced PC (in UL list and approved for railway applications) |
| Temperature range | -40 °C to +125 °C |
| Flammability to UL 94 | V-0 |
| Mechanical service life | |
| – Plugging cycles Ag - Surface | ≥ 500 |
| Contact resistance | ≤ 2 mΩ |
| **Contacts/Material** | |
| Contacts | Copper alloy |
| Surface | Passivated silver |
| Clamping range/Stripping length | |
| – Screw connection | 0.5 – 2.5 mm2 (AWG 20 – 14) / 8 mm |
| – Tension clamp connection | 0.25 – 2.5 mm2 (AWG 24 – 14) / 8 mm |
| Clamping torque | |
| – Screw connection | 0.5 – 0.55 Nm |
| SD blades | |
| – Screw connection | 0.6 x 3.5 oder PZ0 |
| – Tension clamp connection | 0.5 x 3 oder 0.6 x 3.5 |
| PE connection | |
| – Clamping range | 0.5 – 4 $mm^2$ |
| – solid/stranded | 0.5 – 4 $mm^2$ / 0.5 – 4 $mm^2$ |
| – flexible/flexible with wire end ferrule, DIN 46228 pt. 1 | 0.5 – 4 $mm^2$ / 0.5 – 4 $mm^2$ |
| – AWG conductor | AWG 20 – 12 |
| – Stripping length | 10 mm |
| – Clamping torque | 1.2 – 1.5 Nm |
| – Blade dimensions | SD 0.8 x 4 mm oder PZ1 |

**Note:**

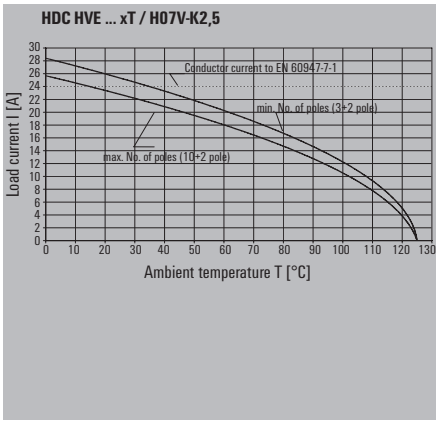
When used properly and as designated, the listed connectors may not be connected or disconnected if there is a live voltage or load! Rated voltage determined on the basis of DIN EN 61984 section 6.19.2.2.
500 V for signal contact.
** For screw connection

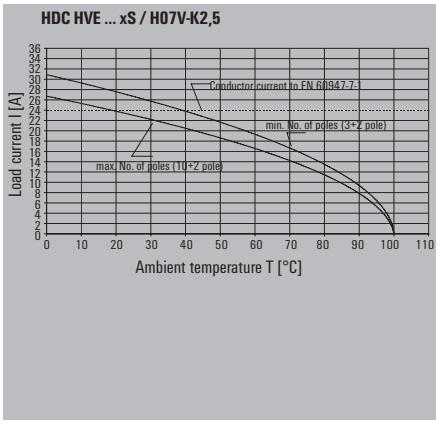
## Overview

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

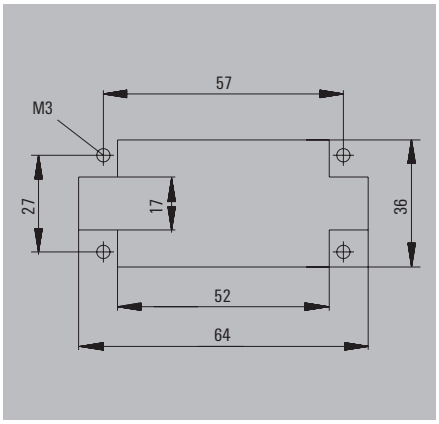
## 830 V, 20 A, size 4

3 + 2 + ⏚

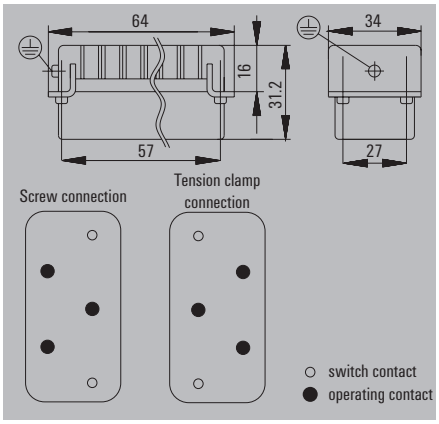



### Installation cut-out



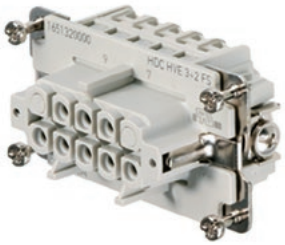

### Male

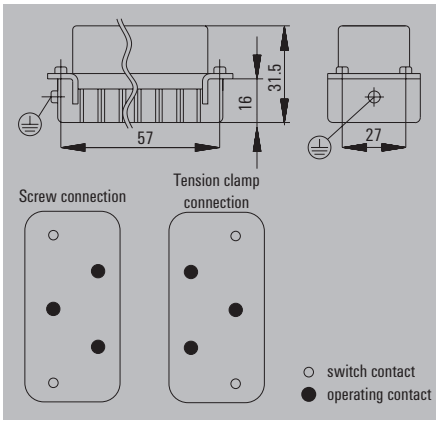



### Ordering data

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

### Female






### Ordering data

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

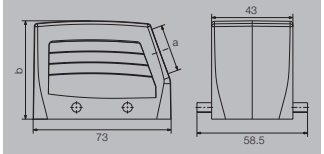
## Housing selection RockStar® IP65
## Size 4

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

## Hood

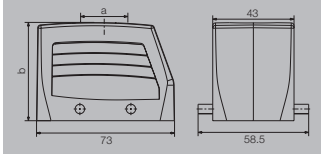
### Plug housing, cable entry sideways

| 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

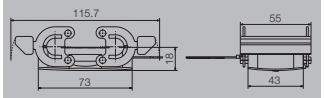
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 20 | w. threading | | 52 | HDC 10B TOBU 1M20G | 1787600000 |
| M 25 | w. threading | | 52 | HDC 10B TOBU 1M25G | 1787590000 |
| M 25 | w. threading | | 72 | HDC 24D TOBU 1M25G | 1787300000 |
| M 32 | w. threading | | 72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




### Cover

| Version | Type | Order No. |
|---|---|---|
| For hoods | HDC 10B DMDQ 2QB | 1665240000 |
| For hoods | HDC 10B DMDQ 2QB N | 2559740000 |

**Note** Note: N = Plastic locking lever with stainless steel inlay

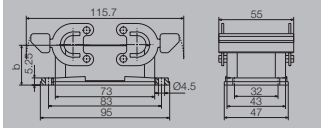



## Base

### Bulkhead housing

| | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| | | | 29.5 | HDC 10B ABU | 1205000000 |
| | | | 29.5 | HDC 10B ABU N | 2488580000 |

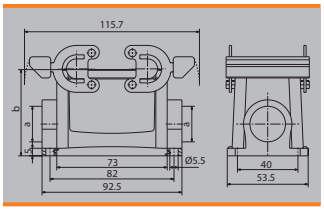
**Note** Note: N = Plastic locking lever with stainless steel inlay




### Base housing

| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 20 | w. threading | | 57 | HDC 10B SBU 1M20G N | 2560880000 |
| M 20 | w. threading | | 57 | HDC 10B SBU 2M20G | 1787640000 |
| M 20 | w. threading | | 57 | HDC 10B SBU 2M20G N | 2560890000 |
| M 25 | w. threading | | 57 | HDC 10B SBU 1M25G N | 2560900000 |
| M 25 | w. threading | | 57 | HDC 10B SBU 2M25G | 1787630000 |
| M 25 | w. threading | | 57 | HDC 10B SBU 2M25G N | 2560910000 |

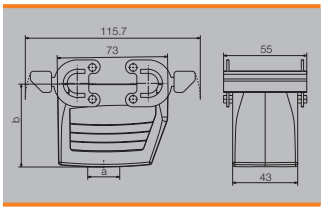
**Note** Note: N = Plastic locking lever with stainless steel inlay




### Coupling housing

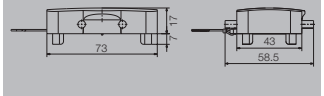
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 20 | w. threading | | 54.65 | HDC 10B KBU 1M20G | 1787720000 |
| M 20 | w. threading | | 54.65 | HDC 10B KBU 1M20G N | 2559860000 |

**Note** Note: N = Plastic locking lever with stainless steel inlay



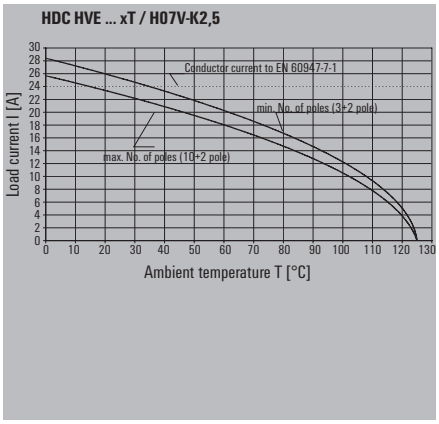

### Cover

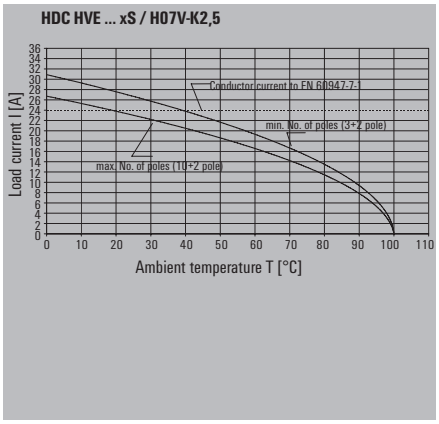
| Version | Type | Order No. |
|---|---|---|
| For bases | HDC 10B DODQ 4BO | 1665230000 |



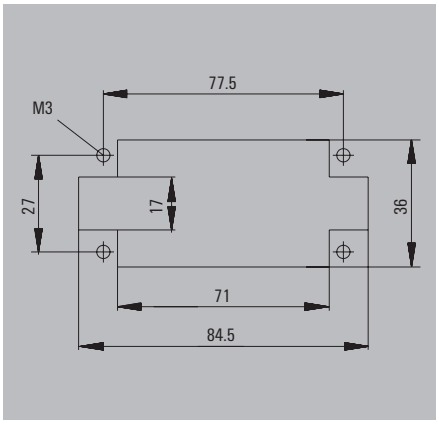
## 830 V, 20 A, size 6

6 + 2 + ⏚

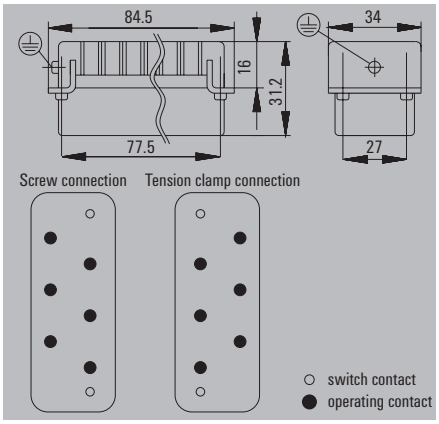



### Installation cut-out



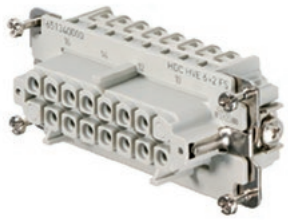

### Male

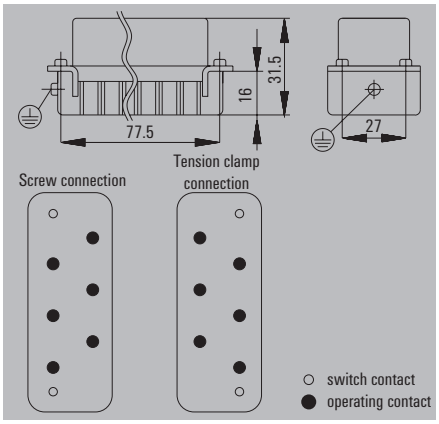



### Ordering data

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

### Female






### Ordering data

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

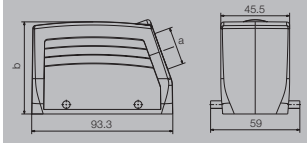
## Housing selection RockStar® IP65
## Size 6

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

## Hood

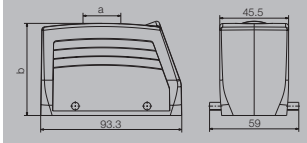
### Plug housing, cable entry sideways

| 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 |



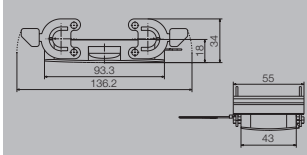

### Plug housing, cable entry at top

| 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 |

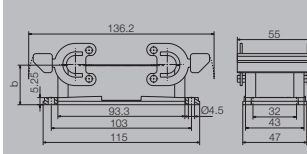



## Base

### Bulkhead housing

| | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| | | | 29 | HDC 16B ABU | 1208600000 |
| | | | 29 | HDC 16B ABU N | 2488590000 |

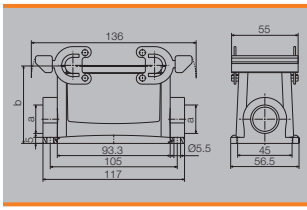
**Note** Note: N = Plastic locking lever with stainless steel inlay




### Base housing

| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 25 | w. threading | | 64 | HDC 16B SBU 1M25G N | 2560740000 |
| M 25 | w. threading | | 64 | HDC 16B SBU 2M25G | 1788240000 |
| M 25 | w. threading | | 64 | HDC 16B SBU 2M25G N | 2560930000 |
| M 25 | w. threading | | 84 | HDC 40D SBU 2M25G | 1787120000 |
| PG 21 | w. threading | | 84 | HDC 40D SBU 1M32G N | 2561030000 |
| M 32 | w. threading | | 84 | HDC 40D SBU 2M32G | 1787110000 |

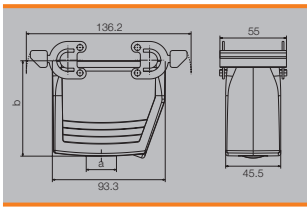
**Note** Note: N = Plastic locking lever with stainless steel inlay




### Coupling housing

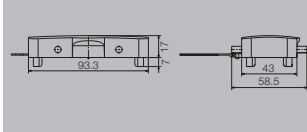
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 25 | w. threading | | 78.6 | HDC 40D KBU 1M25G | 1787200000 |
| PG 29 | w. threading | | 79 | HDC 40D KBU 1M25G N | 2559890000 |
| M 32 | w. threading | | 78.6 | HDC 40D KBU 1M32G | 1787190000 |
| PG 29 | w. threading | | 79 | HDC 40D KBU 1M32G N | 2559900000 |
| PG 29 | w. threading | | 79 | HDC 40D KBU 2M32G N | 2545510000 |

**Note** Note: N = Plastic locking lever with stainless steel inlay



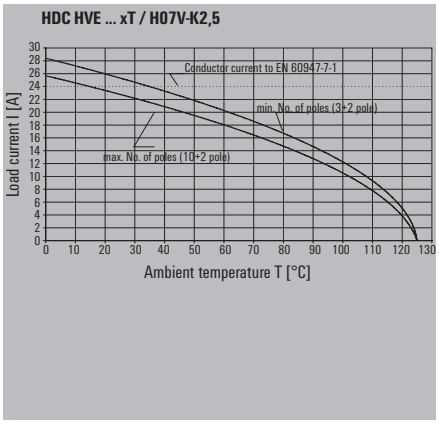

### Cover

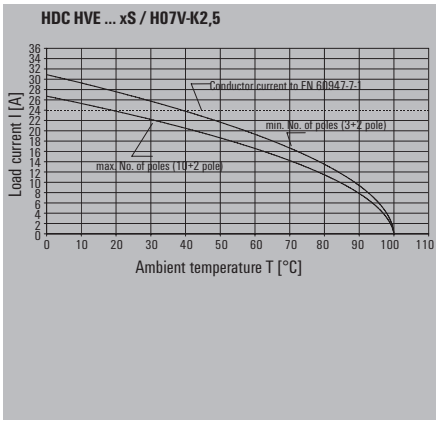
| Version | Type | Order No. |
|---|---|---|
| For bases | HDC 16B DODQ 4BO | 1665260000 |



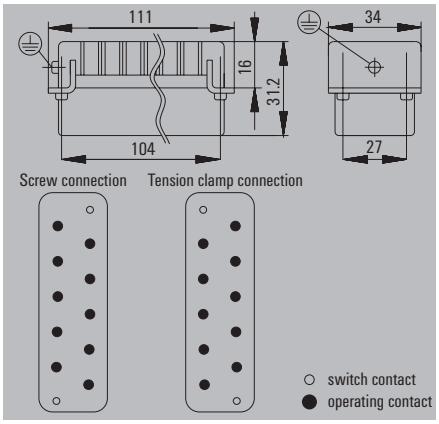
## 830 V, 20 A, size 8

**10 + 2 + ⏚**



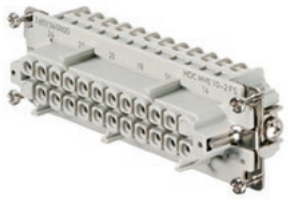

### Male

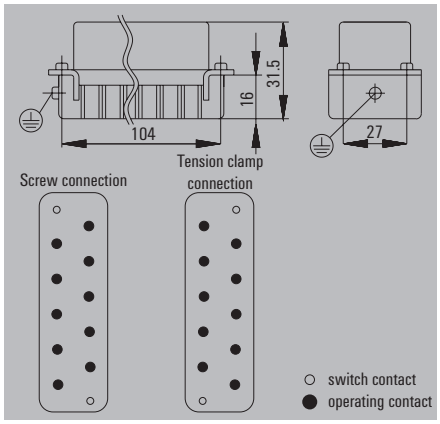



### Ordering data

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

### Female

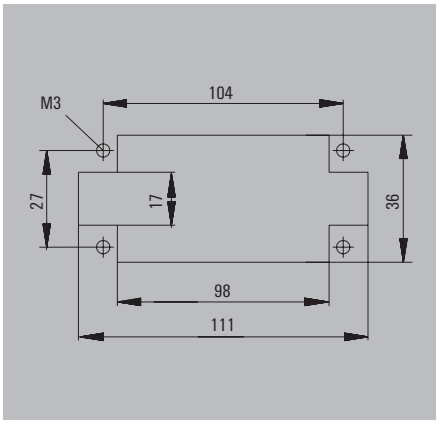





### Ordering data

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

### Installation cut-out



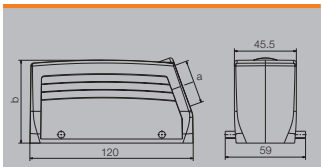
## Housing selection RockStar® IP65
## Size 8

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

## Hood

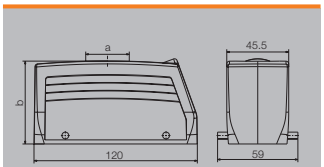
### Plug housing, cable entry sideways

| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 25 | w. threading | | 62.58 | HDC 24B TSBU 1M25G | 1787760000 |
| M 25 | w. threading | | 76 | HDC 64D TSBU 1M25G | 1786780000 |
| M 32 | w. threading | | 62.58 | HDC 24B TSBU 1M32G | 1787750000 |
| M 32 | w. threading | | 76 | HDC 64D TSBU 1M32G | 1786770000 |




### Plug housing, cable entry at top

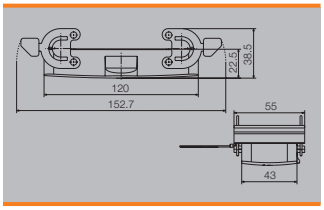
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 25 | w. threading | | 62.58 | HDC 24B TOBU 1M25G | 1787820000 |
| M 32 | w. threading | | 62.58 | HDC 24B TOBU 1M32G | 1787810000 |
| M 32 | w. threading | | 76 | HDC 64D TOBU 1M32G | 1786830000 |




### Cover

| Version | Type | Order No. |
|---|---|---|
| For hoods | HDC 24B DMDQ 2QB | 1665640000 |
| For hoods | HDC 24B DMDQ 2QB N | 2559760000 |

**Note** Note: N = Plastic locking lever with stainless steel inlay

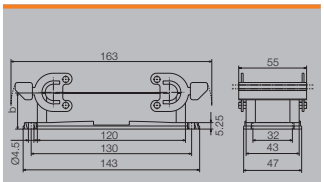



## Base

### Bulkhead housing

| | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| | | | 29.5 | HDC 24B ABU | 1212400000 |
| | | | 29.5 | HDC 24B ABU N | 2488600000 |

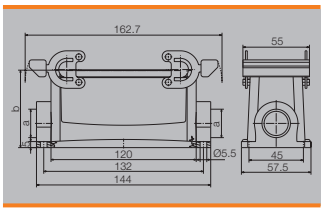
**Note** Note: N = Plastic locking lever with stainless steel inlay




### Base housing

| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 25 | w. threading | | 64 | HDC 24B SBU 2M25G | 1787870000 |
| M 25 | w. threading | | 64 | HDC 24B SBU 2M25G N | 2560970000 |
| M 25 | w. threading | | 84 | HDC 64D SBU 2M25G | 1786890000 |
| M 32 | w. threading | | 84 | HDC 64D SBU 2M25G N | 2561060000 |
| M 32 | w. threading | | 84 | HDC 64D SBU 1M32G N | 2561050000 |
| M 32 | w. threading | | 84 | HDC 64D SBU 2M32G | 1786880000 |

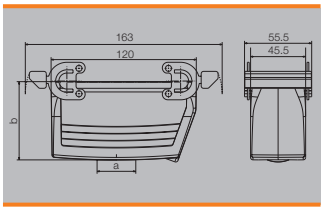
**Note** Note: N = Plastic locking lever with stainless steel inlay




### Coupling housing

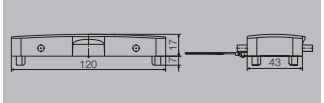
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 25 | w. threading | | 65 | HDC 24B KBU 1M25G | 1787920000 |
| M 25 | w. threading | | 65 | HDC 24B KBU 1M25G N | 2559870000 |
| M 32 | w. threading | | 65 | HDC 24B KBU 2M32G N | 2559880000 |
| M 32 | w. threading | | 79 | HDC 64D KBU 1M32G | 1786960000 |
| M 32 | w. threading | | 79 | HDC 64D KBU 1M32G N | 2559910000 |

**Note** Note: N = Plastic locking lever with stainless steel inlay




### Cover

| Version | Type | Order No. |
|---|---|---|
| For bases | HDC 24B DODQ 4BO | 1665630000 |



# HSB series

Safe: Our HSB inserts are equipped with screw connections, including wire protection springs. They transmit currents up to 35 A per contact.

## Technical data

| | |
|---|---|
| **Standards/approvals** | |
| Standards | DIN EN 61984<br>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 | ≥ $10^{10}$ Ω |
| Material | Glass-fibre reinforced PC (in UL list and approved for railway applications) |
| Temperature range | -40 °C to +125 °C |
| Flammability to UL 94 | V-0 |
| Mechanical service life | |
| – Plugging cycles Ag-Surface | ≥ 500 |
| – Plugging cycles Au-Surface | ≥ 500 |
| Contact resistance | |
| Screw connection | ≤ 2 mΩ |
| **Contacts/Material** | |
| Sockets and plug-in contact | Copper alloy |
| Surface | Passivated silver |
| Screw connection | |
| – Clamping range | 0.5 – 6 mm² (AWG 20 – 10) |
| – Stripping length | 11 mm |
| – flex. with wire end ferrule acc. to DIN 46228 pt. 1 | 4 mm² |
| 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 mm² |
| – solid/stranded | 0.5 – 6 mm² / 0.5 – 6 mm² |
| – flexible/flexible with wire end ferrule, DIN 46228 pt. 1 | 0.5 – 6 mm² / 0.5 – 6 mm² |
| – AWG conductor | AWG 20 – 10 |
| – Stripping length | 10 mm |
| – Clamping torque | 2 – 2.5 Nm |
| – Blade dimensions | SD 1 x 5.5 mm or PZ2 |

**Note:**

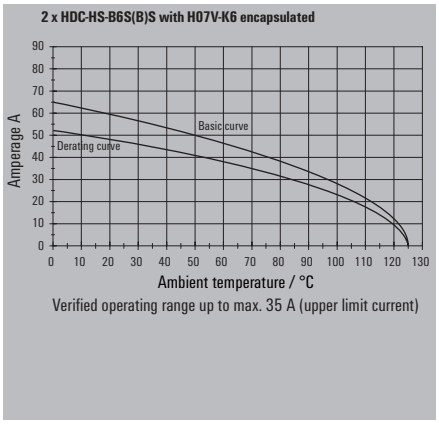
When used properly and as designated, the listed connectors may not be connected or disconnected if there is a live voltage or load! When connecting flexible conductor with a screw connection, you should use ferrules, according to DIN 46228, section 1.

## Overview

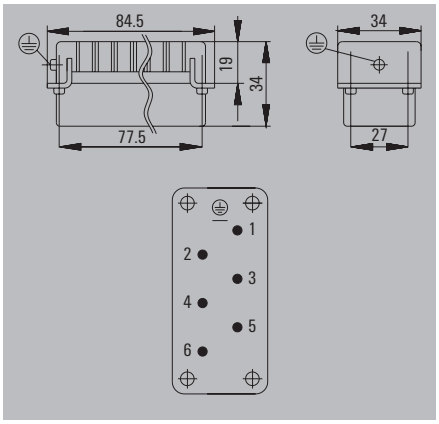
| | | Size | Rated voltage | Rated current | No. of poles | Tension clamp connection | TOP connection | Screw conn. with wire guard spring | Crimp connection | PUSH IN connection | Page |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 6 | 400 V | 35 A | 6 + ⏚ | | | • | | | B.90 |
| | | 10 |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

## 400 V, 35 A, size 6

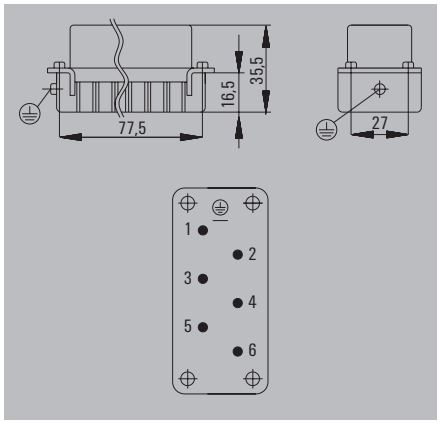
6 + ⏚




### Male




### Female



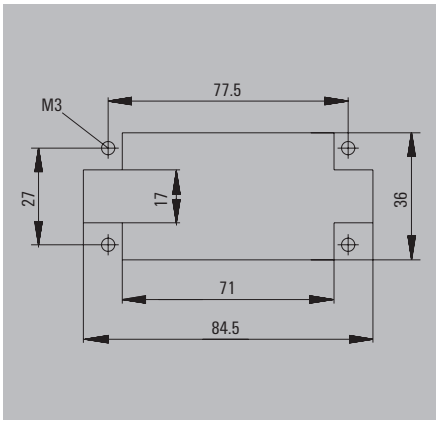

### Ordering data

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

### Ordering data

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

### Installation cut-out



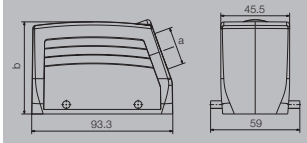
## Housing selection RockStar® IP65
## Size 6

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

## Hood

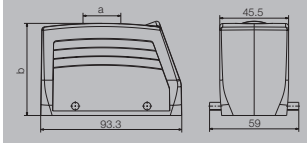
### Plug housing, cable entry sideways

| 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 |



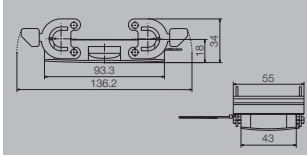

### Plug housing, cable entry at top

| 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 |

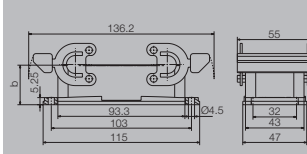



## Base

### Bulkhead housing

| | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| | | | 29 | HDC 16B ABU | 1208600000 |
| | | | 29 | HDC 16B ABU N | 2488590000 |

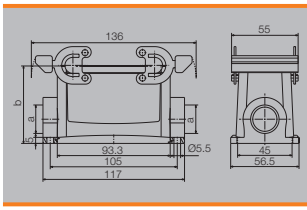
**Note** Note: N = Plastic locking lever with stainless steel inlay




### Base housing

| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 25 | w. threading | | 64 | HDC 16B SBU 1M25G N | 2560740000 |
| M 25 | w. threading | | 64 | HDC 16B SBU 2M25G | 1788240000 |
| M 25 | w. threading | | 64 | HDC 16B SBU 2M25G N | 2560930000 |
| M 25 | w. threading | | 84 | HDC 40D SBU 2M25G | 1787120000 |
| PG 21 | w. threading | | 84 | HDC 40D SBU 1M32G N | 2561030000 |
| M 32 | w. threading | | 84 | HDC 40D SBU 2M32G | 1787110000 |

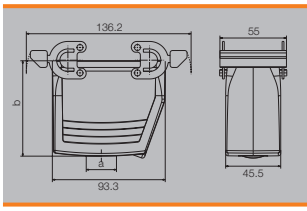
**Note** Note: N = Plastic locking lever with stainless steel inlay




### Coupling housing

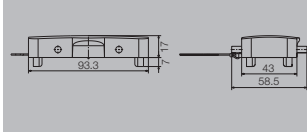
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 25 | w. threading | | 78.6 | HDC 40D KBU 1M25G | 1787200000 |
| PG 29 | w. threading | | 79 | HDC 40D KBU 1M25G N | 2559890000 |
| M 32 | w. threading | | 78.6 | HDC 40D KBU 1M32G | 1787190000 |
| PG 29 | w. threading | | 79 | HDC 40D KBU 1M32G N | 2559900000 |
| PG 29 | w. threading | | 79 | HDC 40D KBU 2M32G N | 2545510000 |

**Note** Note: N = Plastic locking lever with stainless steel inlay



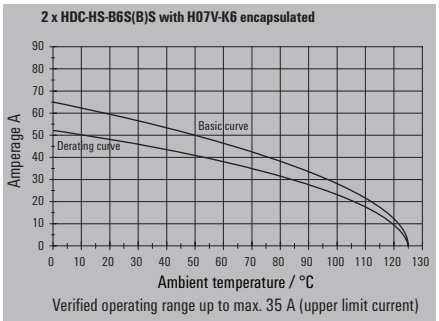

### Cover

| Version | Type | Order No. |
|---|---|---|
| For bases | HDC 16B DODQ 4BO | 1665260000 |

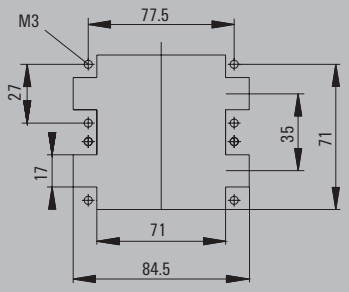


## 400 V, 35 A, size 10

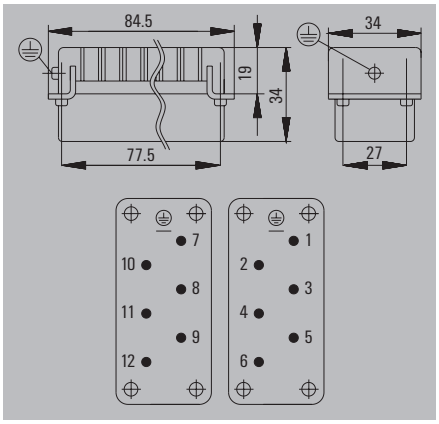
12 + ⏚




### Installation cut-out



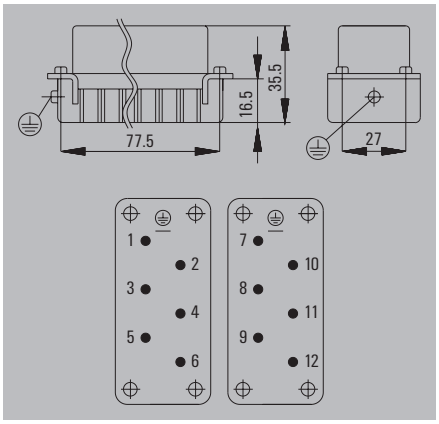

### Male




#### Ordering data

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

### Female




#### Ordering data

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

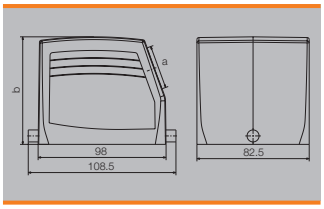
## Housing selection RockStar® IP65
## Size 10

For additional housings, refer to chapter D for IP65

### Hood

#### Plug housing, cable entry sideways

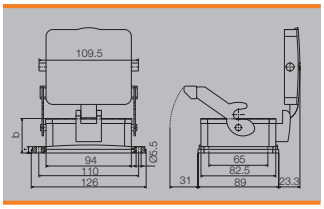
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 32 | w. threading | | 79 | HDC 32B TSLU 1M32G | 1788420000 |




### Base

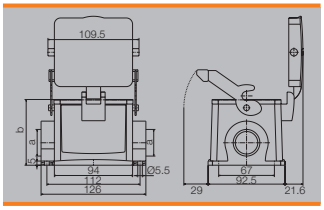
#### Bulkhead housing

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



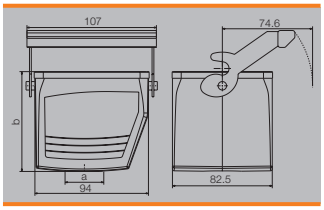

#### Base housing

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




#### Coupling housing

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



# HQ series

Flexible: Our HQ inserts are the first choice when you need to implement particularly compact yet hybrid wiring solutions.

## Technical data

| | HQ 5 | HQ 7 | HQ 12 | HQ 8 | HQ 4/2 | HQ 17 |
|---|---|---|---|---|---|---|
| **Standards/approvals** | | | | | | |
| Standards | DIN EN 61984 | DIN EN 61984 | DIN EN 61984 | DIN EN 61984 | DIN EN 61984 | DIN EN 61984 |
| | DIN EN 60664-1 | DIN EN 60664-1 | DIN EN 60664-1 | DIN EN 60664-1 | DIN EN 60664-1 | DIN EN 60664-1 |
| Approvals | UL/CSA | UL/CSA | UL/CSA | UL/CSA/ISO 23570 | UL/CSA/ISO 23570 | UL/CSA |
| **Inserts** | | | | | | |
| No. of poles | 5 + PE | 7 + PE | 12 + PE | 8 + PE | 4 Leistung, 2 Signale + PE | 17 + PE |
| Connection system | Crimp, HE-contact | Crimp, HD-contact | Crimp, HD-contact | Crimp, HE-contact | Crimp, HX-/HD-contact | Crimp, HD-contact |
| Rated voltage | 250 V | 400 V | 400 V | 500 V | 690 V, 250 V | 250 V |
| Rated voltage to UL/CSA | 600 V | 600 V | 600 V | 600 V | 600 V | 600 V |
| Rated current | 16 A | 10 A | 10 A | 16 A | 40/10 A | 10 A |
| Rated impulse withstand voltage | 4 kV | 6 kV | 6 kV | 6 kV | 6 kV/4 kV | 4 kV |
| Pollution severity | 3 | 3 | 3 | 3 | 3 | 2 |
| Insulation resistance | ≥ $10^{19}$ Ω | ≥ $10^{19}$ Ω | ≥ $10^{19}$ Ω | ≥ $10^{19}$ Ω | ≥ $10^{19}$ Ω | ≥ $10^{19}$ Ω |
| Material | PC glass-fibre reinforced | PC glass-fibre reinforced | PA glass-fibre reinforced | PC glass-fibre reinforced | PC glass-fibre reinforced | PC glasfaserverstärkt |
| Temperature range | -40° to +125° C | -40° to +125° C | -40° to +125° C | -40° to +125° C | -40° to +125° C | -40° to +125° C |
| Flammability to UL 94 | V-0 | V-0 | V-0 | V-0 | V-0 | V-0 |
| Mechanical service life | | | | | | |
| – Plugging cycles Ag - Surface | ≥ 500 | ≥ 500 | ≥ 500 | ≥ 500 | ≥ 500 | ≥ 500 |
| – Plugging cycles Au - Surface | ≥ 500 | ≥ 500 | ≥ 500 | ≥ 500 | ≥ 500 | ≥ 500 |
| Volume (continuity) resistance of crimp connection | ≤ 2 mΩ | ≤ 4 mΩ | ≤ 4 mΩ | ≤ 2 mΩ | ≤ 1 mΩ/≤ 4 mΩ | ≤ 4 mΩ |
| **Contacts/Material** | | | | | | |
| Sockets and plug-in contact | Copper alloy | Copper alloy | Copper alloy | Copper alloy | Copper alloy | Copper alloy |
| Surface | Passivated silver | Passivated silver/gold | Passivated silver/gold | Passivated silver | Passivated silver/gold | Passivated silver/gold |
| Crimp connection | | | | | | |
| – Performance power range | 0.5 – 4 mm² (AWG 20 – 12) | | | 0.5 – 4 mm² (AWG 20...12) | 1.5 – 6 mm² (AWG 16...10) | |
| – Signal range | | 0.14 – 2.5 mm² (AWG 26 – 14) | 0.14 – 2.5 mm² (AWG 26 – 14) | | 0.14 – 2.5 mm² (AWG 26 – 14) | 0.14 – 2.5 mm² (AWG 26 – 14) |
| – Stripping length | 7.5 mm | 8.0 mm | 8.0 mm | 7.5 mm | 9 mm/8 mm | 8.0 mm |
| PE connection | | | | Crimp | Crimp | Crimp |
| – Clamping range | 0,5 – 2,5 mm² | 0,14 – 2,5 mm² | 0.14 – 2.5 mm² | 0.5 – 4 mm² | 1.5 – 6 mm² | 0.14 – 2.5 mm² |
| – solid core/stranded | 0.5 – 2.5 mm² / 0.5 – 2.5 mm² | 0.14 – 2.5 mm² | 0.14 – 2.5 mm² | 0.5 – 4 mm² | | |
| – flexible/flexible with ferrule | 0.5 – 2.5 mm² / 0.5 – 2.5 mm² | 0.14 – 2.5 mm² | 0.14 – 2.5 mm² | 0.5 – 4 mm² | | |
| – AWG conductor | AWG 20 – 14 | AWG 26 – 14 | AWG 26 – 14 | AWG 20 – 12 | AWG 16 – 10 | AWG 26 – 14 |
| – Stripping length | 10 mm | 5 mm | 5 mm | 7.5 mm | 9 mm | 8 mm |
| – Clamping torque | 0.5 – 0.55 Nm | 0.5 – 0.55 Nm | 0.5...0.55 Nm | | | |
| – Blade dimensions | SD 0.8 x 4 mm | SD 0.8 x 4 mm | SD 0.8 x 4 mm | | | |
| **Accessories and tools** | | | | | | |
| Crimping tools used | 9205430000 CTIN CM 1.6/2.5 | 9205430000 CTIN CM 1.6/2.5 | 9205430000 CTIN CM 1.6/2.5 | 9205430000 CTIN CM 1.6/2.5 | 9205430000 CTIN CM 1.6/2.5 | 9205430000 C TIN CM 1.6/2.5 |
| | 9018490000 CTX CM 1.6/2.5 | 9018490000 CTX CM 1.6/2.5 | 9018490000 CTX CM 1.6/2.5 | 9018490000 CTX CM 1.6/2.5 | 9205440000 CTIN CM 3.6 | 9018490000 CTX CM 1.6/2.5 |
| | | | | | 9018490000 CTX CM 1.6/2.5 | |
| Screwdriver | | | | Version Crosshead, shape H | Version Crosshead, shape H | Version Crosshead, shape H |
| | | | | Sheet metal screw: ISO 7049-ST 2.9 x 9.5-F-H | Sheet metal screw: ISO 7049-ST 2.9 x 9.5-F-H | Sheet metal screw: ISO 7049-ST 2.9 x 9.5-F-H |
| Removal tool for crimps | 1866750000 Removal Tool HE | 1866730000 Removal Tool HD | 1866730000 Removal Tool HD | 1866750000 Removal Tool HE | 1002990000 Removal Tool HX | 1866730000 Removal Tool HD |
| | | | | | 1866730000 Removal Tool HD | |

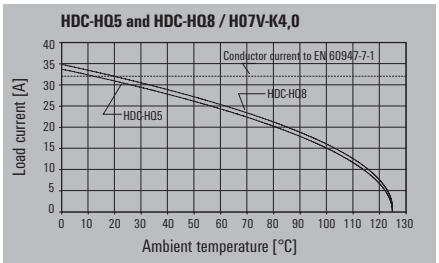
**Note**:
When used properly and as designated, the listed connectors may not be connected or disconnected if there is a live voltage or load!

## Overview

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

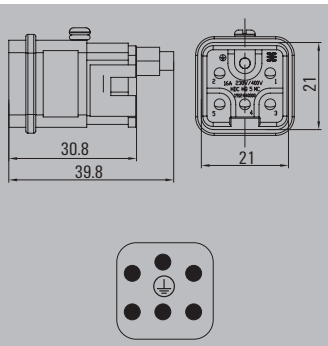
## 250 V, 16 A, size 1

5 + ⏚




### Installation cut-out

## Male



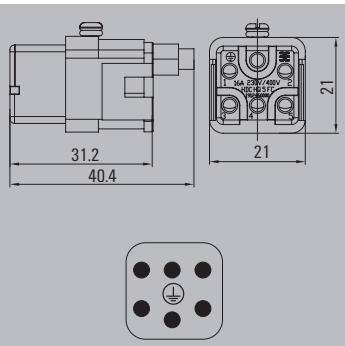

### Ordering data

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

### Accessories

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

## Female




### Ordering data

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

### Accessories

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

## Housing selection RockStar® IP65
## Size 1

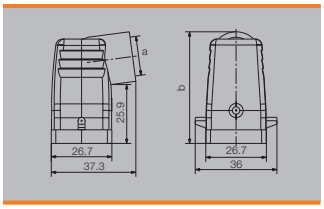
**For additional housings, refer to**
**Chapter D for IP65 / Chapter F for IP68 EMC**

## Hood

### Plug housing, cable entry sideways

**Material:** diecast aluminium

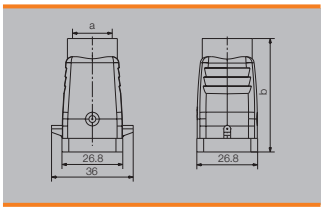
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 20 | w. threading | | 49.2 | HDC 04A TWLU 1M20G | 1788810000 |




### 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 |

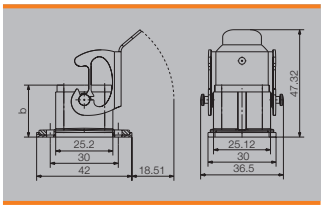



## Base

### Bulkhead housing

**Material:** diecast aluminium

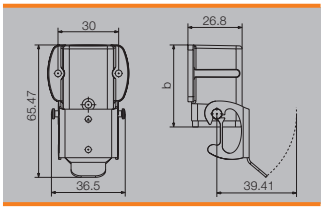
| | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| | | | 23 | HDC 04A ALU | 1497600000 |




### Base housing

**Material:** diecast aluminium

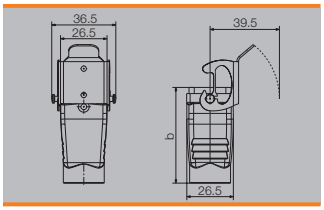
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 20 | w. threading | | 41.5 | HDC 04A SLU 1M20G | 1788830000 |




### Coupling housing

**Material:** diecast aluminium

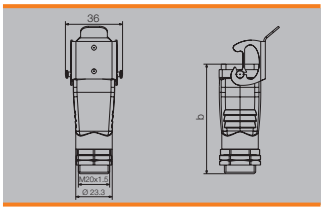
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 20 | w. threading | | 53.5 | HDC 04A KOLU 1M20G | 1788840000 |




### Screw mounting housing

**Material:** diecast aluminium

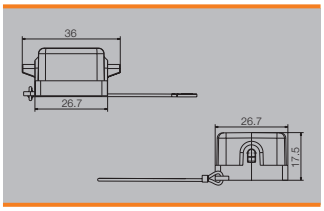
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 20 | w. threading | | 54 | HDC 04A ELU 1M20G | 1900320000 |




### Cover

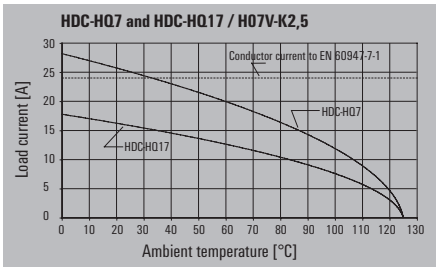
**Material:** diecast aluminium

| Version | Type | Order No. |
|---|---|---|
| with female | HDC 04A DMDL 2BO | 1665750000 |
| with male | HDC 04A DODL 2BO | 1665740000 |



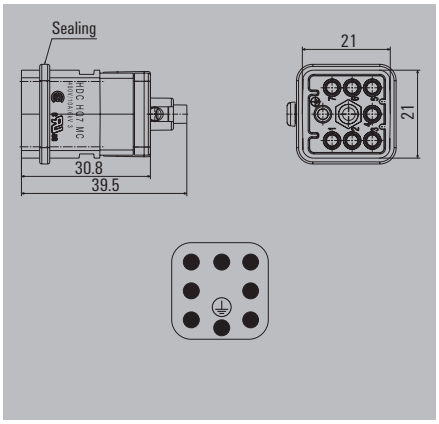
## 400 V, 10 A, size 1

7 + ⏚




### Installation cut-out

### Male



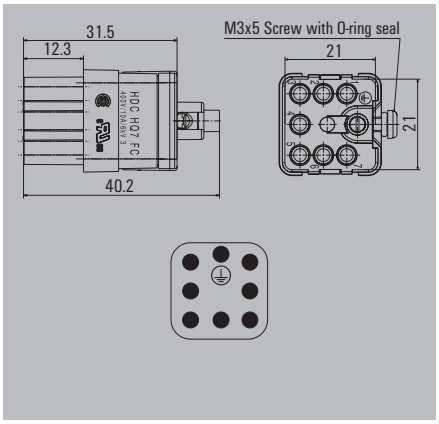

### Ordering data

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

### Accessories

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

### Female




### Ordering data

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

### Accessories

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

## Housing selection RockStar® IP65
## Size 1

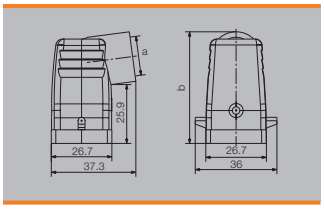
**For additional housings, refer to**
**Chapter D for IP65 / Chapter F for IP68 EMC**

## Hood

### Plug housing, cable entry sideways

**Material:** diecast aluminium

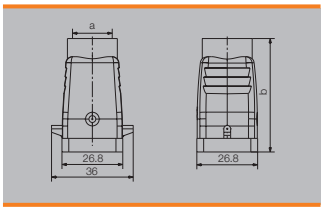
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 20 | w. threading | | 49.2 | HDC 04A TWLU 1M20G | 1788810000 |




### 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 |

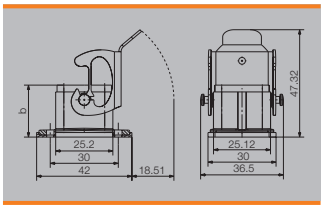



## Base

### Bulkhead housing

**Material:** diecast aluminium

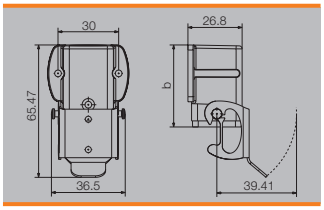
| | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| | | | 23 | HDC 04A ALU | 1497600000 |




### Base housing

**Material:** diecast aluminium

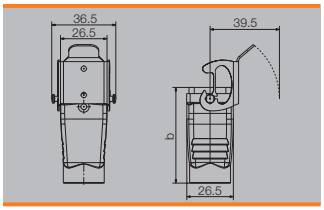
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 20 | w. threading | | 41.5 | HDC 04A SLU 1M20G | 1788830000 |




### Coupling housing

**Material:** diecast aluminium

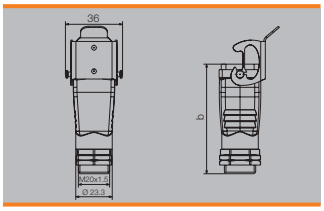
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 20 | w. threading | | 53.5 | HDC 04A KOLU 1M20G | 1788840000 |




### Screw mounting housing

**Material:** diecast aluminium

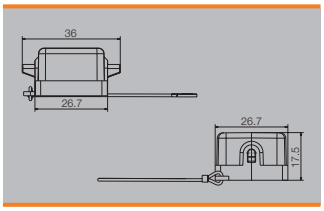
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 20 | w. threading | | 54 | HDC 04A ELU 1M20G | 1900320000 |




### Cover

**Material:** diecast aluminium

| Version | Type | Order No. |
|---|---|---|
| with female | HDC 04A DMDL 2BO | 1665750000 |
| with male | HDC 04A DODL 2BO | 1665740000 |

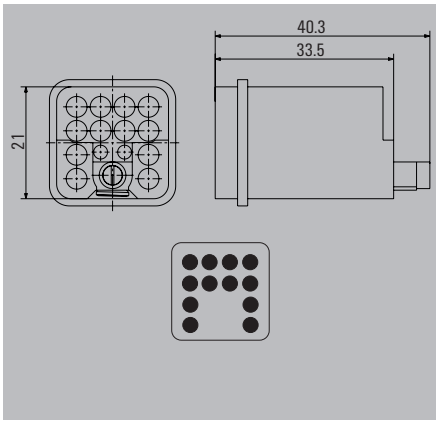


## 400 V, 10 A, size 1

12 + ⏚

### Installation cut-out

## Male



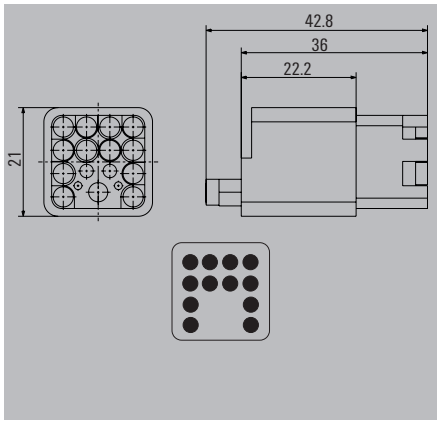

### Ordering data

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

### Accessories

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

## Female




### Ordering data

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

### Accessories

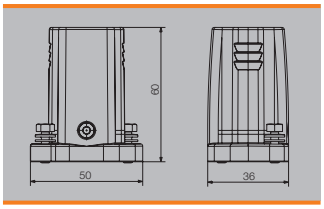
| Type | Qty. | Order No. |
|---|---|---|
| **Crimp contacts, female - gold** | | |
| HDC-C-HD-BM0.14-0.37AU | 100 | 1651670000 |
| HDC-C-HD-BM0.5AU | 100 | 1651680000 |
| HDC-C-HD-BM0.75-1.00AU | 100 | 1651690000 |
| HDC-C-HD-BM1.5AU | 100 | 1651700000 |
| HDC-C-HD-BM2.5AU | 100 | 1651710000 |
| **Crimp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

## Housing selection RockStar® IP68
## Size 1

### Hood

#### Plug housing, cable entry at top

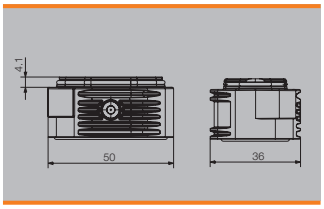
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 20 | w. threading | | | HDC IP68 04A TOS 1M20 | **1082390000** |
| M 25 | w. threading | | | HDC IP68 04A TOS 1M25G | **1513390000** |
| PG 13.5 | w. threading | | | HDC IP68 04A TOS 1PG13 | **1082410000** |




### Base

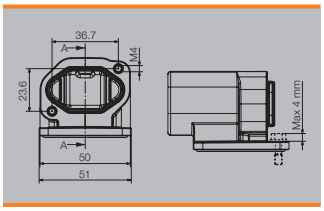
#### Bulkhead housing

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



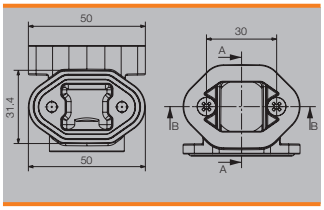

#### Angled bulkhead housing

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



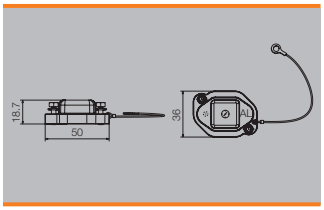

#### Adapter

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



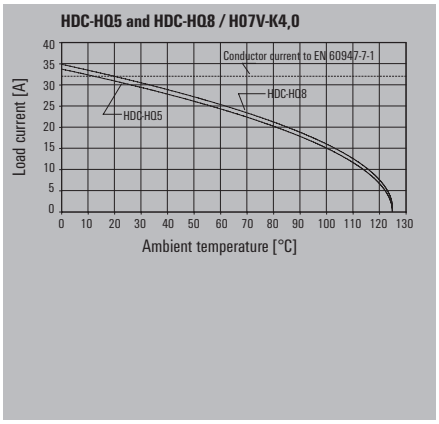

#### Cover

| Version | Type | Order No. |
|---|---|---|
| | HDC IP68 04A COVER | **1083110000** |



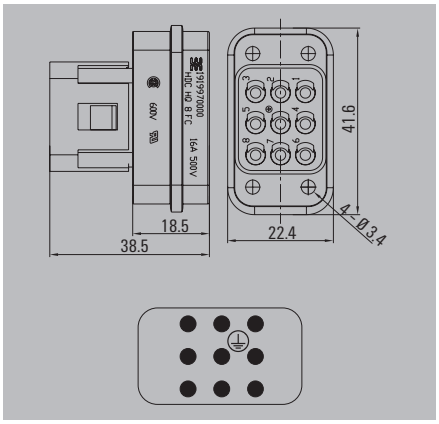
## 500 V, 16 A, size HQ

8 + ⏚




### Installation cut-out

## Male



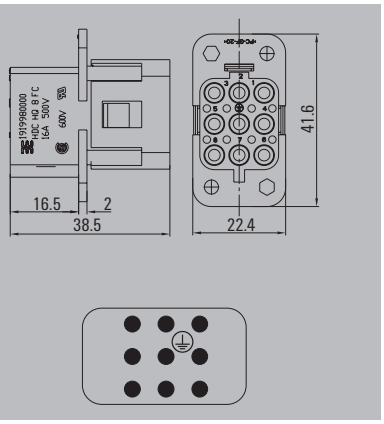

### Ordering data

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

### Accessories

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

## Female




### Ordering data

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

### Accessories

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

## Housing selection RockStar® IP65
## Size HQ

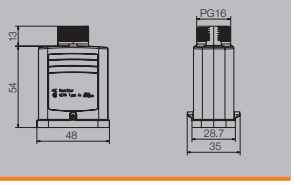
### Hood

#### Plug housing, cable entry sideways

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

#### Plug housing, cable entry at top

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




### Base

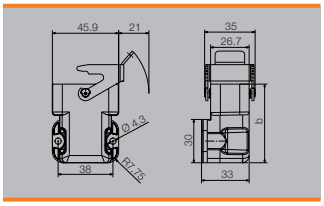
#### Bulkhead housing

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

**Note** CS: with locking bow

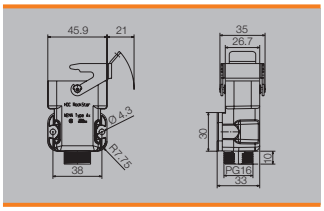
#### Bulkhead housing angled

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



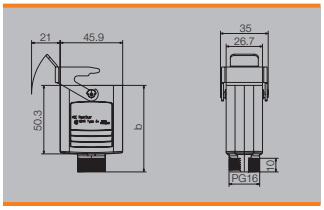

#### Base housing

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




#### Coupling housing

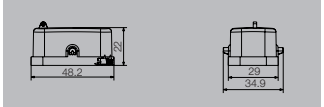
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| PG 16 | w. threading | | 63.5 | HDC HQP KOLU 1PG16 | 1003120000 |




#### Cover

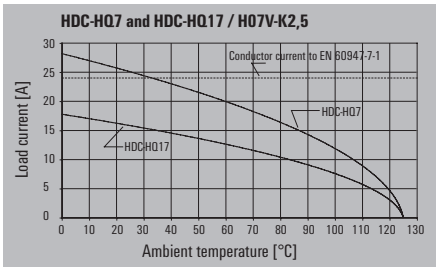
| Version | Type | Order No. |
|---|---|---|
| with female | HDC HQP DMD 2BO | 1003130000 |
| with male | HDC HQP DOD 2BO | 1003140000 |

**Note** for plastic and metal housings, for locking bow



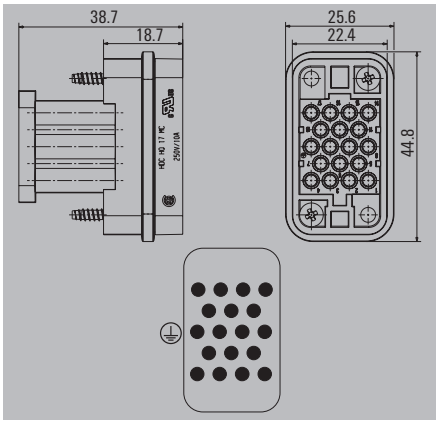
## 250 V, 10 A, size HQ

17 + ⏚




### Installation cut-out

### Male



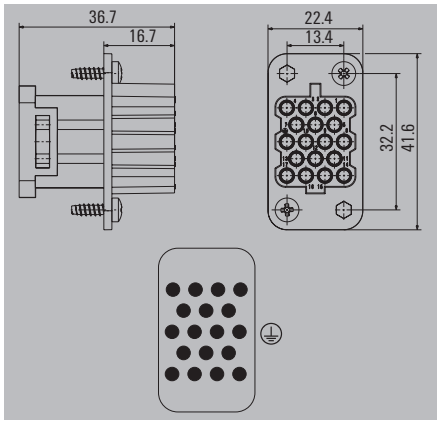

### Ordering data

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

### Accessories

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

### Female




### Ordering data

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

### Accessories

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

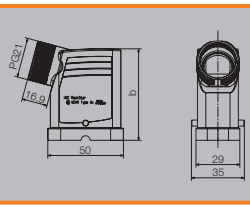
## Housing selection RockStar® IP65
## Size HQ

### Hood

**Plug housing, cable entry sideways**

**Material:** Zinc diecast

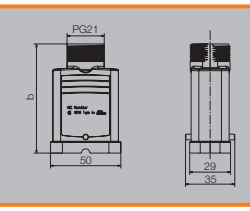
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| PG 21 | w. threading | | 60.5 | HDC HQM TSLU 1PG21 | 1003100000 |




**Plug housing, cable entry at top**

**Material:** Zinc diecast

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



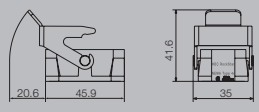

### Base

**Bulkhead housing**

**Material:** Zinc diecast

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

**Note** CS: with locking bow

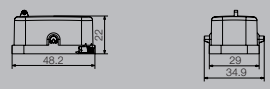



**Cover**

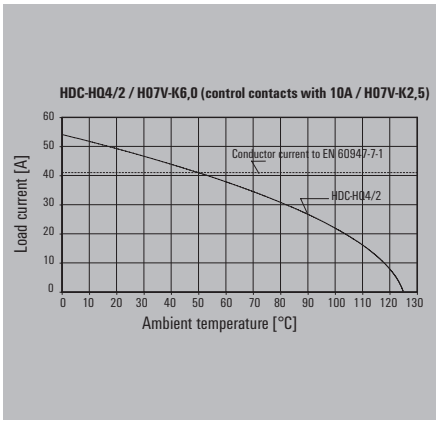
**Material:** Plastic

| Version | Type | Order No. |
|---|---|---|
| with female | HDC HQP DMD 2BO | 1003130000 |
| with male | HDC HQP DOD 2BO | 1003140000 |

**Note** for plastic and metal housings, for locking bow

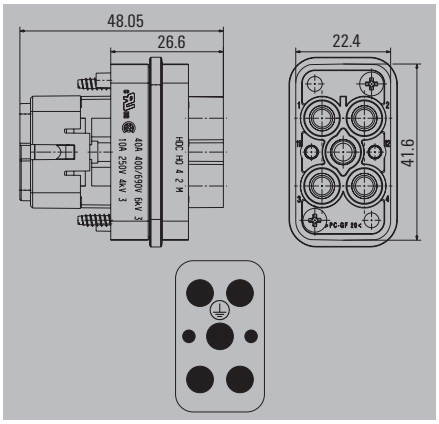


## 690 V / 250 V, 10 A / 40 A, size HQ
## 4 + 2 + ⏚




### Installation cut-out

### Male




### Ordering data

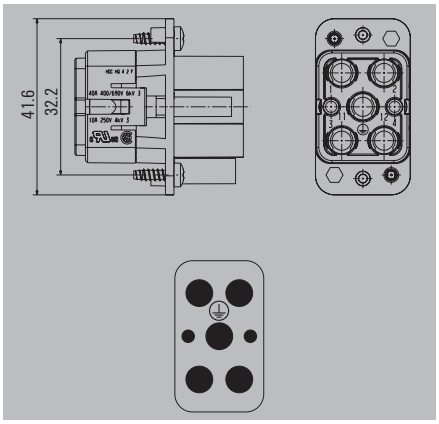
| Type of connection | Type | Qty. | Order No. |
|---|---|---|---|
| Crimp connection | HDC HQ 4/2 MC | 1 | 1003170000 |

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

### Accessories

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

### Female




### Ordering data

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

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

### Accessories

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

# Housing selection RockStar® IP65
# Size HQ

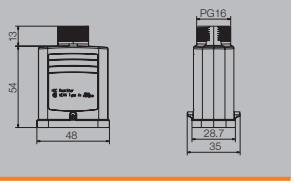
## Hood

### 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 |

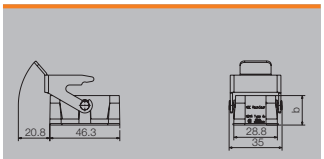



## Base

### Bulkhead housing

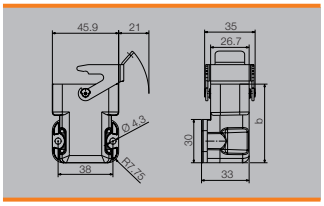
| | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| | | | 19.5 | HDC HQP ALU | 1003040000 |

**Note** CS: with locking bow



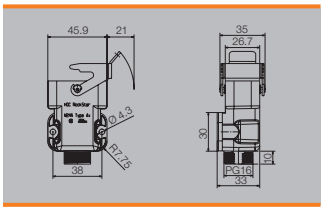

### Bulkhead housing angled

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



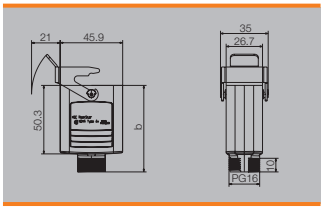

### Base housing

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




### Coupling housing

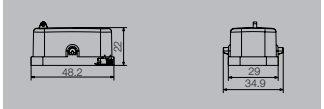
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| PG 16 | w. threading | | 63.5 | HDC HQP KOLU 1PG16 | 1003120000 |




### Cover

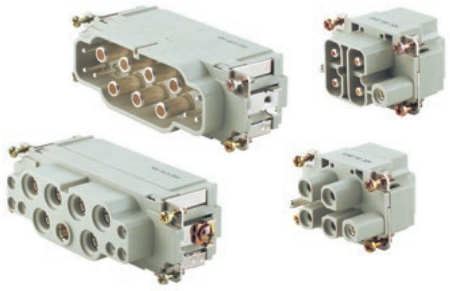
| Version | Type | Order No. |
|---|---|---|
| with female | HDC HQP DMD 2BO | 1003130000 |
| with male | HDC HQP DOD 2BO | 1003140000 |

**Note** for plastic and metal housings, for locking bow



# MixMate series

Multifunctional: The special design of MixMate enables reliable transmission of high rated currents and voltages, as well as signals, simultaneously.



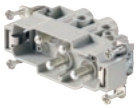
## Technical data

| | S4 | S8/24 | S4/0 | S4/2 |
|---|---|---|---|---|
| **Standards/approvals** | | | | |
| Standards | DIN EN 61984<br>DIN EN 60664-1 | DIN EN 61984<br>DIN EN 60664-1 | DIN EN 61984<br>DIN EN 60664-1 | DIN EN 61984<br>DIN EN 60664-1 |
| Approvals | UL/CSA | UL/CSA/VDE | UL/CSA/VDE | UL/CSA/VDE |
| **Inserts** | | | | |
| No. of poles | | | | |
| – Power contact | 4 (+ PE) | 8 (+ PE) | 4 (+ PE) | 4 (+ PE) |
| – Signal contact | | 24 | | 2 |
| Rated voltage | | | | |
| – Power contact | 1,000 V | 400 V | 830 V | 830 V |
| – Signal contact | | 160 V | | 400 V |
| Rated voltage to UL/CSA | 600 V | 600 V | 600 V | 600 V |
| Rated current | | | | |
| – Power contact | 40 A | 16 A | 80 A | 80 A |
| – Signal contact | | 10 A | | 16 A |
| Rated impulse withstand voltage | | | | |
| – Power contact | 8 kV | 4 kV | 8 kV | 8 kV |
| – Signal contact | | 2.5 kV | | 6 kV |
| Pollution severity | 3 | 3 | 3 | 3 |
| Insulation resistance | ≥ $10^{10}$ Ω | ≥ $10^{10}$ Ω | ≥ $10^{10}$ Ω | ≥ $10^{10}$ Ω |
| Material | Glass-fibre reinforced PC (in UL list and approved for railway applications) | Glass-fibre reinforced PC (in UL list and approved for railway applications) | Glass-fibre reinforced PC (in UL list and approved for railway applications) | Glass-fibre reinforced PC (in UL list and approved for railway applications) |
| Temperature range | –40 °C to +125 °C | –40 °C to +125 °C | –40 °C to +125 °C | –40 °C to +125 °C |
| Flammability to UL 94 | V-0 | V-0 | V-0 | V-0 |
| Mechanical service life | | | | |
| – Plugging cycles Ag-Surface | ≥ 500 | ≥ 500 | ≥ 500 | ≥ 500 |
| – Plugging cycles Au-Surface | | ≥ 500 | | |
| Contact resistance<br>with min. and max. conductors | ≤ 1 mΩ | ≤ 2 mΩ (Power)<br>≤ 4 mΩ (Signals) | ≤ 1 mΩ | ≤ 1 mΩ (Power)<br>≤ 2 mΩ (Signals) |
| **Contacts / Material** | | | | |
| Sockets and plug-in contact | Copper alloy | Copper alloy | Copper alloy | Copper alloy |
| Surface | Passivated silver | Passivated silver or gold-plated | Passivated silver | Passivated silver |
| Flexible conductor connection | | | | |
| – Power contact | 2.5 – 10 mm² (AWG 14 – 8) | 0.5 – 4 mm² (AWG 20 – 12) | 1.5 – 16 mm² (AWG 16 – 6) | 1.5 – 16 mm² (AWG 16 – 6) |
| – Signal contact | | 0.14 – 2.5 mm² (AWG 26 – 14) | | 0.5 – 2.5 mm² (AWG 22 – 14) |
| Stripping length | | | | |
| – Power contact | 8 mm | 7.5 mm | 15 mm | 15 mm |
| – Signal contact | | 8 mm | | 8 mm |
| Clamping torque | | | | |
| – Power contact | 1.1 – 1.7 Nm | | 1.2 Nm (1.5 mm²) /<br>2 Nm (2.5 mm²) /<br>3 Nm (4 – 16 mm²) | 1.2 Nm (1.5 mm²) /<br>2 Nm (2.5 mm²) /<br>3 Nm (4 – 16 mm²) |
| – Signal contact | | | | 0.5 – 0.55 Nm |
| Tools | | | | |
| – Hexagon socket, 2 mm | SW 2 | | | |
| – Screwdriver | 0.6 x 3.5 mm | | SD 0.8 x 4 mm | SD 0.8 x 4 mm (Power) /<br>SD 0.6 x 3.5 mm or PH1 (Signals) |
| – Crimping tool | | CTIN 1.6/2.5 / CTX CM 1.6/2.5<br>(for 0.5 – 1.5 mm²) | | |
| PE connection via plug/socket | | | | |
| – Clamping range | 1.5/2.5 – 4/10 mm² | 0.5 – 6 mm² (0.5 mm² with ferrule) | 0.5 – 16 mm² (0.5 mm² with ferrule<br>10 – 16 mm² with ring cable lug) | 0.5 – 16 mm² (0.5 mm² with ferrule<br>10 – 16 mm² with ring cable lug) |
| – AWG conductor | AWG 16/14 – 12/8 | AWG 20 – 10 (AWG 10 with ring cable lug) | AWG 20 – 6 (AWG 10. 8 and 6 with ring cable lug) | AWG 20 – 6 (AWG 10. 8 and 6 with ring cable lug) |
| – Stripping length | 8 mm | 13 mm | 13 mm | 13 mm |
| – Clamping torque | 0.5 – 0.8 Nm | 2 – 2.5 Nm | 2 – 2.5 Nm | 2 – 2.5 Nm |
| – Blade dimensions | SD 0.8 x 4 mm | SD 1.2 x 6.5 mm or PH2 | SD 1.2 x 6.5 mm or PH2 | SD 1.2 x 6.5 mm or PH2 |

**Hinweis**: When used properly and as designated, the listed connectors may not be connected or disconnected if there is a live voltage or load!
* Power contact = Axial screw connection, Signal contact = Screw connection

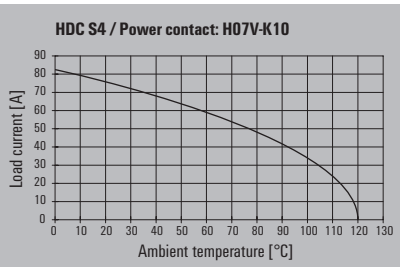
| S6/12* | S6/36 | S12/2 | S4/8 | S6/6* | S8/0 |
|---|---|---|---|---|---|
| | | | | | |
| DIN EN 61984<br>DIN EN 60664-1 | DIN EN 61984<br>DIN EN 60664-1 | DIN EN 61984<br>DIN EN 60664-1 | DIN EN 61984<br>DIN EN 60664-1 | DIN EN 61984<br>DIN EN 60664-1 | DIN EN 61984<br>DIN EN 60664-1 |
| UL/CSA | UL/CSA/VDE | UL/CSA/VDE | UL/CSA/VDE | UL/CSA | UL/CSA/VDE |
| | | | | | |
| 6 (+ PE) | 6 (+ PE) | 12 (+ PE) | 4 (+ PE) | 6 (+ PE) | 8 (+ PE x 2) |
| 12 | 36 | 2 | 8 | 6 | |
| 690 V | 690 V | 690 V | 400 V | 690 V | 690 V |
| 400 V | 160 V | 250 V | 400 V | 400 V | |
| 600 V | 600 V | 600 V | 600 V | 600 V | 600 V |
| 48 A | 40 A | 40 A | 80 A | 100 A | 110 A |
| 16 A | 10 A | 10 A | 16 A | 16 A | |
| 8 kV | 8 kV | 8 kV | 6 kV | 8 kV | 8 kV |
| 6 kV | 2.5 kV | 4 kV | 6 kV | 6 kV | |
| 3 | 3 | 3 | 3 | 3 | 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 to +125 °C | –40 °C to +125 °C | –40 °C to +125 °C | –40 °C to +125 °C | –40 °C to +125 °C | –40 °C to +125 °C |
| V-0 | V-0 | V-0 | V-0 | V-0 | V-0 |
| ≥ 500 | ≥ 500 | ≥ 500 | ≥ 500 | ≥ 500 | ≥ 500 |
| | ≥ 500 | ≥ 500 | | | |
| ≤ 2 mΩ (Power)<br>≤ 2 mΩ (Signals) | ≤ 2 mΩ (Power)<br>≤ 4 mΩ (Signals) | ≤ 2 mΩ (Power)<br>≤ 4 mΩ (Signals) | ≤ 1 mΩ (Power)<br>≤ 2 mΩ (Signals) | ≤ 1 mΩ (Power)<br>≤ 2 mΩ (Signals) | ≤ 1 mΩ |
| | | | | | |
| Copper alloy | Copper alloy | Copper alloy | Copper alloy | Copper alloy | Copper alloy |
| Passivated silver | Passivated silver or gold-plated | Passivated silver or gold-plated | Passivated silver | Passivated silver | Passivated silver |
| 2.5 – 10 mm² (AWG 14 – 8) | 1.5 – 6 mm² (AWG 16 – 10) | 1.5 – 6 mm² (AWG 16 – 10) | 1.5 – 16 mm² (AWG 16 – 6) | 16 – 35 mm² (AWG 6 – 2) | 10 – 25 mm² (AWG 8 – 4) |
| 0.5 – 2.5 mm² (AWG 24 – 14) | 0.14 – 2.5 mm² (AWG 26 – 14) | 0.14 – 2.5 mm² (AWG 26 – 14) | 0.5 – 2.5 mm² (AWG 22 – 14) | 0.5 – 2.5 mm² (AWG 24 – 14) | |
| 8 mm | 9 mm | 9 mm | 15 mm | 13 mm | 12 mm |
| 12 mm | 8 mm | 8 mm | 8 mm | 12 mm | |
| 1.1 – 1.7 Nm | | | 1.2 Nm (1.5 mm²) /<br>2 Nm (2.5 mm²) /<br>3 Nm (4 – 16 mm²) | 6 – 8 Nm | 6 Nm (10 – 16 mm²) /<br>7 Nm (25 mm²) |
| 0.45 – 0.9 Nm | | | 0.5 – 0.55 Nm | 0.45 – 0.9 Nm | |
| SW 2 | | | | SW 4 | SW 4 |
| 0.6 x 3.5 mm | | | SD 0.8 x 4 mm (Power) /<br>SD 0.6 x 3.5 mm or PH1 (Signals) | SD 0.6 x 3.5 or PZ 0 | |
| | CTIN 1.6/2.5 / CTX CM 1.6/2.5 (for 0.5 – 1.5 mm²) | CTIN 1.6/2.5 / CTX CM 1.6/2.5 (for 0.5 – 1.5 mm²) | | | |
| 2.5 – 10 mm² | 0.5 – 6 mm² (0.5 mm² with ferrule) | 0.5 – 6 mm² (0.5 mm² with ferrule) | 0.5 – 16 mm² (0.5 mm² with ferrule),<br>10 – 16 mm² with ring cable lug) | 16 – 35 mm² | 10 – 25 mm² |
| 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 mm²)/7 Nm (25 mm²) |
| SD 0.8 x 4 mm or PZ2 | SD 1.2 x 6.5 mm or PH2 | SD 1.2 x 6.5 mm or PH2 | SD 1.2 x 6.5 mm or PH2 | SD 0.8 x 4 mm or PZ 1 | SD 5.5 x 1.0 or PH2 |

## Overview

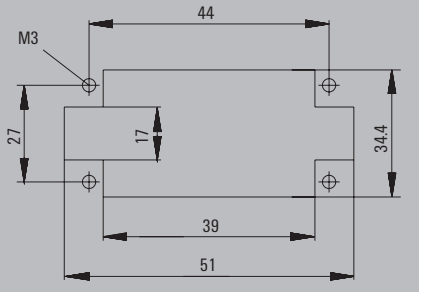
| | | Size | Rated voltage | Rated current | No. of poles | Tension clamp connection | TOP connection | Screw conn. with wire guard spring | Crimp connection | Axial screw connection | Page |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 3 | 1,000 V | 40 A | 4 + ⏚ | | | | | • | B.112 |
| |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

## 1000 V, 40 A, size 3

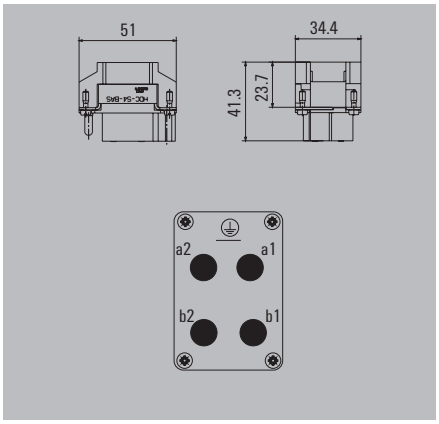
4 + ⏚




### Installation cut-out




### Male

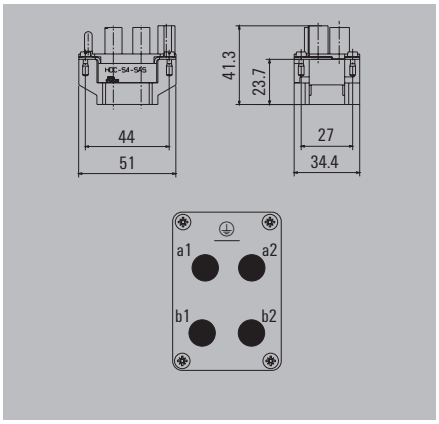



### Ordering data

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

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

### Female




### Ordering data

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

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

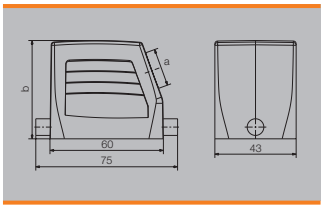
## Housing selection RockStar® IP65
## Size 3

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

## Hood

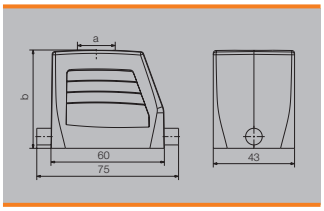
### Plug housing, cable entry sideways

| 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

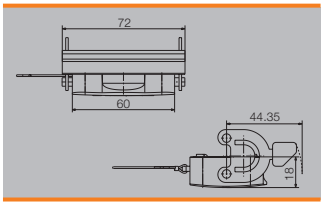
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 25 | w. threading | | 72 | HDC 16D TOLU 1M25G | 1787500000 |
| M 32 | w. threading | | 72 | HDC 16D TOLU 1M32G | 1787490000 |




### Cover

| Version | Type | Order No. |
|---|---|---|
| For hoods | HDC 06B DMDL 1LB | 1665210000 |
| For hoods | HDC 06B DMDL 1LB N | 2559730000 |

**Note** Note: N = Plastic locking lever with stainless steel inlay

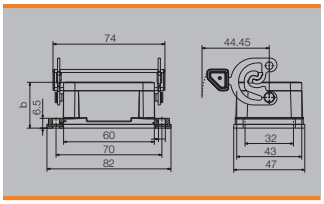



## Base

### Bulkhead housing

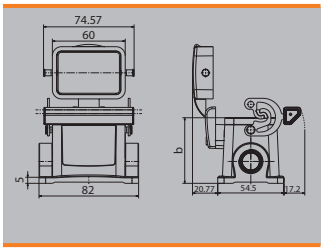
| | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| | | without cover | 29.3 | HDC 06B ALU | 1202100000 |
| | | | 29.3 | HDC 06B ALU N | 2488560000 |
| | | with cover | 29.3 | HDC 06B ADLU | 1202500000 |
| | | with cover | 29.3 | HDC 06B ADLU N | 2559320000 |

**Note** Note: N = Plastic locking lever with stainless steel inlay



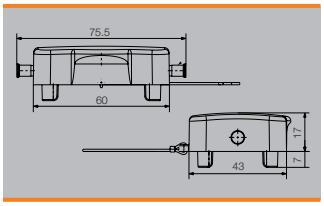

### Base housing

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



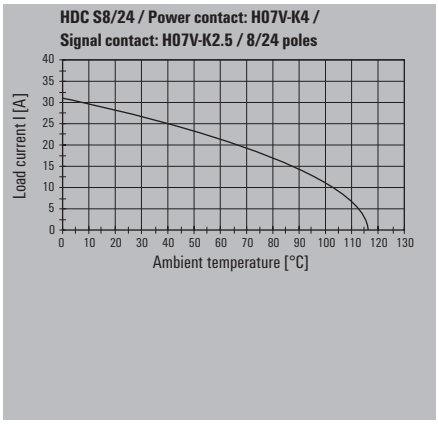

### Cover

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

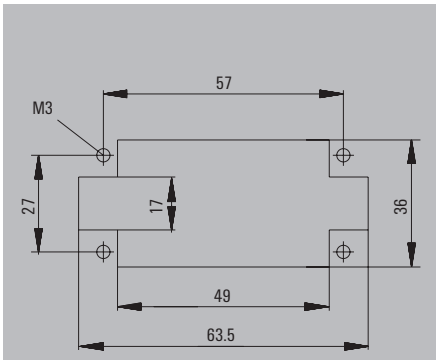


## 400 V, 16 A, size 4

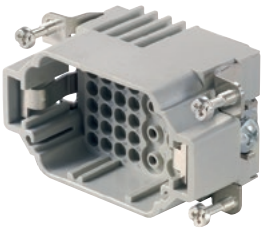
**8 + 24 + ⏚**

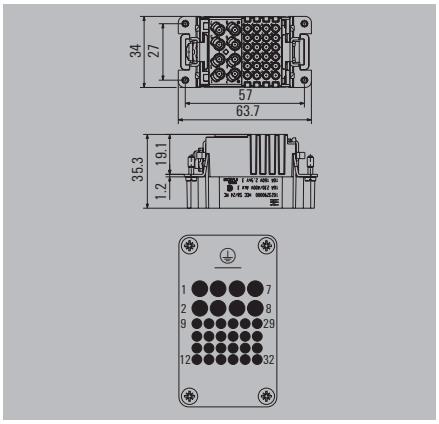



### Installation cut-out




## Male






### Ordering data

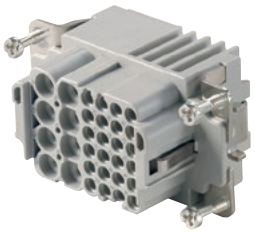
| Type of connection | Type | Qty. | Order No. |
|---|---|---|---|
| Crimp connection | HDC S8/24 MC | 1 | **1023290000** |

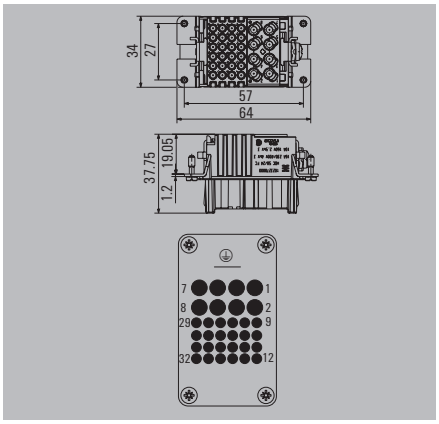
The signal contacts are designed for a rated voltage of 160 V and a rated current of 10 A.

### Accessories

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

## Female






### Ordering data

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

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

### Accessories

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

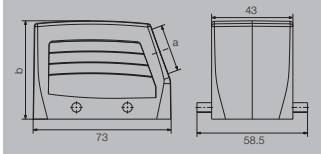
## Housing selection RockStar® IP65
## Size 4

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

## Hood

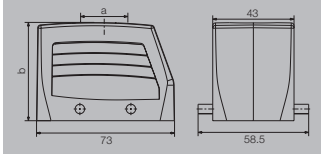
### Plug housing, cable entry sideways

| 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

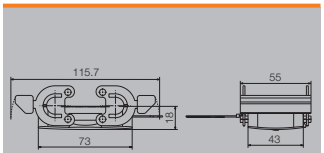
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 20 | w. threading | | 52 | HDC 10B TOBU 1M20G | 1787600000 |
| M 25 | w. threading | | 52 | HDC 10B TOBU 1M25G | 1787590000 |
| M 25 | w. threading | | 72 | HDC 24D TOBU 1M25G | 1787300000 |
| M 32 | w. threading | | 72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




### Cover

| Version | Type | Order No. |
|---|---|---|
| For hoods | HDC 10B DMDQ 2QB | 1665240000 |
| For hoods | HDC 10B DMDQ 2QB N | 2559740000 |

**Note** Note: N = Plastic locking lever with stainless steel inlay

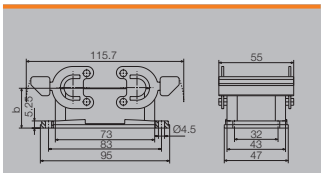



## Base

### Bulkhead housing

| | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| | | | 29.5 | HDC 10B ABU | 1205000000 |
| | | | 29.5 | HDC 10B ABU N | 2488580000 |

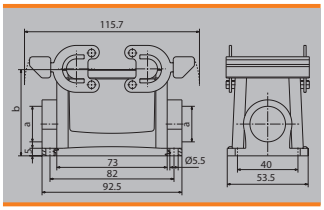
**Note** Note: N = Plastic locking lever with stainless steel inlay




### Base housing

| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 20 | w. threading | | 57 | HDC 10B SBU 1M20G N | 2560880000 |
| M 20 | w. threading | | 57 | HDC 10B SBU 2M20G | 1787640000 |
| M 20 | w. threading | | 57 | HDC 10B SBU 2M20G N | 2560890000 |
| M 25 | w. threading | | 57 | HDC 10B SBU 1M25G N | 2560900000 |
| M 25 | w. threading | | 57 | HDC 10B SBU 2M25G | 1787630000 |
| M 25 | w. threading | | 57 | HDC 10B SBU 2M25G N | 2560910000 |

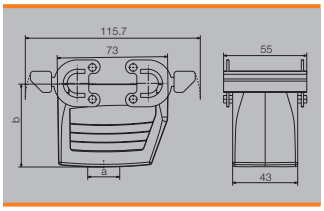
**Note** Note: N = Plastic locking lever with stainless steel inlay




### Coupling housing

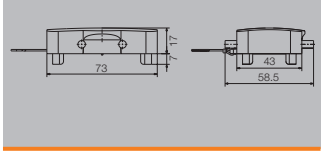
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 20 | w. threading | | 54.65 | HDC 10B KBU 1M20G | 1787720000 |
| M 20 | w. threading | | 54.65 | HDC 10B KBU 1M20G N | 2559860000 |

**Note** Note: N = Plastic locking lever with stainless steel inlay



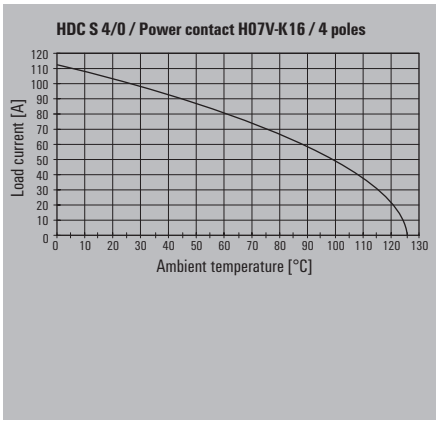

### Cover

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

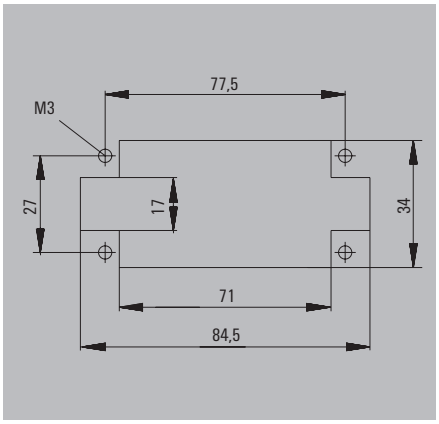


## 830 V, 80 A, size 6

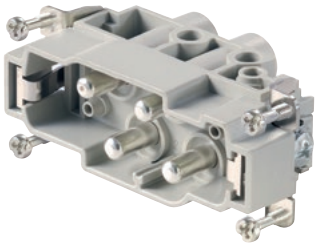
**4 + 0 + ⏚**

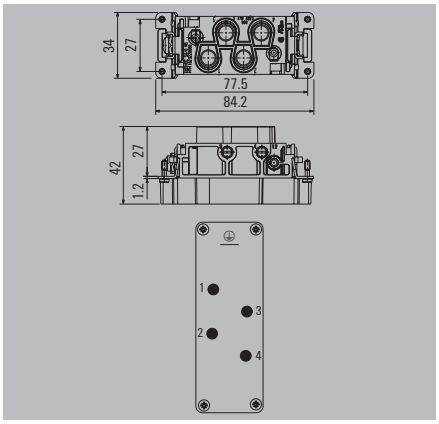



### Installation cut-out




### Male

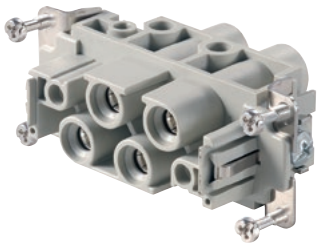


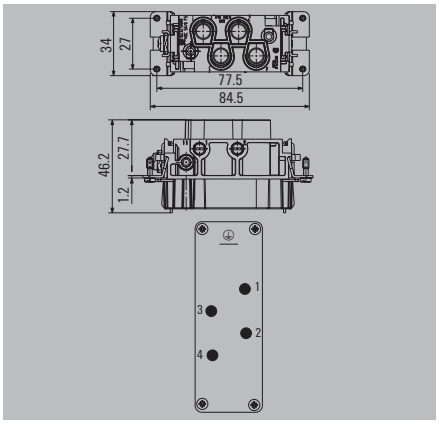



**Ordering data**

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

### Female






**Ordering data**

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

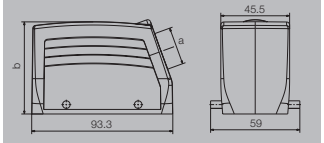
## Housing selection RockStar® IP65
## Size 6

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

## Hood

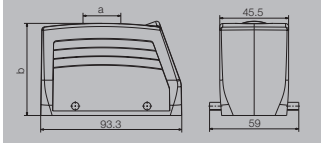
### Plug housing, cable entry sideways

| 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 |



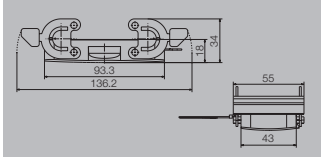

### Plug housing, cable entry at top

| 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 |

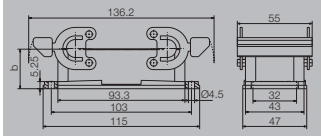



## Base

### Bulkhead housing

| | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| | | | 29 | HDC 16B ABU | 1208600000 |
| | | | 29 | HDC 16B ABU N | 2488590000 |

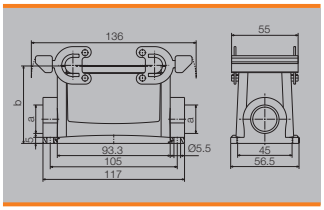
**Note** Note: N = Plastic locking lever with stainless steel inlay




### Base housing

| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 25 | w. threading | | 64 | HDC 16B SBU 1M25G N | 2560740000 |
| M 25 | w. threading | | 64 | HDC 16B SBU 2M25G | 1788240000 |
| M 25 | w. threading | | 64 | HDC 16B SBU 2M25G N | 2560930000 |
| M 25 | w. threading | | 84 | HDC 40D SBU 2M25G | 1787120000 |
| PG 21 | w. threading | | 84 | HDC 40D SBU 1M32G N | 2561030000 |
| M 32 | w. threading | | 84 | HDC 40D SBU 2M32G | 1787110000 |

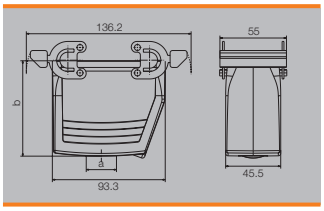
**Note** Note: N = Plastic locking lever with stainless steel inlay




### Coupling housing

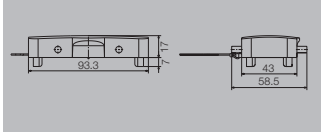
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 25 | w. threading | | 78.6 | HDC 40D KBU 1M25G | 1787200000 |
| PG 29 | w. threading | | 79 | HDC 40D KBU 1M25G N | 2559890000 |
| M 32 | w. threading | | 78.6 | HDC 40D KBU 1M32G | 1787190000 |
| PG 29 | w. threading | | 79 | HDC 40D KBU 1M32G N | 2559900000 |
| PG 29 | w. threading | | 79 | HDC 40D KBU 2M32G N | 2545510000 |

**Note** Note: N = Plastic locking lever with stainless steel inlay



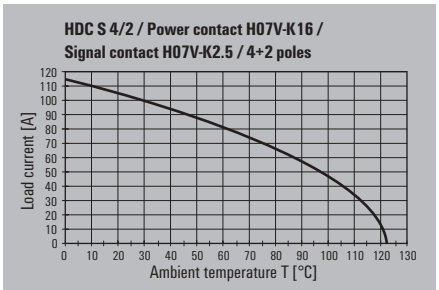

### Cover

| Version | Type | Order No. |
|---|---|---|
| For bases | HDC 16B DODQ 4BO | 1665260000 |

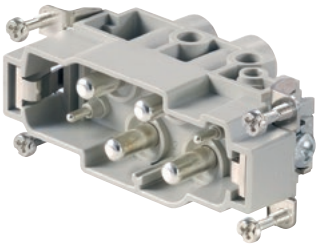


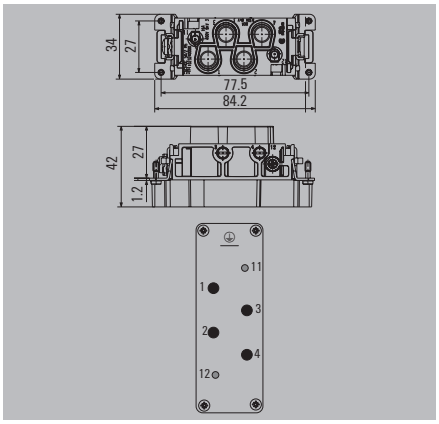
## 830 V, 80 A, size 6

4 + 2 + ⏚

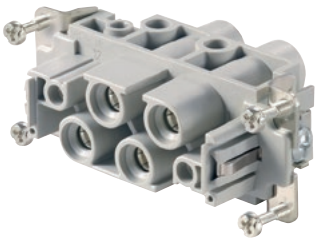


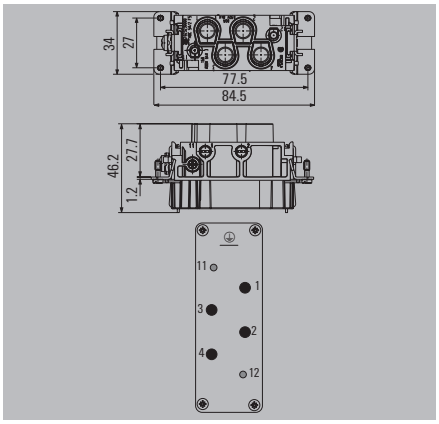

### Male






### Female






### Ordering data

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

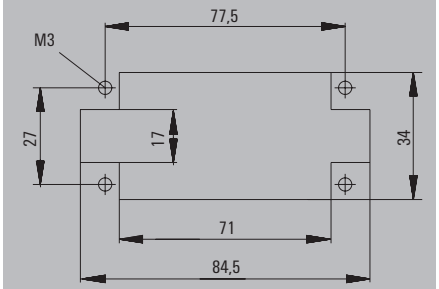
The signal contacts are designed for a rated voltage of 400V and a rated current of 16A.

### Ordering data

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

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

### Installation cut-out



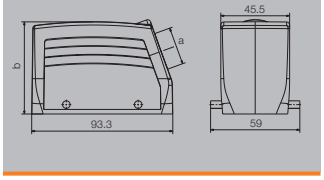
## Housing selection RockStar® IP65
## Size 6

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

## Hood

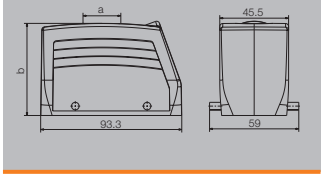
### Plug housing, cable entry sideways

| 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 |



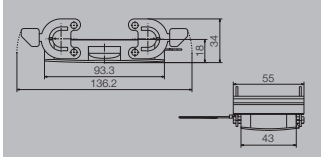

### Plug housing, cable entry at top

| 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 |

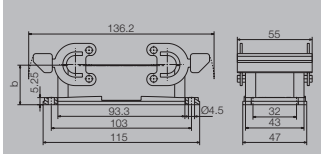



## Base

### Bulkhead housing

| | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| | | | 29 | HDC 16B ABU | 1208600000 |
| | | | 29 | HDC 16B ABU N | 2488590000 |

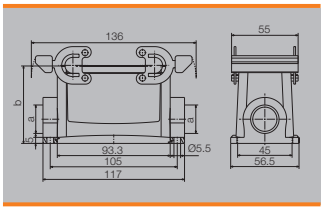
**Note** Note: N = Plastic locking lever with stainless steel inlay




### Base housing

| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 25 | w. threading | | 64 | HDC 16B SBU 1M25G N | 2560740000 |
| M 25 | w. threading | | 64 | HDC 16B SBU 2M25G | 1788240000 |
| M 25 | w. threading | | 64 | HDC 16B SBU 2M25G N | 2560930000 |
| M 25 | w. threading | | 84 | HDC 40D SBU 2M25G | 1787120000 |
| PG 21 | w. threading | | 84 | HDC 40D SBU 1M32G N | 2561030000 |
| M 32 | w. threading | | 84 | HDC 40D SBU 2M32G | 1787110000 |

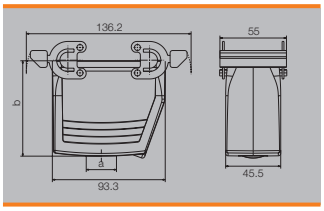
**Note** Note: N = Plastic locking lever with stainless steel inlay




### Coupling housing

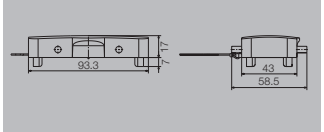
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 25 | w. threading | | 78.6 | HDC 40D KBU 1M25G | 1787200000 |
| PG 29 | w. threading | | 79 | HDC 40D KBU 1M25G N | 2559890000 |
| M 32 | w. threading | | 78.6 | HDC 40D KBU 1M32G | 1787190000 |
| PG 29 | w. threading | | 79 | HDC 40D KBU 1M32G N | 2559900000 |
| PG 29 | w. threading | | 79 | HDC 40D KBU 2M32G N | 2545510000 |

**Note** Note: N = Plastic locking lever with stainless steel inlay



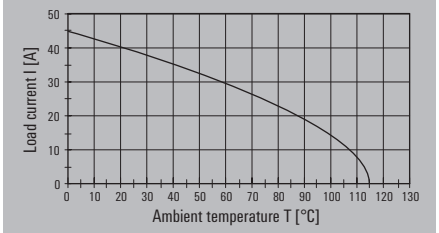

### Cover

| Version | Type | Order No. |
|---|---|---|
| For bases | HDC 16B DODQ 4BO | 1665260000 |

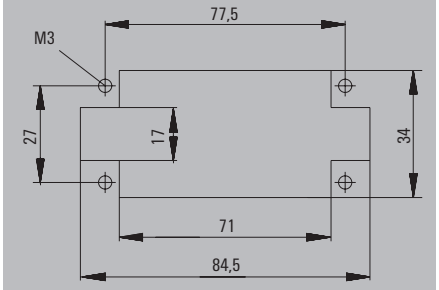


## 690 V, 40 A, size 6

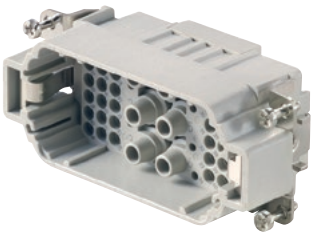
**6 + 36 + ⏚**

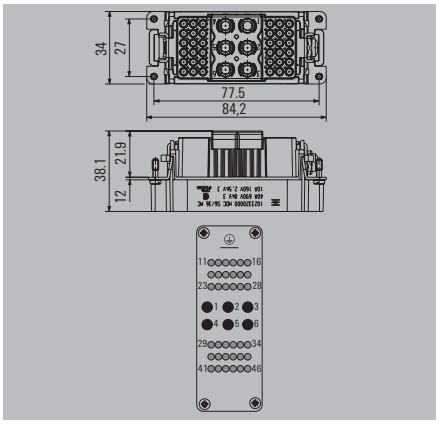



### Installation cut-out




## Male






### Ordering data

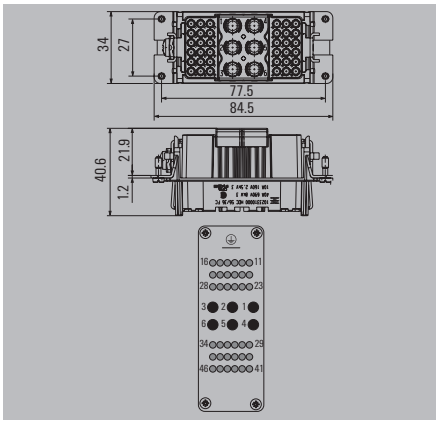
| Type of connection | Type | Qty. | Order No. |
|---|---|---|---|
| Crimp connection | HDC S6/36 MC | 1 | **1023320000** |

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

### Accessories

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

## Female




### Ordering data

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

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

### Accessories

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

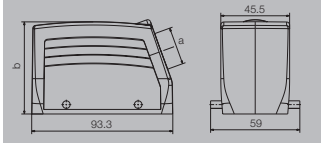
## Housing selection RockStar® IP65
## Size 6

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

## Hood

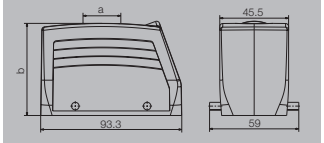
### Plug housing, cable entry sideways

| 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 |



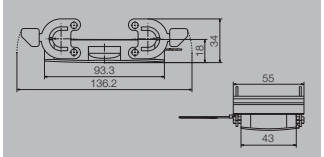

### Plug housing, cable entry at top

| 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 |

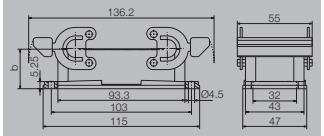



## Base

### Bulkhead housing

| | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| | | | 29 | HDC 16B ABU | 1208600000 |
| | | | 29 | HDC 16B ABU N | 2488590000 |

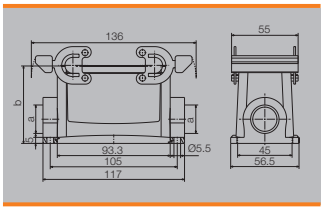
**Note** Note: N = Plastic locking lever with stainless steel inlay




### Base housing

| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 25 | w. threading | | 64 | HDC 16B SBU 1M25G N | 2560740000 |
| M 25 | w. threading | | 64 | HDC 16B SBU 2M25G | 1788240000 |
| M 25 | w. threading | | 64 | HDC 16B SBU 2M25G N | 2560930000 |
| M 25 | w. threading | | 84 | HDC 40D SBU 2M25G | 1787120000 |
| PG 21 | w. threading | | 84 | HDC 40D SBU 1M32G N | 2561030000 |
| M 32 | w. threading | | 84 | HDC 40D SBU 2M32G | 1787110000 |

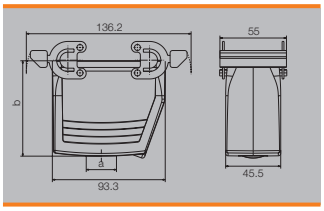
**Note** Note: N = Plastic locking lever with stainless steel inlay




### Coupling housing

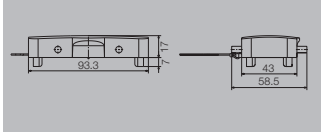
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 25 | w. threading | | 78.6 | HDC 40D KBU 1M25G | 1787200000 |
| PG 29 | w. threading | | 79 | HDC 40D KBU 1M25G N | 2559890000 |
| M 32 | w. threading | | 78.6 | HDC 40D KBU 1M32G | 1787190000 |
| PG 29 | w. threading | | 79 | HDC 40D KBU 1M32G N | 2559900000 |
| PG 29 | w. threading | | 79 | HDC 40D KBU 2M32G N | 2545510000 |

**Note** Note: N = Plastic locking lever with stainless steel inlay



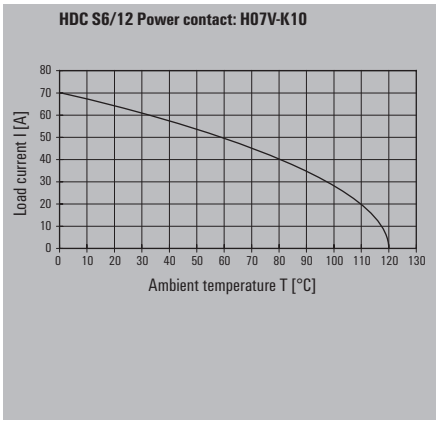

### Cover

| Version | Type | Order No. |
|---|---|---|
| For bases | HDC 16B DODQ 4BO | 1665260000 |

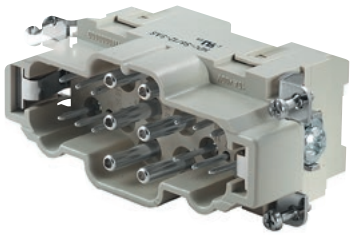


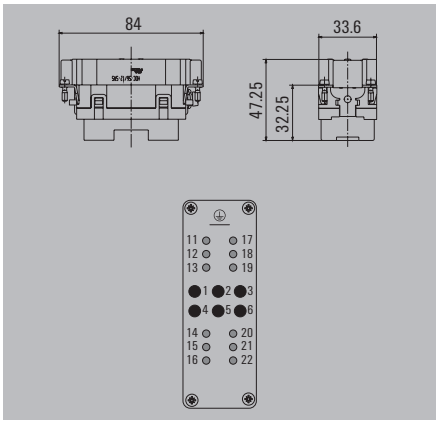
## 690 V, 48 A, size 6

6 + 12 + ⏚




### Male



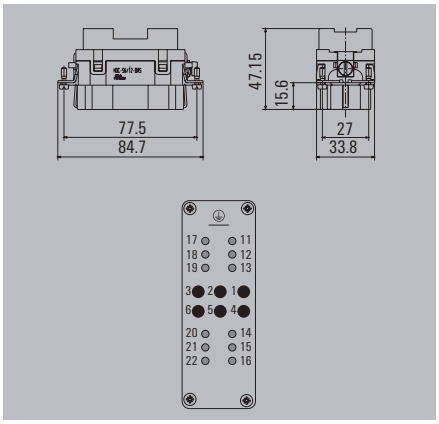



### Ordering data

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

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

### Female

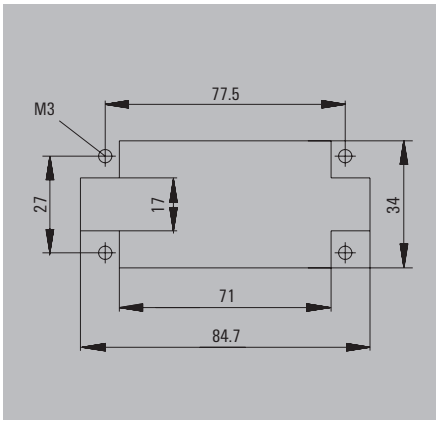



### Ordering data

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

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

### Installation cut-out



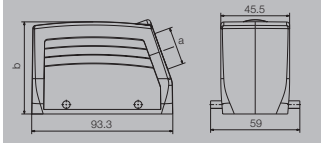
## Housing selection RockStar® IP65
## Size 6

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

## Hood

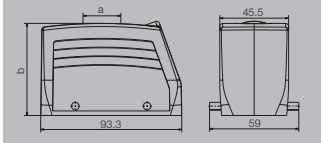
### Plug housing, cable entry sideways

| 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 |



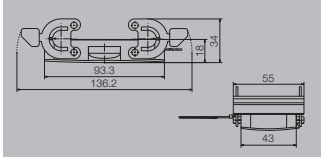

### Plug housing, cable entry at top

| 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 |

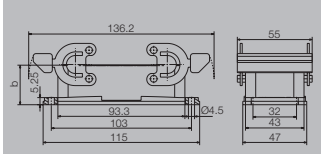



## Base

### Bulkhead housing

| | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| | | | 29 | HDC 16B ABU | 1208600000 |
| | | | 29 | HDC 16B ABU N | 2488590000 |

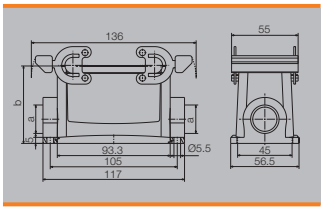
**Note** Note: N = Plastic locking lever with stainless steel inlay




### Base housing

| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 25 | w. threading | | 64 | HDC 16B SBU 1M25G N | 2560740000 |
| M 25 | w. threading | | 64 | HDC 16B SBU 2M25G | 1788240000 |
| M 25 | w. threading | | 64 | HDC 16B SBU 2M25G N | 2560930000 |
| M 25 | w. threading | | 84 | HDC 40D SBU 2M25G | 1787120000 |
| PG 21 | w. threading | | 84 | HDC 40D SBU 1M32G N | 2561030000 |
| M 32 | w. threading | | 84 | HDC 40D SBU 2M32G | 1787110000 |

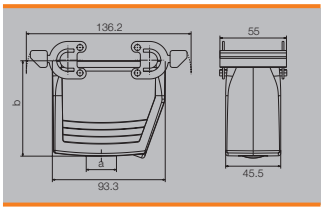
**Note** Note: N = Plastic locking lever with stainless steel inlay




### Coupling housing

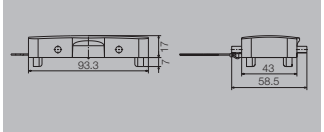
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 25 | w. threading | | 78.6 | HDC 40D KBU 1M25G | 1787200000 |
| PG 29 | w. threading | | 79 | HDC 40D KBU 1M25G N | 2559890000 |
| M 32 | w. threading | | 78.6 | HDC 40D KBU 1M32G | 1787190000 |
| PG 29 | w. threading | | 79 | HDC 40D KBU 1M32G N | 2559900000 |
| PG 29 | w. threading | | 79 | HDC 40D KBU 2M32G N | 2545510000 |

**Note** Note: N = Plastic locking lever with stainless steel inlay



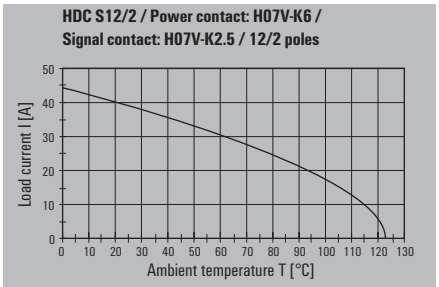

### Cover

| Version | Type | Order No. |
|---|---|---|
| For bases | HDC 16B DODQ 4BO | 1665260000 |

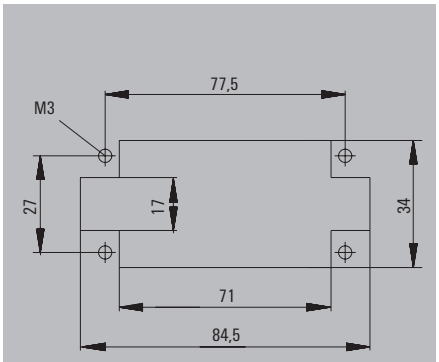


## 690 V, 40 A, size 6

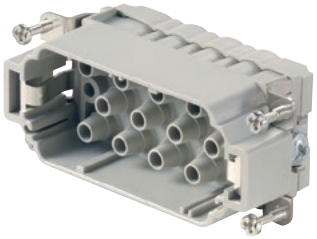
12 + 2 + ⏚

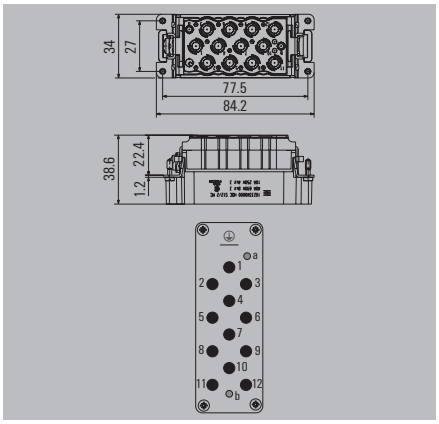



### Installation cut-out




## Male






### Ordering data

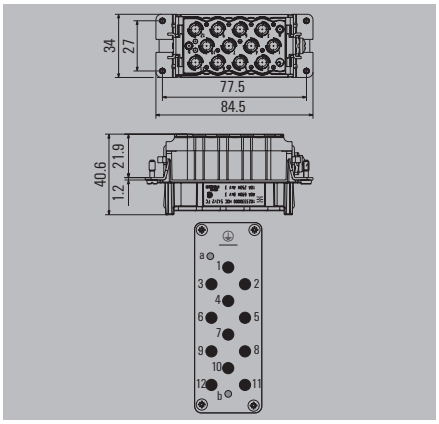
| Type of connection | Type | Qty. | Order No. |
|---|---|---|---|
| Crimp connection | HDC S12/2 MC | 1 | 1023340000 |

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

### Accessories

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

## Female




### Ordering data

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

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

### Accessories

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

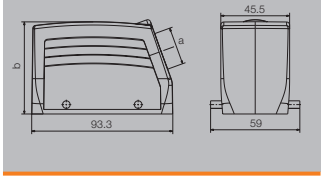
## Housing selection RockStar® IP65
## Size 6

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

## Hood

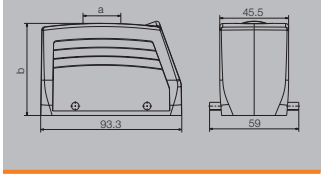
### Plug housing, cable entry sideways

| 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 |



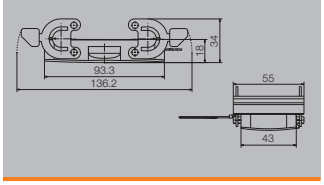

### Plug housing, cable entry at top

| 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 |

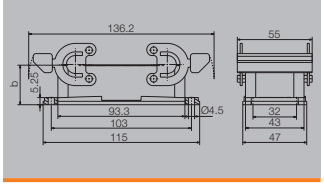



## Base

### Bulkhead housing

| | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| | | | 29 | HDC 16B ABU | 1208600000 |
| | | | 29 | HDC 16B ABU N | 2488590000 |

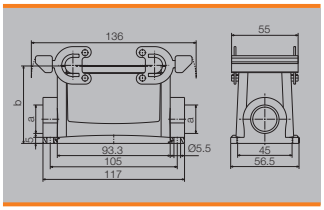
**Note** Note: N = Plastic locking lever with stainless steel inlay




### Base housing

| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 25 | w. threading | | 64 | HDC 16B SBU 1M25G N | 2560740000 |
| M 25 | w. threading | | 64 | HDC 16B SBU 2M25G | 1788240000 |
| M 25 | w. threading | | 64 | HDC 16B SBU 2M25G N | 2560930000 |
| M 25 | w. threading | | 84 | HDC 40D SBU 2M25G | 1787120000 |
| PG 21 | w. threading | | 84 | HDC 40D SBU 1M32G N | 2561030000 |
| M 32 | w. threading | | 84 | HDC 40D SBU 2M32G | 1787110000 |

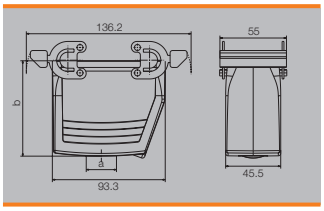
**Note** Note: N = Plastic locking lever with stainless steel inlay




### Coupling housing

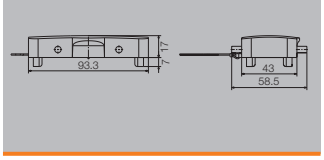
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 25 | w. threading | | 78.6 | HDC 40D KBU 1M25G | 1787200000 |
| PG 29 | w. threading | | 79 | HDC 40D KBU 1M25G N | 2559890000 |
| M 32 | w. threading | | 78.6 | HDC 40D KBU 1M32G | 1787190000 |
| PG 29 | w. threading | | 79 | HDC 40D KBU 1M32G N | 2559900000 |
| PG 29 | w. threading | | 79 | HDC 40D KBU 2M32G N | 2545510000 |

**Note** Note: N = Plastic locking lever with stainless steel inlay



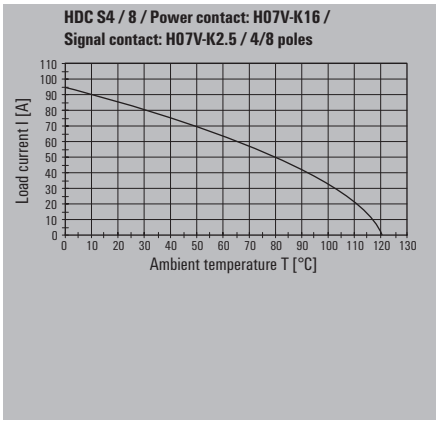

### Cover

| Version | Type | Order No. |
|---|---|---|
| For bases | HDC 16B DODQ 4BO | 1665260000 |

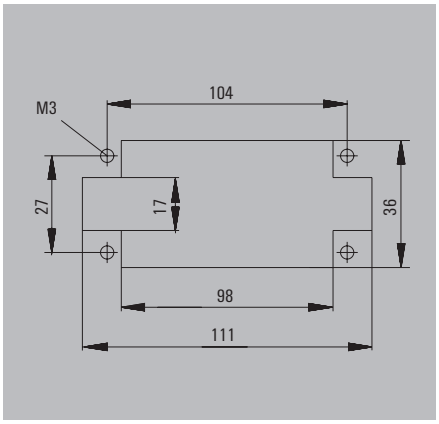


## 400 V, 80 A, size 8

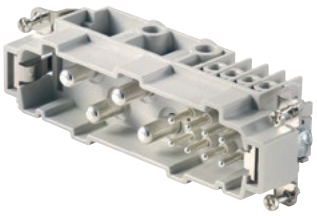
**4 + 8 + ⏚**

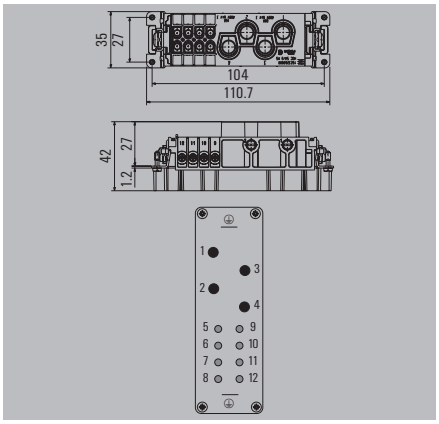



### Installation cut-out




### Male



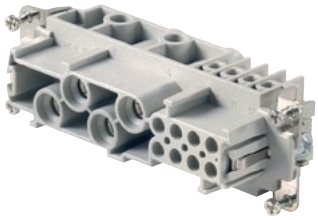


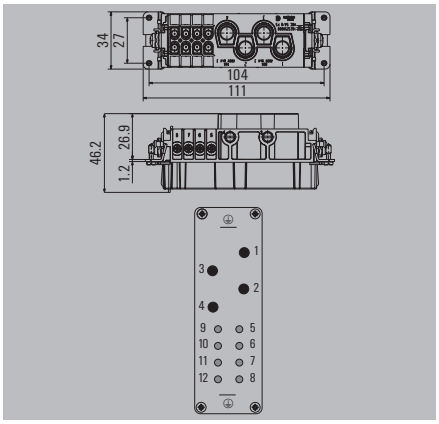

### Ordering data

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

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

### Female






### Ordering data

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

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

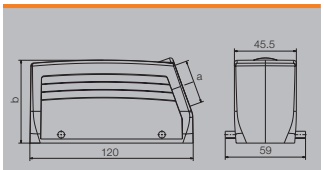
## Housing selection RockStar® IP65
## Size 8

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

## Hood

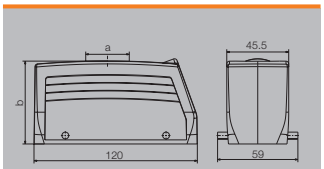
### Plug housing, cable entry sideways

| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 25 | w. threading | | 62.58 | HDC 24B TSBU 1M25G | 1787760000 |
| M 25 | w. threading | | 76 | HDC 64D TSBU 1M25G | 1786780000 |
| M 32 | w. threading | | 62.58 | HDC 24B TSBU 1M32G | 1787750000 |
| M 32 | w. threading | | 76 | HDC 64D TSBU 1M32G | 1786770000 |




### Plug housing, cable entry at top

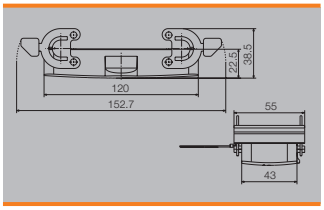
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 25 | w. threading | | 62.58 | HDC 24B TOBU 1M25G | 1787820000 |
| M 32 | w. threading | | 62.58 | HDC 24B TOBU 1M32G | 1787810000 |
| M 32 | w. threading | | 76 | HDC 64D TOBU 1M32G | 1786830000 |




### Cover

| Version | Type | Order No. |
|---|---|---|
| For hoods | HDC 24B DMDQ 2QB | 1665640000 |
| For hoods | HDC 24B DMDQ 2QB N | 2559760000 |

**Note** Note: N = Plastic locking lever with stainless steel inlay

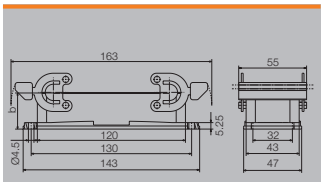



## Base

### Bulkhead housing

| | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| | | | 29.5 | HDC 24B ABU | 1212400000 |
| | | | 29.5 | HDC 24B ABU N | 2488600000 |

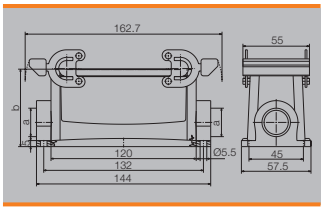
**Note** Note: N = Plastic locking lever with stainless steel inlay




### Base housing

| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 25 | w. threading | | 64 | HDC 24B SBU 2M25G | 1787870000 |
| M 25 | w. threading | | 64 | HDC 24B SBU 2M25G N | 2560970000 |
| M 25 | w. threading | | 84 | HDC 64D SBU 2M25G | 1786890000 |
| M 32 | w. threading | | 84 | HDC 64D SBU 2M25G N | 2561060000 |
| M 32 | w. threading | | 84 | HDC 64D SBU 1M32G N | 2561050000 |
| M 32 | w. threading | | 84 | HDC 64D SBU 2M32G | 1786880000 |

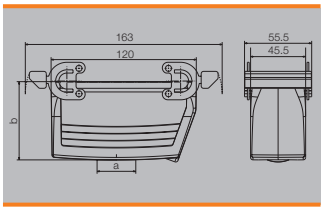
**Note** Note: N = Plastic locking lever with stainless steel inlay




### Coupling housing

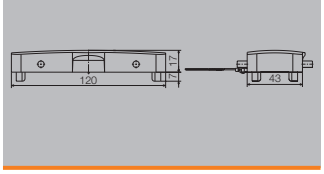
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 25 | w. threading | | 65 | HDC 24B KBU 1M25G | 1787920000 |
| M 25 | w. threading | | 65 | HDC 24B KBU 1M25G N | 2559870000 |
| M 32 | w. threading | | 65 | HDC 24B KBU 2M32G N | 2559880000 |
| M 32 | w. threading | | 79 | HDC 64D KBU 1M32G | 1786960000 |
| M 32 | w. threading | | 79 | HDC 64D KBU 1M32G N | 2559910000 |

**Note** Note: N = Plastic locking lever with stainless steel inlay



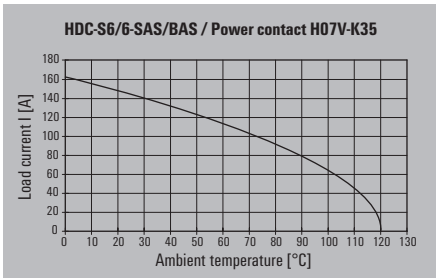

### Cover

| Version | Type | Order No. |
|---|---|---|
| For bases | HDC 24B DODQ 4BO | 1665630000 |

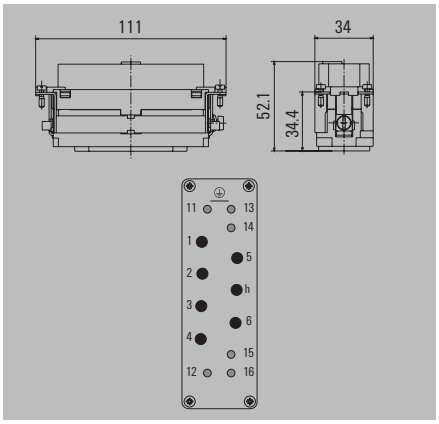


## 690 V, 100 A, size 8

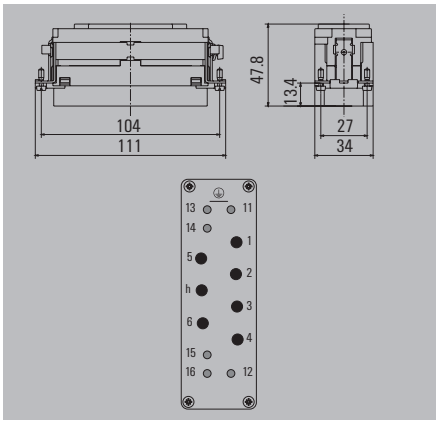
**6 + 6 +** ⏚




### Male




### Female




### Ordering data

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

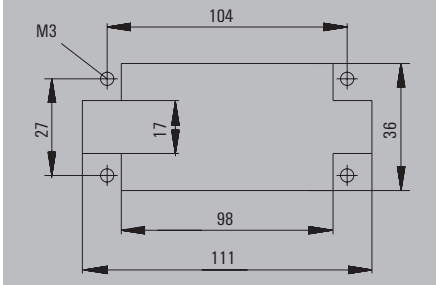
The signal contacts are designed for a rated voltage of 400V and a rated current of 16A.

### Ordering data

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

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

### Installation cut-out



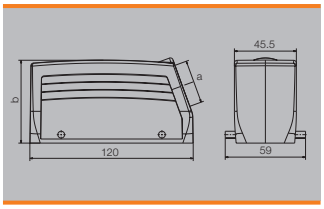
## Housing selection RockStar® IP65
## Size 8

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

## Hood

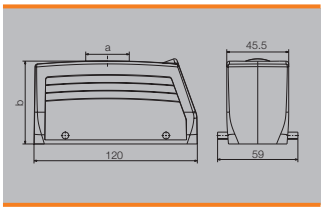
### Plug housing, cable entry sideways

| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 25 | w. threading | | 62.58 | HDC 24B TSBU 1M25G | 1787760000 |
| M 25 | w. threading | | 76 | HDC 64D TSBU 1M25G | 1786780000 |
| M 32 | w. threading | | 62.58 | HDC 24B TSBU 1M32G | 1787750000 |
| M 32 | w. threading | | 76 | HDC 64D TSBU 1M32G | 1786770000 |




### Plug housing, cable entry at top

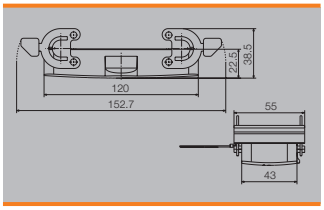
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 25 | w. threading | | 62.58 | HDC 24B TOBU 1M25G | 1787820000 |
| M 32 | w. threading | | 62.58 | HDC 24B TOBU 1M32G | 1787810000 |
| M 32 | w. threading | | 76 | HDC 64D TOBU 1M32G | 1786830000 |




### Cover

| Version | Type | Order No. |
|---|---|---|
| For hoods | HDC 24B DMDQ 2QB | 1665640000 |
| For hoods | HDC 24B DMDQ 2QB N | 2559760000 |

**Note** Note: N = Plastic locking lever with stainless steel inlay

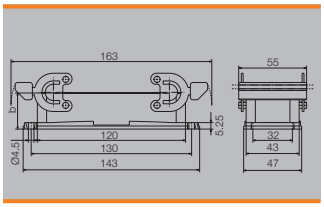



## Base

### Bulkhead housing

| | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| | | | 29.5 | HDC 24B ABU | 1212400000 |
| | | | 29.5 | HDC 24B ABU N | 2488600000 |

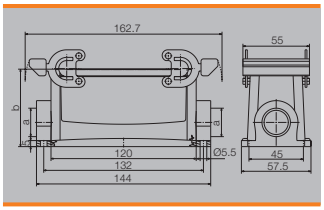
**Note** Note: N = Plastic locking lever with stainless steel inlay




### Base housing

| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 25 | w. threading | | 64 | HDC 24B SBU 2M25G | 1787870000 |
| M 25 | w. threading | | 64 | HDC 24B SBU 2M25G N | 2560970000 |
| M 25 | w. threading | | 84 | HDC 64D SBU 2M25G | 1786890000 |
| M 32 | w. threading | | 84 | HDC 64D SBU 2M25G N | 2561060000 |
| M 32 | w. threading | | 84 | HDC 64D SBU 1M32G N | 2561050000 |
| M 32 | w. threading | | 84 | HDC 64D SBU 2M32G | 1786880000 |

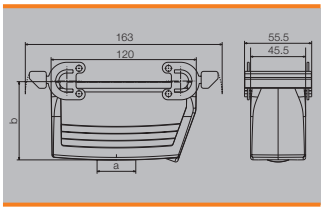
**Note** Note: N = Plastic locking lever with stainless steel inlay




### Coupling housing

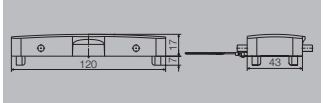
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 25 | w. threading | | 65 | HDC 24B KBU 1M25G | 1787920000 |
| M 25 | w. threading | | 65 | HDC 24B KBU 1M25G N | 2559870000 |
| M 32 | w. threading | | 65 | HDC 24B KBU 2M32G N | 2559880000 |
| M 32 | w. threading | | 79 | HDC 64D KBU 1M32G | 1786960000 |
| M 32 | w. threading | | 79 | HDC 64D KBU 1M32G N | 2559910000 |

**Note** Note: N = Plastic locking lever with stainless steel inlay



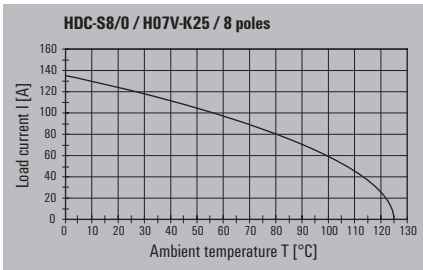

### Cover

| Version | Type | Order No. |
|---|---|---|
| For bases | HDC 24B DODQ 4BO | 1665630000 |

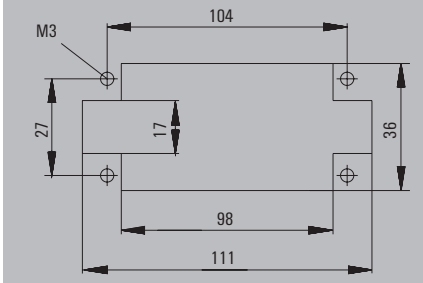


## 690 V, 110 A, size 8

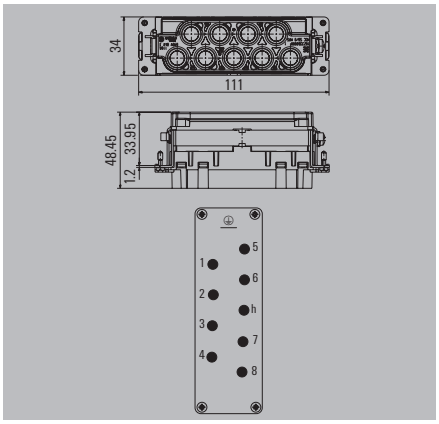
**8 + 0 + ⏚**




### Installation cut-out



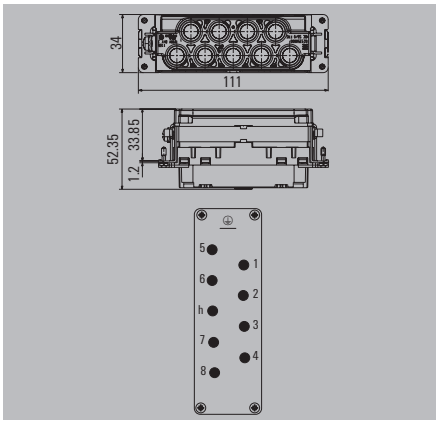

### Male




**Ordering data**

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

### Female




**Ordering data**

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

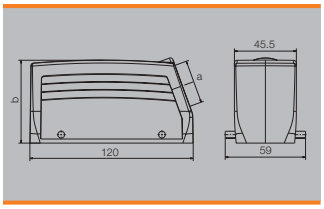
## Housing selection RockStar® IP65
## Size 8

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

## Hood

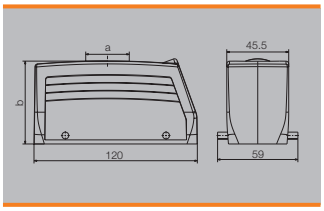
### Plug housing, cable entry sideways

| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 25 | w. threading | | 62.58 | HDC 24B TSBU 1M25G | 1787760000 |
| M 25 | w. threading | | 76 | HDC 64D TSBU 1M25G | 1786780000 |
| M 32 | w. threading | | 62.58 | HDC 24B TSBU 1M32G | 1787750000 |
| M 32 | w. threading | | 76 | HDC 64D TSBU 1M32G | 1786770000 |




### Plug housing, cable entry at top

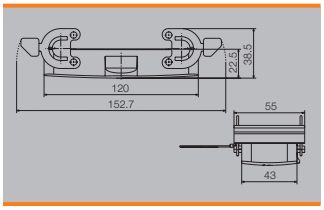
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 25 | w. threading | | 62.58 | HDC 24B TOBU 1M25G | 1787820000 |
| M 32 | w. threading | | 62.58 | HDC 24B TOBU 1M32G | 1787810000 |
| M 32 | w. threading | | 76 | HDC 64D TOBU 1M32G | 1786830000 |




### Cover

| Version | Type | Order No. |
|---|---|---|
| For hoods | HDC 24B DMDQ 2QB | 1665640000 |
| For hoods | HDC 24B DMDQ 2QB N | 2559760000 |

**Note** Note: N = Plastic locking lever with stainless steel inlay

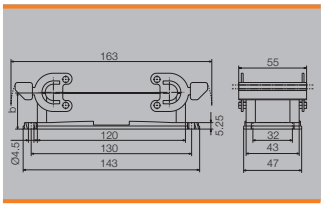



## Base

### Bulkhead housing

| | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| | | | 29.5 | HDC 24B ABU | 1212400000 |
| | | | 29.5 | HDC 24B ABU N | 2488600000 |

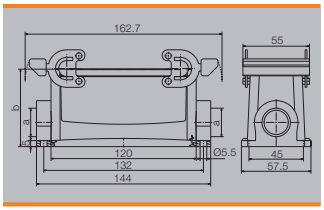
**Note** Note: N = Plastic locking lever with stainless steel inlay




### Base housing

| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 25 | w. threading | | 64 | HDC 24B SBU 2M25G | 1787870000 |
| M 25 | w. threading | | 64 | HDC 24B SBU 2M25G N | 2560970000 |
| M 25 | w. threading | | 84 | HDC 64D SBU 2M25G | 1786890000 |
| M 32 | w. threading | | 84 | HDC 64D SBU 2M25G N | 2561060000 |
| M 32 | w. threading | | 84 | HDC 64D SBU 1M32G N | 2561050000 |
| M 32 | w. threading | | 84 | HDC 64D SBU 2M32G | 1786880000 |

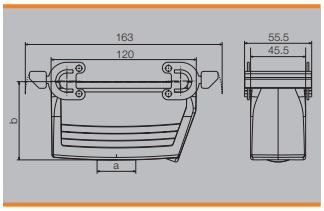
**Note** Note: N = Plastic locking lever with stainless steel inlay




### Coupling housing

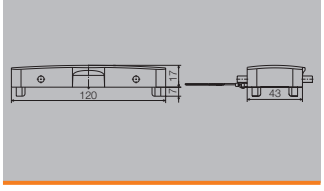
| a | Version | Cover | b (mm) | Type | Order No. |
|---|---|---|---|---|---|
| M 25 | w. threading | | 65 | HDC 24B KBU 1M25G | 1787920000 |
| M 25 | w. threading | | 65 | HDC 24B KBU 1M25G N | 2559870000 |
| M 32 | w. threading | | 65 | HDC 24B KBU 2M32G N | 2559880000 |
| M 32 | w. threading | | 79 | HDC 64D KBU 1M32G | 1786960000 |
| M 32 | w. threading | | 79 | HDC 64D KBU 1M32G N | 2559910000 |

**Note** Note: N = Plastic locking lever with stainless steel inlay




### Cover

| Version | Type | Order No. |
|---|---|---|
| For bases | HDC 24B DODQ 4BO | 1665630000 |



# RockStar® ModuPlug modular system


RockStar® ModuPlug modular system

Introduction C.2

RockStar® ModuPlug frames C.6

RockStar® ModuPlug modules C.8

RockStar® ModuPlug Field attachable data connector C.25

RockStar® ModuPlug data inserts C.28

RockStar® ModuPlug RJ45 modules C.36

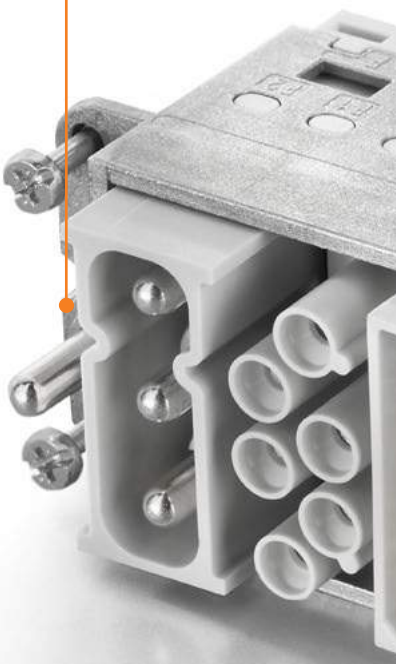
RockStar® ModuPlug pneumatic modules C.38

# RockStar® ModuPlug

## Great performance in the smallest of spaces

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

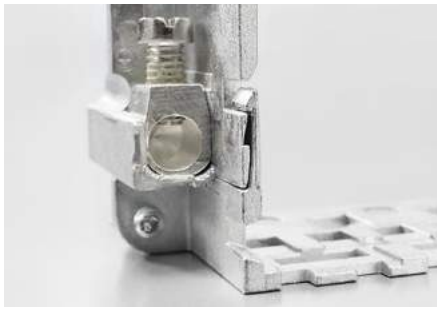
Not only does our RockStar® ModuPlug modular plug-in connector system meet current market requirements; it has been specially designed with the future in mind too. Thanks to the new variety of module sizes, you can fit more applications than ever before in one plug-in connector. The modules reduce the amount of space required and cut costs when compared with fixed-pole inserts and other modular plug-in connector systems.
The sophisticated frames and modules can be installed with extreme ease and integrated into HDC enclosures with the IP65 and IP68 protection classes. You can even use the RockStar® ModuPlug to supplement existing applications without any need to make system adjustments.



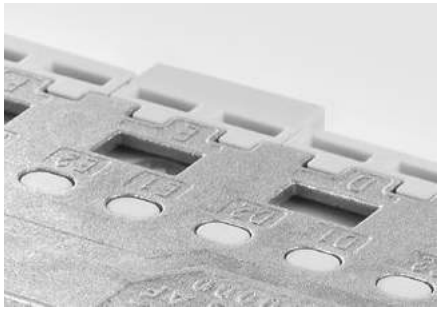
**Pneumatic modules**
The new pneumatic modules can be integrated into any connector configuration. They enable the safe and efficient supply of compressed air to drives, controls, braking systems, holding, and unloading devices.

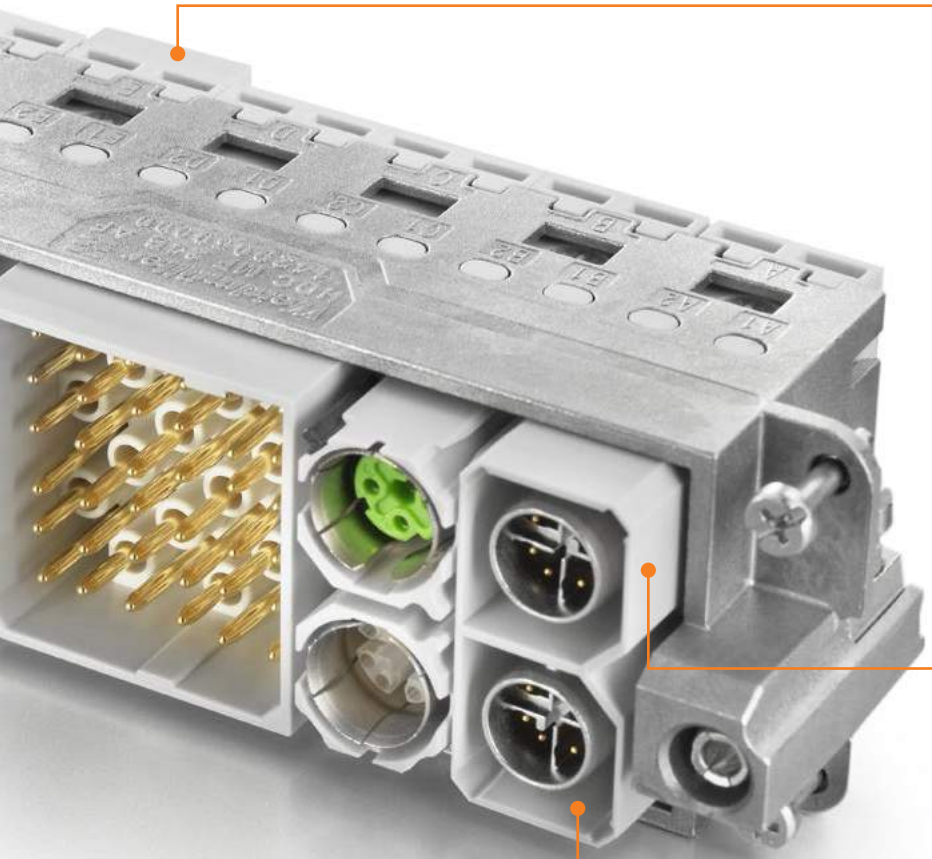
**Terminal block modules**
The new terminal block modules with PUSH IN connection technology open up unexpected possibilities – especially for distribution solutions in the otherwise unused area on the control cabinet wall. With up to 48 poles in one connector, they enable particularly efficient wiring from the field to the devices in the control cabinet.

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

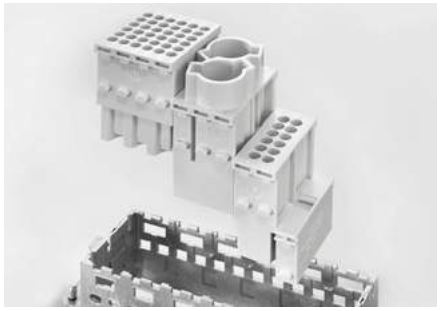


**Secure**
The round and rectangular coding on the frame enables intuitive module plug-in. The two-point fixation prevents incorrect connection and keeps the modules tilt and vibration-resistant.

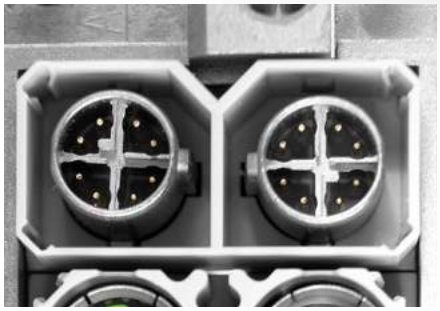




**Flexible**
The four module sizes make for individual plug solutions that save a huge amount of space. The smaller pitch translates into an optimised design too.



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



# RockStar® ModuPlug modular system

## Data inserts

| | | Size | Rated voltage | Rated current | No. of poles | Connection | Wire cross-section | Type | Order No. Male | Order No. Female | Page |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1.5 | 1,000 V | 200 A | 1 | Crimp | 25 – 70 mm² | HDC MHP 200 | 2548900000 | 2549260000 | C.8 |
| | | 1.5 | 1,000 V | 100 A | 2 | Crimp | 10 – 35 mm² | HDC MHP 100 | 1429060000 | 1429080000 | C.9 |
| | | 1 | 1,000 V | 70 A | 2 | Crimp | 6 – 25 mm² | HDC MHP 70 | 2668190000 | 2668180000 | C.10 |
| | | 1 | 830 V | 40 A | 4 | Crimp | 1.5 – 6 mm² | HDC MHX 4P | 1428950000 | 1428970000 | C.11 |
| | | 1 | 690 V | 40 A | 3 | Crimp | 1.5 – 10 mm² | HDC MHX 3 | 1429340000 | 1429350000 | C.12 |
| | | 1 | 830 V | 16 A | 6 | Crimp | 0.5 – 4 mm² | HDC MHE 6P | 1505650000 | 1505660000 | C.13 |
| | | 2 | 500 V | 16 A | 20 | Crimp | 0.5 – 4 mm² | HDC MHE 20 | 1428910000 | 1428930000 | C.14 |
| | | 1 | 400 V | 16 A | 8 | Crimp | 0.5 – 4 mm² | HDC MHE 8 | 1428880000 | 1428890000 | C.15 |
| | | 1 | 500 V | 16 A | 6 | Crimp | 0.5 – 4 mm² | HDC MHE 6 | 1429360000 | 1429370000 | C.16 |
| | | 1 | 400 V | 16 A | 5 | PUSH IN | 0.5 – 2.5 mm² | HDC MHE 5 | 2636180000 | 2636190000 | C.17 |
| | | 0.5 | 250 V | 16 A | 4 | PUSH IN | 0.5 – 2.5 mm² | HDC MHE 4 | 2635980000 | 2635990000 | C.18 |
| | | 0.5 | 250 V | 16 A | 4 | PUSH IN | 0.5 – 2.5 mm² | HDC MHE 4X | 2636070000 | 2636060000 | C.19 |

## Data inserts

| | | Size | Rated voltage | Rated current | No. of poles | Connection | Wire cross-section | Type | Order No. Male | Order No. Female | Page |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0.5 | 250 V | 16 A | 4 | PUSH IN | 0.5 – 2.5 mm² | HDC MHE 4X2 | 2635980000 | 2635990000 | C.20 |
| | | 2 | 250 V | 10 A | 36 | Crimp | 0.14 – 2.5 mm² | HDC MHD 36 | 1428860000 | 1428870000 | C.21 |
| | | 1 | 250 V | 10 A | 12 | Crimp | 0.14 – 2.5 mm² | HDC MHD 12 | 1428840000 | 1428850000 | C.22 |
| | | 1 | – | – | 2 | Data module | – | HDC MBUS 2 | 1428990000 | 1429020000 | C.23 |
| | | 0.5 | – | – | – | Dummy module | – | HDC MDU | 1429040000 | | C.24 |
| | | 1 | 50 V | 1 A | 1 | RJ45 module | | HDC MRJ45 | 2592250000 | 2592030000 | C.36 |
| | | 1 | – | – | 2 – 3 | Pneumatic module | | HDC MPN | 2637320000<br>2637340000 | | C.38 |

# RockStar® ModuPlug frames

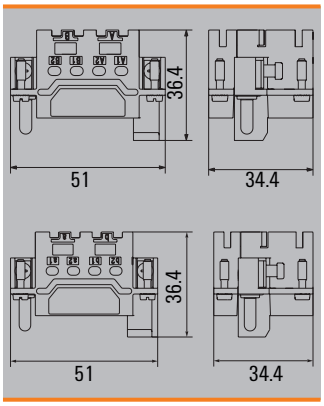
## Size 3

### ModuPlug® metal frame

### Frame

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

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



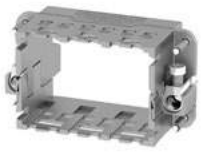

**Transport lock**

| Transport lock for ModuPlug® metal frame | |
|---|---|
| HDC MF FIXING | 1480290000 |

## Size 4

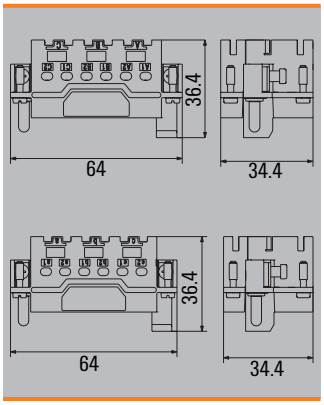
### ModuPlug® metal frame

### Frame



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

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




**Transport lock**

| Transport lock for ModuPlug® metal frame | |
|---|---|
| HDC MF FIXING | 1480290000 |

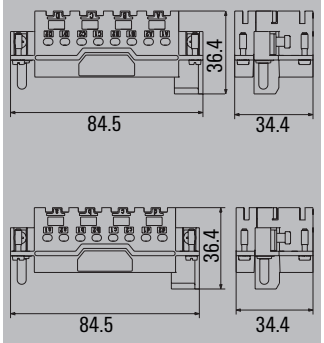
## Size 6

## ModuPlug® metal frame

### Frame

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

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




**Transport lock**

| Transport lock for ModuPlug® metal frame | |
|---|---|
| HDC MF FIXING | 1480290000 |

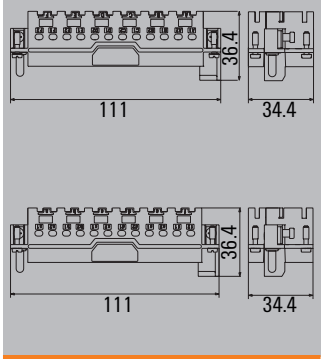
## Size 8

## ModuPlug® metal frame

### Frame

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

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




**Transport lock**

| Transport lock for ModuPlug® metal frame | |
|---|---|
| HDC MF FIXING | 1480290000 |

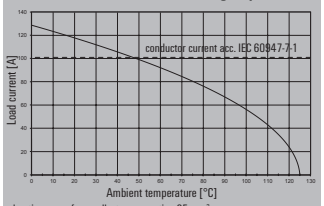
## ModuPlug®
## HDC MHP 200

### Technical data

| Contact inserts | |
|---|---|
| Number of poles | 1 |
| Rated current (DIN EN 61984) | 200 A |
| Rated voltage (DIN EN 61984) | 1000 V |
| Rated impulse voltage (DIN EN 61984) | 8 kV |
| Pollution severity | 3 |
| Rated voltage according to UL/CSA | 600 V |
| Insulation strength | $10^{12}$ Ω |
| Surge voltage category | III |
| Limit temperature | -40 °C ... 125 °C |
| UL 94 flammability rating | V-0 |
| Plugging cycles | ≥ 500 |
| Material | Polycarbonate, glass fibre reinforced |
| Required plug-in slots | 1.5 |

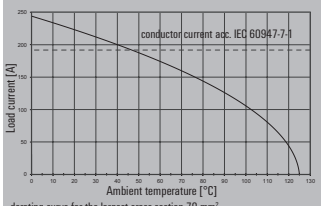
**Note**

**HP 200 with H07V-K25 / IP65 housing / 4 poles**




derating curve for smallest cross-section 25 mm²

**HP 200 / IP65 housing / 4 poles**

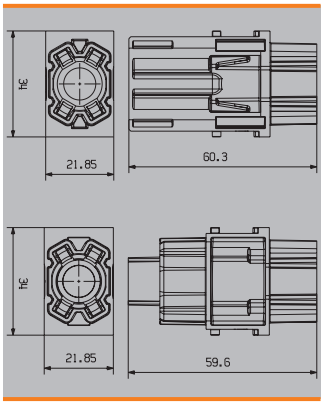



derating curve for the largest cross-section 70 mm²

**Crimp connection**

| Deployment | Type | Order No. |
|---|---|---|
| Pin | HDC MHP 200 MC | **2548900000** |
| Female | HDC MHP 200 FC | **2549260000** |

**Note**

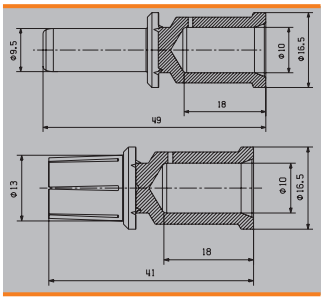



### Accessories

**Crimping contact**

Surface finish silver

| Male | | | Female | |
|---|---|---|---|---|
| Qty. | Type | Order No. | Type | Order No. |
| 10 | HDC MHP200 M 25 | **2514860000** | HDC MHP200 F 25 | **2514820000** |
| 10 | HDC MHP200 M 35 | **2514870000** | HDC MHP200 F 35 | **2514830000** |
| 10 | HDC MHP200 M 50 | **2514880000** | HDC MHP200 F 50 | **2514840000** |
| 10 | HDC MHP200 M 70 | **2514890000** | HDC MHP200 F 70 | **2514850000** |




**EPG 45**

| Contact Removal Tool | |
|---|---|
| HDC MHP200 REMOVAL TOOL | **2617240000** |
| **Pressing tool** | |
| EPG 45 | **1500830000** |
| **Note** | Overview of the crimp inserts in the chapter RockStar® Accessories, tools and cable entries. |

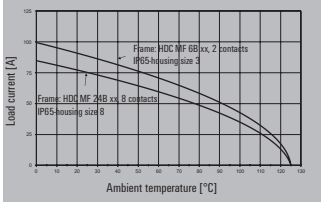
## ModuPlug®
## HDC MHP 100

### Technical data

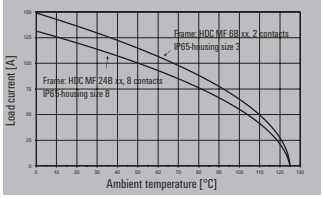
| Contact inserts | |
|---|---|
| Number of poles | 2 |
| Rated current (DIN EN 61984) | 100 A |
| Rated voltage (DIN EN 61984) | 1000 V |
| Rated impulse voltage (DIN EN 61984) | 8 kV |
| Pollution severity | 3 |
| Rated voltage according to UL/CSA | 600 V |
| Insulation strength | $10^{12}$ Ω |
| Surge voltage category | III |
| Limit temperature | -40 °C ... 125 °C |
| UL 94 flammability rating | V-0 |
| Plugging cycles | ≥ 500 |
| Material | Polycarbonate, glass fibre reinforced |
| Required plug-in slots | 1.5 |

**Note**

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



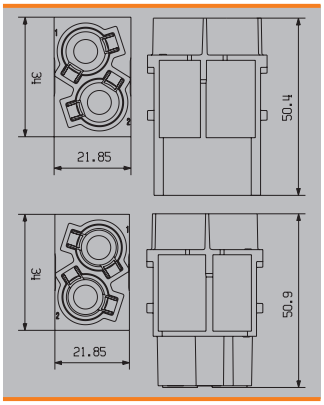

**HDC-MHP100-modules in the IP65-housing, Conductor H07V-K35:**




**Crimp connection**

| Deployment | Type | Order No. |
|---|---|---|
| Pin | HDC MHP 100 MC | 1429060000 |
| Female | HDC MHP 100 FC | 1429080000 |

**Note**

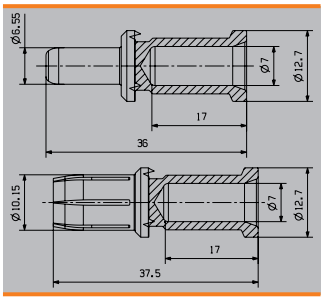



### Accessories

**Crimping contact**

Surface finish silver

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




**EPG 45**

| Contact Removal Tool | |
|---|---|
| HDC MHP REMOVAL TOOL | 1480380000 |
| **Pressing tool** | |
| EPG 45 | 1500830000 |

**Note** Overview of the crimp inserts in the chapter RockStar® Accessories, tools and cable entries.

# RockStar® ModuPlug modules

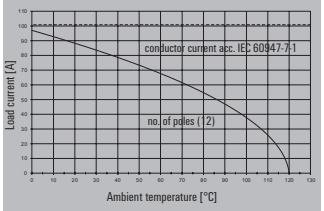
## ModuPlug®
## HDC MHP 70

### Technical data

| Contact inserts | |
|---|---|
| Number of poles | 2 |
| Rated current (DIN EN 61984) | 70 A |
| Rated voltage (DIN EN 61984) | 1000 V |
| Rated impulse voltage (DIN EN 61984) | 8 kV |
| Pollution severity | 3 |
| Rated voltage according to UL/CSA | 600 V |
| Insulation strength | $10^{12}$ Ω |
| Surge voltage category | III |
| Limit temperature | -40 °C ... 125 °C |
| UL 94 flammability rating | V-0 |
| Plugging cycles | ≥ 500 |
| Material | Polycarbonate, glass fibre reinforced |
| Required plug-in slots | 1 |

**Note**

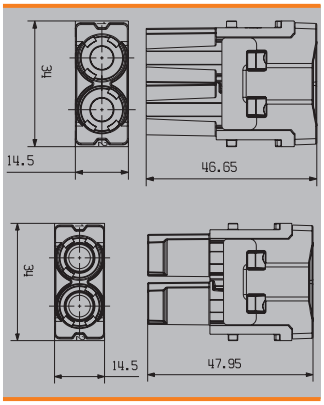
HP MHP 70 / H07V-K25




**Crimp connection**

| Deployment | Type | Order No. |
|---|---|---|
| Male | HDC MHP 70 MC | 2668190000 |
| Female | HDC MHP 70 FC | 2668180000 |

**Note**

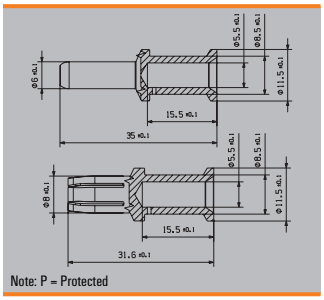



### Accessories

**Crimping contact**

Surface finish silver

| Male | | | Female | |
|---|---|---|---|---|
| Qty. | Type | Order No. | Type | Order No. |
| 10 | HDC MHP70 M 6 | 2668280000 | HDC MHP70 F 6 | 2668210000 |
| 10 | HDC MHP70 M 6 P | 2691190000 | HDC MHP70 F 10 | 2668200000 |
| 10 | HDC MHP70 M 10 | 2668350000 | HDC MHP70 F 16 | 2668220000 |
| 10 | HDC MHP70 M 10 P | 2691240000 | HDC MHP70 F 25 | 2668260000 |
| 10 | HDC MHP70 M 16 | 2668360000 | | |
| 10 | HDC MHP70 M 16 P | 2691250000 | | |
| 10 | HDC MHP70 M 25 | 2668370000 | | |
| 10 | HDC MHP70 M 25 P | 2691260000 | | |




Note: P = Protected

**EPG 45**

| Pressing tool | |
|---|---|
| EPG 45 | 1500830000 |

| Note | Overview of the crimp inserts in the chapter RockStar® Accessories, tools and cable entries. |
|---|---|

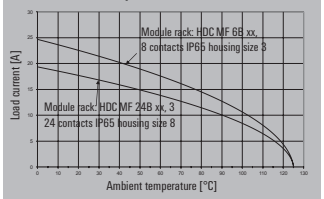
## ModuPlug®
## HDC MHX 4P

### Technical data

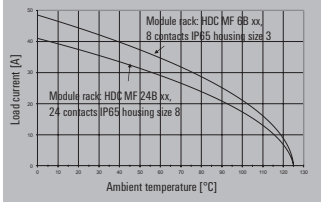
| Contact inserts | |
|---|---|
| Number of poles | 4 |
| Rated current (DIN EN 61984) | 40 A |
| Rated voltage (DIN EN 61984) | 830 V |
| Rated impulse voltage (DIN EN 61984) | 8 kV |
| Pollution severity | 3 |
| Rated voltage according to UL/CSA | 600 V |
| Insulation strength | $10^{12}$ Ω |
| Surge voltage category | III |
| Limit temperature | -40 °C ... 125 °C |
| UL 94 flammability rating | V-0 |
| Plugging cycles | ≥ 500 |
| Material | Polycarbonate, glass fibre reinforced |
| Required plug-in slots | 1 |

**Note**

**HDC-MHX 4P - modules in IP65 housing / H07V-K1.5 / 8 or 24 poles**



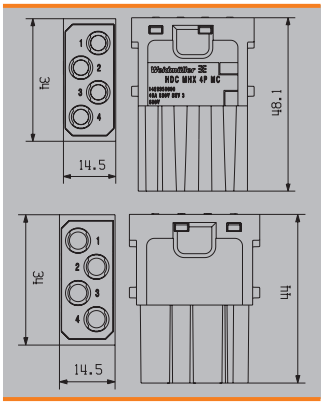

**HDC-MHX 4P - modules in IP65 housing / H07V-K6.0 / 8 or 24 poles**




**Crimp connection**

| Deployment | Type | Order No. |
|---|---|---|
| Pin | HDC MHX 4P MC | 1428950000 |
| Female | HDC MHX 4P FC | 1428970000 |

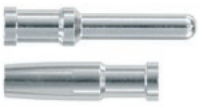
**Note**




### Accessories

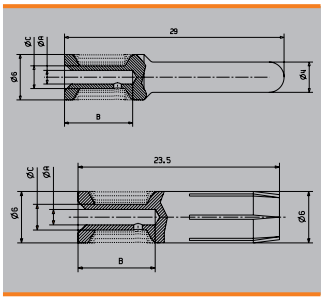
**Crimping contact**

Surface finish 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**

| Contact Removal Tool | | |
|---|---|---|
| REMOVAL TOOL HX | | 1002990000 |
| **Pressing tool** | | |
| CTIN CM 1.6/2.5 | | 9205430000 |
| **Note** | Overview of the crimp inserts in the chapter RockStar® Accessories, tools and cable entries. | |

# RockStar® ModuPlug modules

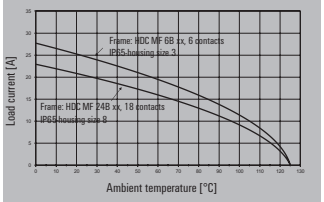
## ModuPlug®
## HDC MHX 3

### Technical data

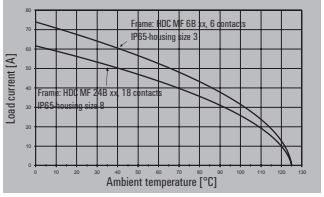
| Contact inserts | |
|---|---|
| Number of poles | 3 |
| Rated current (DIN EN 61984) | 40 A |
| Rated voltage (DIN EN 61984) | 690 V |
| Rated impulse voltage (DIN EN 61984) | 8 kV |
| Pollution severity | 3 |
| Rated voltage according to UL/CSA | 600 V |
| Insulation strength | $10^{12}$ Ω |
| Surge voltage category | III |
| Limit temperature | -40 °C ... 125 °C |
| UL 94 flammability rating | V-0 |
| Plugging cycles | ≥ 500 |
| Material | Polycarbonate, glass fibre reinforced |
| Required plug-in slots | 1 |

**Note**

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



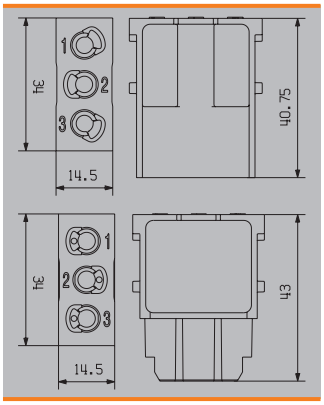

**HDC-MHX 3-modules in the IP65-housing, Conductor H07V-K10:**




**Crimp connection**

| Deployment | Type | Order No. |
|---|---|---|
| Pin | HDC MHX 3 MC | 1429340000 |
| Female | HDC MHX 3 FC | 1429350000 |

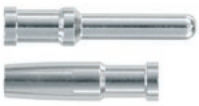
**Note**



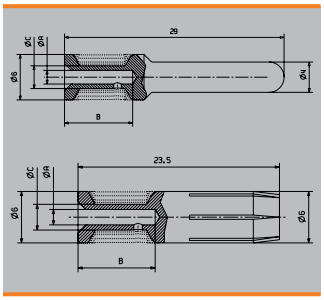

### Accessories

**Crimping contact**

Surface finish 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 |
| 25 | HDC C MHX SM10.0AG | 2494550000 | HDC C MHX BM10.0AG | 2494560000 |




**Tools**

| Contact Removal Tool | |
|---|---|
| REMOVAL TOOL HX | 1002990000 |
| **Pressing tool** | |
| CTIN CM 1.6/2.5 | 9205430000 |

**Note** Overview of the crimp inserts in the chapter RockStar® Accessories, tools and cable entries.

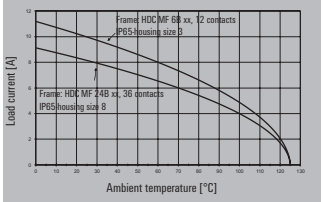
## ModuPlug®
## HDC MHE 6P

### Technical data

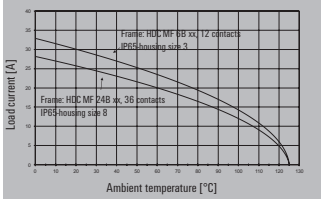
| Contact inserts | |
|---|---|
| Number of poles | 6 |
| Rated current (DIN EN 61984) | 16 A |
| Rated voltage (DIN EN 61984) | 830 V |
| Rated impulse voltage (DIN EN 61984) | 8 kV |
| Pollution severity | 3 |
| Rated voltage according to UL/CSA | 600 V |
| Insulation strength | $10^{12}$ Ω |
| Surge voltage category | III |
| Limit temperature | -40 °C ... 125 °C |
| UL 94 flammability rating | V-0 |
| Plugging cycles | ≥ 500 |
| Material | Polycarbonate, glass fibre reinforced |
| Required plug-in slots | 1 |

**Note**

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



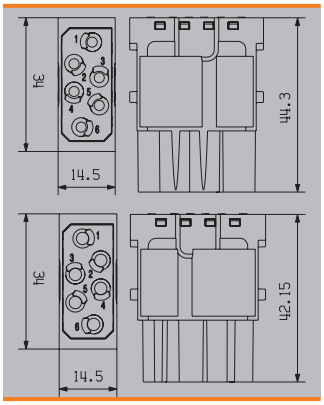

**HDC-MHE 6P-modules in the IP65-housing, Conductor H07V-K4.0:**




**Crimp connection**

| Deployment | Type | Order No. |
|---|---|---|
| Pin | HDC MHE 6P MC | 1505650000 |
| Female | HDC MHE 6P FC | 1505660000 |

**Note**



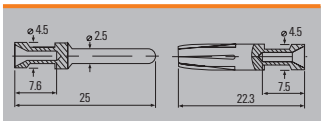

### Accessories

**Crimping contact**

Surface finish gold

Surface finish silver

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




| Conductor cross-section | | Insulation stripping length |
|---|---|---|
| 0.50 mm² | AWG 20 | 7.5 mm |
| 0.75 – 1.00 mm² | AWG 18 | 7.5 mm |
| 1.50 mm² | AWG 16 | 7.5 mm |
| 2.50 mm² | AWG 14 | 7.5 mm |
| 4.00 mm² | AWG 12 | 7.5 mm |

**Tools**

| Pressing tool | |
|---|---|
| CTX CM 1.6/2.5 | 9018490000 |
| CTIN CM 1.6/2.5 | 9205430000 |
| **Contact Removal Tool** | |
| REMOVAL TOOL HE | 1866750000 |

**Note** Overview of the crimp inserts in the chapter RockStar® Accessories, tools and cable entries.

# RockStar® ModuPlug modules

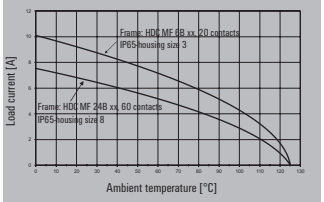
## ModuPlug®
## HDC MHE 20

### Technical data

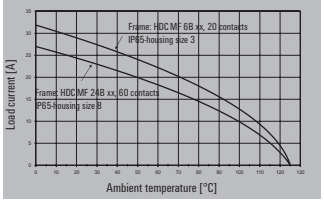
| Contact inserts | |
|---|---|
| Number of poles | 20 |
| Rated current (DIN EN 61984) | 16 A |
| Rated voltage (DIN EN 61984) | 500 V |
| Rated impulse voltage (DIN EN 61984) | 6 kV |
| Pollution severity | 3 |
| Rated voltage according to UL/CSA | 600 V |
| Insulation strength | $10^{12}$ Ω |
| Surge voltage category | III |
| Limit temperature | -40 °C ... 125 °C |
| UL 94 flammability rating | V-0 |
| Plugging cycles | ≥ 500 |
| Material | Polycarbonate, glass fibre reinforced |
| Required plug-in slots | 2 |

**Note**

**HDC-MHE 20-modules in the IP65-housing, Conductor H05V-K0.5:**



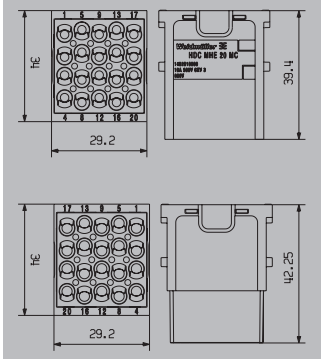

**HDC-MHE 20-moduls in the IP65-housing, Conductor H07V-K4.0:**




**Crimp connection**

| Deployment | Type | Order No. |
|---|---|---|
| Pin | HDC MHE 20 MC | **1428910000** |
| Female | HDC MHE 20 FC | **1428930000** |

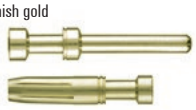
**Note**




### Accessories

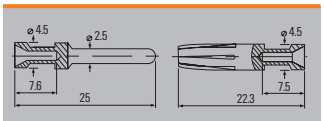
**Crimping contact**

Surface finish gold



Surface finish silver

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




| Conductor cross-section | | Insulation stripping length |
|---|---|---|
| 0.50 mm² | AWG 20 | 7.5 mm |
| 0.75 – 1.00 mm² | AWG 18 | 7.5 mm |
| 1.50 mm² | AWG 16 | 7.5 mm |
| 2.50 mm² | AWG 14 | 7.5 mm |
| 4.00 mm² | AWG 12 | 7.5 mm |

**Tools**

| Pressing tool | |
|---|---|
| CTX CM 1.6/2.5 | **9018490000** |
| CTIN CM 1.6/2.5 | **9205430000** |
| **Contact Removal Tool** | |
| REMOVAL TOOL HE | **1866750000** |

**Note** Overview of the crimp inserts in the chapter RockStar® Accessories, tools and cable entries.

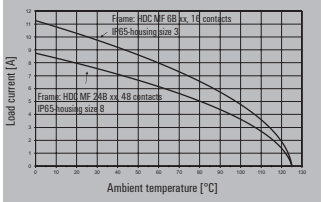
## ModuPlug®
## HDC MHE 8

### Technical data

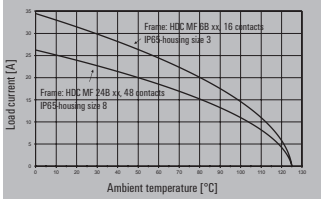
| Contact inserts | |
|---|---|
| Number of poles | 8 |
| Rated current (DIN EN 61984) | 16 A |
| Rated voltage (DIN EN 61984) | 400 V |
| Rated impulse voltage (DIN EN 61984) | 6 kV |
| Pollution severity | 3 |
| Rated voltage according to UL/CSA | 600 V |
| Insulation strength | $10^{12}$ Ω |
| Surge voltage category | III |
| Limit temperature | -40 °C ... 125 °C |
| UL 94 flammability rating | V-0 |
| Plugging cycles | ≥ 500 |
| Material | Polycarbonate, glass fibre reinforced |
| Required plug-in slots | 1 |

**Note**

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



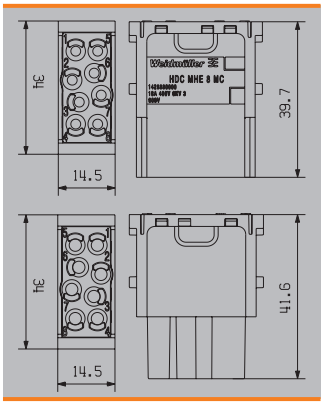

**HDC-MHE 8-modules in the IP65-housing, Conductor H07V-K4.0:**




**Crimp connection**

| Deployment | Type | Order No. |
|---|---|---|
| Pin | HDC MHE 8 MC | 1428880000 |
| Female | HDC MHE 8 FC | 1428890000 |

**Note**



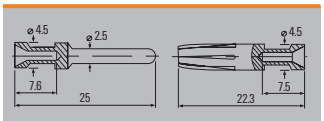

### Accessories

**Crimping contact**

Surface finish gold

Surface finish silver

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




| Conductor cross-section | Insulation stripping length | |
|---|---|---|
| 0.50 mm² | AWG 20 | 7.5 mm |
| 0.75 – 1.00 mm² | AWG 18 | 7.5 mm |
| 1.50 mm² | AWG 16 | 7.5 mm |
| 2.50 mm² | AWG 14 | 7.5 mm |
| 4.00 mm² | AWG 12 | 7.5 mm |

**Tools**

| Pressing tool | |
|---|---|
| CTX CM 1.6/2.5 | 9018490000 |
| CTIN CM 1.6/2.5 | 9205430000 |
| **Contact Removal Tool** | |
| REMOVAL TOOL HE | 1866750000 |
| **Note** | Overview of the crimp inserts in the chapter RockStar® Accessories, tools and cable entries. |

# RockStar® ModuPlug modules

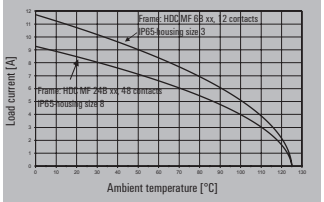
## ModuPlug®
## HDC MHE 6

### Technical data

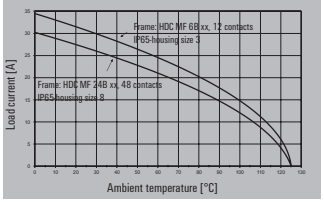
| Contact inserts | |
|---|---|
| Number of poles | 6 |
| Rated current (DIN EN 61984) | 16 A |
| Rated voltage (DIN EN 61984) | 500 V |
| Rated impulse voltage (DIN EN 61984) | 6 kV |
| Pollution severity | 3 |
| Rated voltage according to UL/CSA | 600 V |
| Insulation strength | $10^{12}$ Ω |
| Surge voltage category | III |
| Limit temperature | -40 °C ... 125 °C |
| UL 94 flammability rating | V-0 |
| Plugging cycles | ≥ 500 |
| Material | Polycarbonate, glass fibre reinforced |
| Required plug-in slots | 1 |

**Note**

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



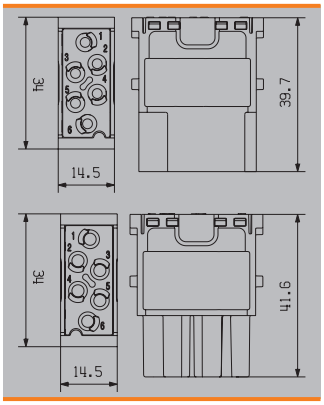

**HDC-MHE 6-modules in the IP65-housing, Conductor H07V-K4.0:**




**Crimp connection**

| Deployment | Type | Order No. |
|---|---|---|
| Pin | HDC MHE 6 MC | 1429360000 |
| Female | HDC MHE 6 FC | 1429370000 |

**Note**



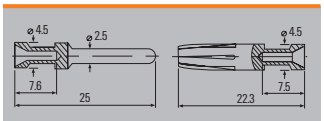

### Accessories

**Crimping contact**

Surface finish gold

Surface finish silver

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




| Conductor cross-section | | Insulation stripping length |
|---|---|---|
| 0.50 mm² | AWG 20 | 7.5 mm |
| 0.75 – 1.00 mm² | AWG 18 | 7.5 mm |
| 1.50 mm² | AWG 16 | 7.5 mm |
| 2.50 mm² | AWG 14 | 7.5 mm |
| 4.00 mm² | AWG 12 | 7.5 mm |

**Tools**

| Pressing tool | |
|---|---|
| CTX CM 1.6/2.5 | 9018490000 |
| CTIN CM 1.6/2.5 | 9205430000 |
| **Contact Removal Tool** | |
| REMOVAL TOOL HE | 1866750000 |

**Note** Overview of the crimp inserts in the chapter RockStar® Accessories, tools and cable entries.

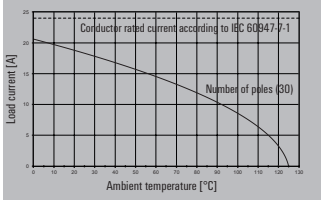
## ModuPlug®
## HDC MHE 5 PUSH IN

### Technical data

| Contact inserts | |
|---|---|
| Number of poles | 5 |
| Rated current (DIN EN 61984) | 16 A |
| Rated voltage (DIN EN 61984) | 400 V |
| Rated impulse voltage (DIN EN 61984) | 6 kV |
| Pollution severity | 3 |
| Rated voltage according to UL/CSA | 600 V |
| Insulation strength | $10^{12}$ Ω |
| Surge voltage category | III |
| Limit temperature | -40 °C ... 125 °C |
| UL 94 flammability rating | V-0 |
| Plugging cycles | ≥ 500 |
| Material | Polycarbonate, glass fibre reinforced |
| Required plug-in slots | 1 |
| Line connection cross-section | 0.5...2.5 mm² |

**Note**

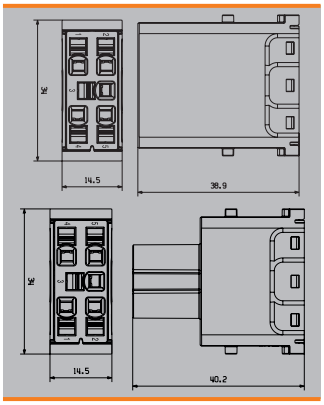
**HDC MHE 5 FP with HDC MHE 5 MP / H07V-K2.5**




**PUSH IN with actuator**

| Deployment | Type | Order No. |
|---|---|---|
| Pin | HDC MHE 5 MP | **2636180000** |
| Female | HDC MHE 5 FP | **2636190000** |

**Note**



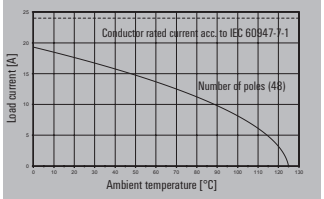
# RockStar® ModuPlug modules

## ModuPlug®
## HDC MHE 4 PUSH IN

### Technical data

| Contact inserts | |
|---|---|
| Number of poles | 4 |
| Number of potentials | 4 |
| Rated current (DIN EN 61984) | 16 A |
| Rated voltage (DIN EN 61984) | 250 V |
| Rated impulse voltage (DIN EN 61984) | 4 kV |
| Pollution severity | 3 |
| Rated voltage according to UL/CSA | 600 V |
| Insulation strength | $10^{12}$ Ω |
| Surge voltage category | III |
| Limit temperature | -40 °C ... 125 °C |
| UL 94 flammability rating | V-0 |
| Plugging cycles | ≥ 500 |
| Material | Polycarbonate, glass fibre reinforced |
| Required plug-in slots | 0.5 |
| Line connection cross-section | 0.5...2.5 mm² |
| **Note** | |

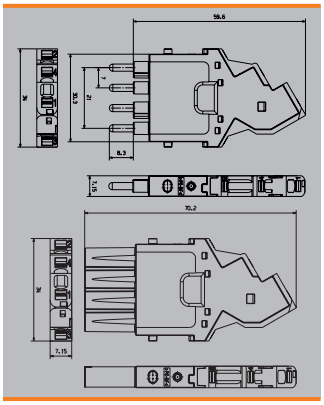
**HDC MHE 4 FP with HDC MHE 4 MP / H07V-K2.5**




**PUSH IN with actuator**

| Deployment | Type | Order No. |
|---|---|---|
| Pin | HDC MHE 4 MP | **2635980000** |
| Female | HDC MHE 4 FP | **2635990000** |

**Note**

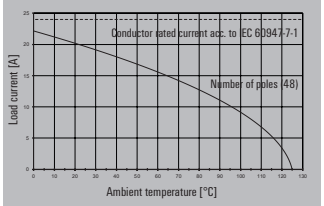


## ModuPlug®
## HDC MHE 4X PUSH IN

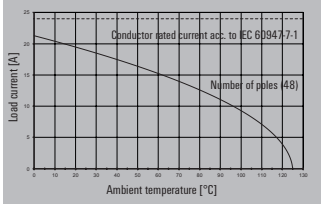
### Technical data

| Contact inserts | |
|---|---|
| Number of poles | 4 |
| Number of potentials | 4 |
| Rated current (DIN EN 61984) | 16 A |
| Rated voltage (DIN EN 61984) | 250 V |
| Rated impulse voltage (DIN EN 61984) | 4 kV |
| Pollution severity | 3 |
| Rated voltage according to UL/CSA | 600 V |
| Insulation strength | $10^{12}$ Ω |
| Surge voltage category | III |
| Limit temperature | -40 °C ... 125 °C |
| UL 94 flammability rating | V-0 |
| Plugging cycles | ≥ 500 |
| Material | Polycarbonate, glass fibre reinforced |
| Required plug-in slots | 0.5 |
| Line connection cross-section | 0.5...2.5 mm² |
| **Note** | |

HDC MHE 4X MP with HDC MHE 4FP / H07V-K2.5



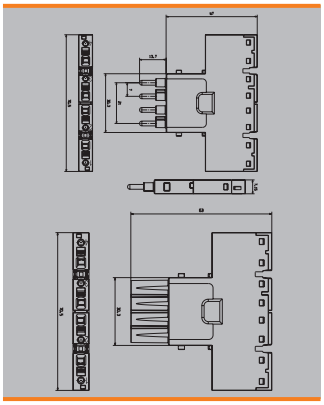

HDC MHE 4X FP with HDC MHE 4MP / H07V-K2.5




**PUSH IN with actuator**

| Deployment | Type | Order No. |
|---|---|---|
| Pin | HDC MHE 4X MP | 2636070000 |
| Female | HDC MHE 4X FP | 2636060000 |

**Note**



**Accessories**

| Markers | |
|---|---|
| HDC MMARK 4 | 2710590000 |
| **Cross connections** | |
| HDC MXCC2 4X | 2709710000 |
| HDC MXCC3 4X | 2709720000 |
| HDC MXCC4 4X | 2709730000 |
| HDC MXCC5 4X | 2709740000 |
| HDC MXCC6 4X | 2709750000 |
| HDC MXCC7 4X | 2709770000 |
| HDC MXCC8 4X | 2709780000 |
| HDC MXCC9 4X | 2709790000 |
| HDC MXCC10 4X | 2709800000 |
| HDC MXCC11 4X | 2709810000 |
| HDC MXCC12 4X | 2709820000 |
| **Note** | |

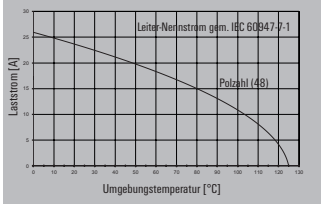
# RockStar® ModuPlug modules

## ModuPlug®
## HDC MHE 4X2 PUSH IN

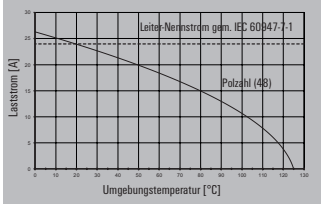
### Technical data

| Contact inserts | |
|---|---|
| Number of poles | 4 |
| Number of potentials | 2 |
| Rated current (DIN EN 61984) | 16 A |
| Rated voltage (DIN EN 61984) | 250 V |
| Rated impulse voltage (DIN EN 61984) | 4 kV |
| Pollution severity | 3 |
| Rated voltage according to UL/CSA | 600 V |
| Insulation strength | $10^{12}$ Ω |
| Surge voltage category | III |
| Limit temperature | -40 °C ... 125 °C |
| UL 94 flammability rating | V-0 |
| Plugging cycles | ≥ 500 |
| Material | Polycarbonate, glass fibre reinforced |
| Required plug-in slots | 0.5 |
| Line connection cross-section | 0.5...2.5 mm² |
| **Note** | |

**HDC MHE 4X2 MP mit HDC MHE 4FP / H07V-K2,5**

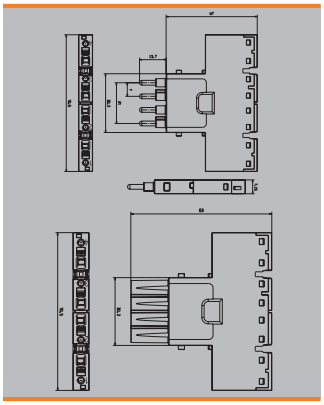



**HDC MHE 4X2 FP mit HDC MHE 4MP / H07V-K2,5**




**PUSH IN with actuator**

| Deployment | Type | Order No. |
|---|---|---|
| Pin | HDC MHE 4X2 MP | 2636090000 |
| Female | HDC MHE 4X2 FP | 2636080000 |
| **Note** | | |



**Accessories**

| Markers | |
|---|---|
| HDC MMARK 4 | 2710590000 |
| **Cross connections** | |
| HDC MXCC2 4X | 2709710000 |
| HDC MXCC3 4X | 2709720000 |
| HDC MXCC4 4X | 2709730000 |
| HDC MXCC5 4X | 2709740000 |
| HDC MXCC6 4X | 2709750000 |
| HDC MXCC7 4X | 2709770000 |
| HDC MXCC8 4X | 2709780000 |
| HDC MXCC9 4X | 2709790000 |
| HDC MXCC10 4X | 2709800000 |
| HDC MXCC11 4X | 2709810000 |
| HDC MXCC12 4X | 2709820000 |
| **Note** | |

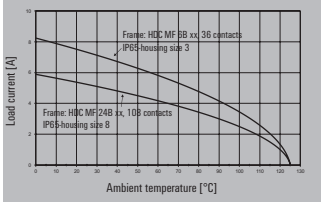
## ModuPlug®
## HDC MHD 36

### Technical data

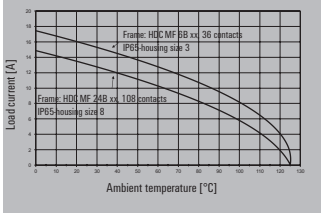
| Contact inserts | |
|---|---|
| Number of poles | 36 |
| Rated current (DIN EN 61984) | 10 A |
| Rated voltage (DIN EN 61984) | 250 V |
| Rated impulse voltage (DIN EN 61984) | 4 kV |
| Pollution severity | 3 |
| Rated voltage according to UL/CSA | 600 V |
| Insulation strength | $10^{12}$ Ω |
| Surge voltage category | III |
| Limit temperature | -40 °C ... 125 °C |
| UL 94 flammability rating | V-0 |
| Plugging cycles | ≥ 500 |
| Material | Polycarbonate, glass fibre reinforced |
| Required plug-in slots | 2 |

**Note**

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




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

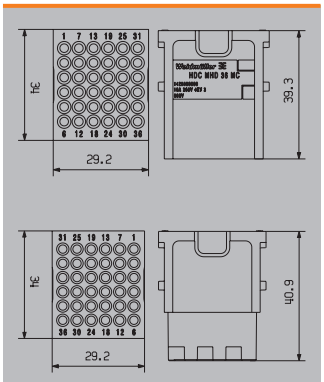



### Modules

**Crimp connection**

| Deployment | Type | Order No. |
|---|---|---|
| Pin | HDC MHD 36 MC | 1428860000 |
| Female | HDC MHD 36 FC | 1428870000 |

**Note**



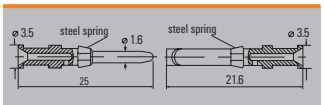

### Accessories

**Crimping contact**

Surface finish gold

Surface finish 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-SM0.75-1.00AU | 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 mm² | AWG 26-22 | 8 mm |
| 0.50 mm² | AWG 20 | 8 mm |
| 0.75 – 1.00 mm² | AWG 18 | 8 mm |
| 1.50 mm² | AWG 16 | 8 mm |
| 2.50 mm² | AWG 14 | 6 mm |

**Tools**

| Pressing tool | |
|---|---|
| CTX CM 1.6/2.5 | 9018490000 |
| CTIN CM 1.6/2.5 | 9205430000 |
| **Contact Removal Tool** | |
| REMOVAL TOOL HD | 1866730000 |

**Note** Overview of the crimp inserts in the chapter RockStar® Accessories, tools and cable entries.

# RockStar® ModuPlug modules

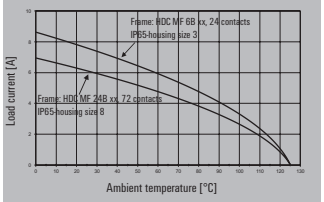
## ModuPlug®
## HDC MHD 12

### Technical data

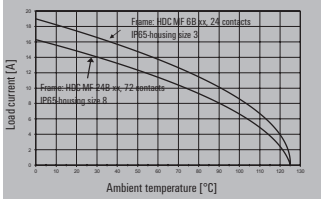
| Contact inserts | |
|---|---|
| Number of poles | 12 |
| Rated current (DIN EN 61984) | 10 A |
| Rated voltage (DIN EN 61984) | 250 V |
| Rated impulse voltage (DIN EN 61984) | 4 kV |
| Pollution severity | 3 |
| Rated voltage according to UL/CSA | 600 V |
| Insulation strength | $10^{12}$ Ω |
| Surge voltage category | III |
| Limit temperature | -40 °C ... 125 °C |
| UL 94 flammability rating | V-0 |
| Plugging cycles | ≥ 500 |
| Material | Polycarbonate, glass fibre reinforced |
| Required plug-in slots | 1 |

**Note**

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



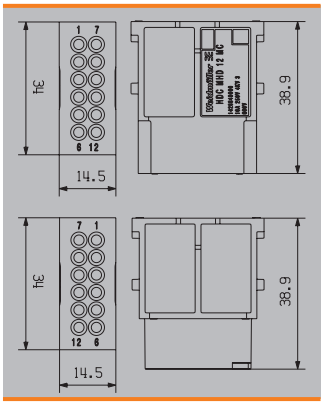

**HDC-MHD 12-modules in the IP65-housing, Conductor H07V-K2.5:**




**Crimp connection**

| Deployment | Type | Order No. |
|---|---|---|
| Pin | HDC MHD 12 MC | 1428840000 |
| Female | HDC MHD 12 FC | 1428850000 |

**Note**



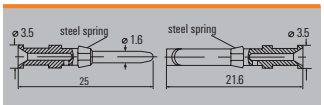

### Accessories

**Crimping contact**

Surface finish gold

Surface finish 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-SM0.75-1.00AU | 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 mm² | AWG 26-22 | 8 mm |
| 0.50 mm² | AWG 20 | 8 mm |
| 0.75 – 1.00 mm² | AWG 18 | 8 mm |
| 1.50 mm² | AWG 16 | 8 mm |
| 2.50 mm² | AWG 14 | 6 mm |

**Tools**

| Pressing tool | |
|---|---|
| CTX CM 1.6/2.5 | 9018490000 |
| CTIN CM 1.6/2.5 | 9205430000 |
| **Contact Removal Tool** | |
| REMOVAL TOOL HD | 1866730000 |

**Note** Overview of the crimp inserts in the chapter RockStar® Accessories, tools and cable entries.

## ModuPlug®
## HDC MBUS 2

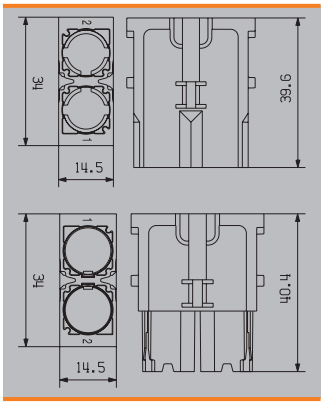
### Technical data

| Contact inserts | |
|---|---|
| Number of poles | 2 |
| Rated current (DIN EN 61984) | |
| Rated voltage (DIN EN 61984) | |
| Rated impulse voltage (DIN EN 61984) | |
| Pollution severity | 3 |
| Rated voltage according to UL/CSA | |
| Insulation strength | $10^{12}$ Ω |
| Surge voltage category | III |
| Limit temperature | -40 °C ... 125 °C |
| UL 94 flammability rating | V-0 |
| Plugging cycles | ≥ 500 |
| Material | Polycarbonate, glass fibre reinforced |
| Required plug-in slots | 1 |

**Note**

| Deployment | Type | Order No. |
|---|---|---|
| Pin | HDC MBUS 2 MC | 1428990000 |
| Female | HDC MBUS 2 FC | 1429020000 |

**Note**




**Fixing clip**

| Fixing clip | |
|---|---|
| HDC MBUS 2 MCLIP | 1989290000 |
| HDC MBUS 2 PCLIP | 1989300000 |

**Note** MCLIP = metal version; PCLIP = plastic version

# RockStar® ModuPlug modules

## ModuPlug®
## HDC MDU

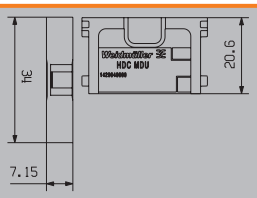
### Technical data

| Contact inserts | |
|---|---|
| Number of poles | 0 |
| Rated current (DIN EN 61984) | |
| Rated voltage (DIN EN 61984) | |
| Rated impulse voltage (DIN EN 61984) | |
| Pollution severity | 3 |
| Rated voltage according to UL/CSA | |
| Insulation strength | |
| Surge voltage category | |
| Limit temperature | -40 °C ... 125 °C |
| UL 94 flammability rating | V-0 |
| Plugging cycles | ≥ 500 |
| Material | Polycarbonate, glass fibre reinforced |
| Required plug-in slots | 0.5 |

**Note**

| Deployment | Type | Order No. |
|---|---|---|
| other | HDC MDU | 1429040000 |

**Note**



## Cat. 5, D-Type

### Technical data

| Contact inserts | |
|---|---|
| Number of poles | 4 |
| Rated current | 4 A |
| Rated voltage | 250 V |
| Category | Cat. 5e |
| Pollution severity | 2 |
| Transmission rate | 100 MBit/s |
| Insulation strength | ≥ 100 MΩ |
| Coding | D |
| Limit temperature | -40 °C ... 90 °C |
| Plugging cycles | 100 |

**Note**

| Deployment | Type | Qty. | Order No. |
|---|---|---|---|
| Pin | HDC MBUS4 D5E MC | 2 | 2427920000 |
| Female | HDC MBUS4 D5E FC | 2 | 2427930000 |

**Note**

### Accessories

**Crimping contact**

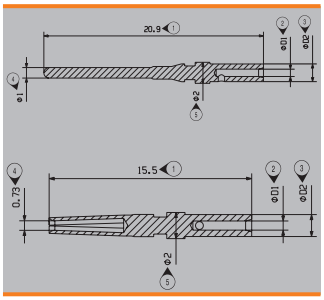
Surface finish gold

**Male**

| Qty. | Type | Order No. |
|---|---|---|
| 100 | HDC MBUS4 M AWG18 | 2565920000 |
| 100 | HDC MBUS4 M AWG22-20 | 2565900000 |
| 100 | HDC MBUS4 M AWG26-24 | 2565880000 |

**Female**

| Type | Order No. |
|---|---|
| HDC MBUS4 F AWG18 | 2565930000 |
| HDC MBUS4 F AWG22-20 | 2565910000 |
| HDC MBUS4 F AWG26-24 | 2565890000 |



# RockStar® ModuPlug Field attachable data connector

## Cat. 6, X-Type

## Technical data

| Contact inserts | |
|---|---|
| Number of poles | 8 |
| Rated current | 0.5 A |
| Rated voltage | 50 V |
| Category | Cat. 6A |
| Pollution severity | 2 |
| Transmission rate | 10 Gbps |
| Insulation strength | ≥ 100 MΩ |
| Coding | X |
| Limit temperature | -40 °C ... 90 °C |
| Plugging cycles | 100 |

**Note**

| Deployment | Type | Qty. | Order No. |
|---|---|---|---|
| Pin | HDC MBUS8 X6A MC | 2 | **2427900000** |
| Female | HDC MBUS8 X6A FC | 2 | **2427910000** |

**Note**

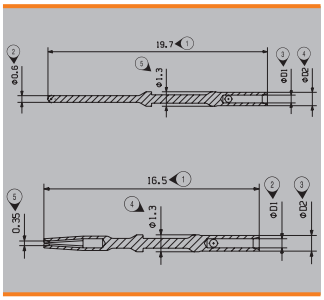
## Accessories

**Crimping contact**

Surface finish gold

**Male** / **Female**

| Qty. | Type | Order No. | Type | Order No. |
|---|---|---|---|---|
| 100 | HDC MBUS8 M AWG20 | **2565980000** | HDC MBUS8 F AWG20 | **2565990000** |
| 100 | HDC MBUS8 M AWG22 | **2565960000** | HDC MBUS8 F AWG22 | **2565970000** |
| 100 | HDC MBUS8 M AWG26-24 | **2565940000** | HDC MBUS8 F AWG26-24 | **2565950000** |

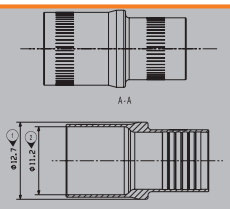


## Accessories

### Shielding sleeve

| Outer cable diameter | Type | Order No. |
|---|---|---|
| 3...5 mm | HDC MBUS CFS 5.0 | 2566080000 |
| 5...7 mm | HDC MBUS CFS 7.0 | 2566070000 |
| 6.8...7.3 mm | HDC MBUS CF 7.3 | 2566060000 |
| 7.4...7.9 mm | HDC MBUS CF 7.9 | 2566050000 |
| 8...8.5 mm | HDC MBUS CF 8.5 | 2566040000 |
| 8.6...9.1 mm | HDC MBUS CF 9.1 | 2566030000 |
| 9.2...9.7 mm | HDC MBUS CF 9.7 | 2566020000 |
| 9.8...10.3 mm | HDC MBUS CF 10.3 | 2566010000 |
| 10.4...11 mm | HDC MBUS CF 11.0 | 2566000000 |

**Note**




## Accessories

### Tools

### Pressing tool

| Product type | Type | Order No. |
|---|---|---|
| Pressing tool | HDC MBUS CT A 9.2-10.3 | 2592690000 |
| Pressing tool | HDC MBUS CT B 8.0-9.1 | 2592710000 |
| Pressing tool | HDC MBUS CT C 6.8-7.9 | 2592730000 |
| Crimping tool for contacts | HDC MBUS CT X/D 0.6/1.0 | 2592650000 |
| Crimping tool insert | HDC MBUS CI A 9.2-10.3 | 2592700000 |
| Crimping tool insert | HDC MBUS CI B 8.0-9.1 | 2592720000 |
| Crimping tool insert | HDC MBUS CI C 6.8-7.9 | 2592740000 |
| Locator for crimping tool | HDC MBUS CL X/D 0.6/1.0 | 2592680000 |

**Note**

# RockStar® ModuPlug data inserts

## Cat. 5e Industrial cable

### Technical data

| | |
|---|---|
| Number of poles | 4 |
| Transmission rate | 100 MBit/s |
| Category | Cat. 5e |
| Coding | D |
| Rated current | 4 A |
| Rated voltage | 250 V |
| Pollution severity | 2 |
| Insulation strength | ≥ $10^8$ Ω |
| Limit temperature | -30 °C ... 90 °C |
| Plugging cycles | ≥ 100 |
| Contact surface | Au (Gold) |
| **Note** | Round plug-in connector in accordance with IEC 61076-2-101 |

### Female / Female

| Module side version | Cable length | Opposite side version | Type | Order No. |
|---|---|---|---|---|
| Female | 0.5 m | Female | HDC XX5E01 FFSXXXX-0050 | **2652760050** |
| Female | 1 m | Female | HDC XX5E01 FFSXXXX-0100 | **2652760100** |
| Female | 1.5 m | Female | HDC XX5E01 FFSXXXX-0150 | **2652760150** |
| Female | 3 m | Female | HDC XX5E01 FFSXXXX-0300 | **2652760300** |
| Female | 5 m | Female | HDC XX5E01 FFSXXXX-0500 | **2652760500** |
| **Note** | Other versions and cable lenghts on request | | | |

### Female / Female M12

| Module side version | Cable length | Opposite side version | Type | Order No. |
|---|---|---|---|---|
| Female | 0.5 m | Female, M12D | HDC XX5E01 FFSM12D-0050 | **2503540050** |
| Female | 1 m | Female, M12D | HDC XX5E01 FFSM12D-0100 | **2503540100** |
| Female | 1.5 m | Female, M12D | HDC XX5E01 FFSM12D-0150 | **2503540150** |
| Female | 3 m | Female, M12D | HDC XX5E01 FFSM12D-0300 | **2503540300** |
| Female | 5 m | Female, M12D | HDC XX5E01 FFSM12D-0500 | **2503540500** |
| **Note** | Other versions and cable lenghts on request | | | |

### Female / Male M12

| Module side version | Cable length | Opposite side version | Type | Order No. |
|---|---|---|---|---|
| Female | 0.5 m | Male, straight, M12D | HDC XX5E01 FMSM12D-0050 | **2451120050** |
| Female | 1 m | Male, straight, M12D | HDC XX5E01 FMSM12D-0100 | **2451120100** |
| Female | 1.5 m | Male, straight, M12D | HDC XX5E01 FMSM12D-0150 | **2451120150** |
| Female | 3 m | Male, straight, M12D | HDC XX5E01 FMSM12D-0300 | **2451120300** |
| Female | 5 m | Male, straight, M12D | HDC XX5E01 FMSM12D-0500 | **2451120500** |
| **Note** | Other versions and cable lenghts on request | | | |

### Female / Male RJ45

| Module side version | Cable length | Opposite side version | Type | Order No. |
|---|---|---|---|---|
| Female | 0.5 m | Male, straight, RJ45 | HDC XX5E01 FMSRJ45-0050 | **2451080050** |
| Female | 1 m | Male, straight, RJ45 | HDC XX5E01 FMSRJ45-0100 | **2451080100** |
| Female | 1.5 m | Male, straight, RJ45 | HDC XX5E01 FMSRJ45-0150 | **2451080150** |
| Female | 3 m | Male, straight, RJ45 | HDC XX5E01 FMSRJ45-0300 | **2451080300** |
| Female | 5 m | Male, straight, RJ45 | HDC XX5E01 FMSRJ45-0500 | **2451080500** |
| **Note** | Other versions and cable lenghts on request | | | |

## Female / open end

| Module side version | Cable length | Opposite side version | Type | Order No. |
|---|---|---|---|---|
| Female | 0.5 m | open | HDC XX5E01 FOXXXXX-0050 | **2003920050** |
| Female | 1 m | open | HDC XX5E01 FOXXXXX-0100 | **2003920100** |
| Female | 1.5 m | open | HDC XX5E01 FOXXXXX-0150 | **2003920150** |
| Female | 3 m | open | HDC XX5E01 FOXXXXX-0300 | **2003920300** |
| Female | 5 m | open | HDC XX5E01 FOXXXXX-0500 | **2003920500** |
| **Note** | Other versions and cable lenghts on request | | | |

## Male / Female

| Module side version | Cable length | Opposite side version | Type | Order No. |
|---|---|---|---|---|
| Male | 0.5 m | Female, straight | HDC XX5E01 MFSXXXX-0050 | **2453550050** |
| Male | 1 m | Female, straight | HDC XX5E01 MFSXXXX-0100 | **2453550100** |
| Male | 1.5 m | Female, straight | HDC XX5E01 MFSXXXX-0150 | **2453550150** |
| Male | 3 m | Female, straight | HDC XX5E01 MFSXXXX-0300 | **2453550300** |
| Male | 5 m | Female, straight | HDC XX5E01 MFSXXXX-0500 | **2453550500** |
| **Note** | Other versions and cable lenghts on request | | | |

## Male / Female M12

| Module side version | Cable length | Opposite side version | Type | Order No. |
|---|---|---|---|---|
| Male | 0.5 m | Female, straight, M12D | HDC XX5E01 MFSM12D-0050 | **2450450050** |
| Male | 1 m | Female, straight, M12D | HDC XX5E01 MFSM12D-0100 | **2450450100** |
| Male | 1.5 m | Female, straight, M12D | HDC XX5E01 MFSM12D-0150 | **2450450150** |
| Male | 3 m | Female, straight, M12D | HDC XX5E01 MFSM12D-0300 | **2450450300** |
| Male | 5 m | Female, straight, M12D | HDC XX5E01 MFSM12D-0500 | **2450450500** |
| **Note** | Other versions and cable lenghts on request | | | |

## Male / Male M12

| Module side version | Cable length | Opposite side version | Type | Order No. |
|---|---|---|---|---|
| Male | 0.5 m | Male, straight, M12D | HDC XX5E01 MMSM12D-0050 | **2451110050** |
| Male | 1 m | Male, straight, M12D | HDC XX5E01 MMSM12D-0100 | **2451110100** |
| Male | 1.5 m | Male, straight, M12D | HDC XX5E01 MMSM12D-0150 | **2451110150** |
| Male | 3 m | Male, straight, M12D | HDC XX5E01 MMSM12D-0300 | **2451110300** |
| Male | 5 m | Male, straight, M12D | HDC XX5E01 MMSM12D-0500 | **2451110500** |
| **Note** | Other versions and cable lenghts on request | | | |

## Male / Male RJ45

| Module side version | Cable length | Opposite side version | Type | Order No. |
|---|---|---|---|---|
| Male | 0.5 m | Male, straight, RJ45 | HDC XX5E01 MMSRJ45-0050 | **2450490050** |
| Male | 1 m | Male, straight, RJ45 | HDC XX5E01 MMSRJ45-0100 | **2450490100** |
| Male | 1.5 m | Male, straight, RJ45 | HDC XX5E01 MMSRJ45-0150 | **2450490150** |
| Male | 3 m | Male, straight, RJ45 | HDC XX5E01 MMSRJ45-0300 | **2450490300** |
| Male | 5 m | Male, straight, RJ45 | HDC XX5E01 MMSRJ45-0500 | **2450490500** |
| **Note** | Other versions and cable lenghts on request | | | |

## Male / open end

| Module side version | Cable length | Opposite side version | Type | Order No. |
|---|---|---|---|---|
| Male | 0.5 m | open | HDC XX5E01 MOXXXXX-0050 | **2003890050** |
| Male | 1 m | open | HDC XX5E01 MOXXXXX-0100 | **2003890100** |
| Male | 1.5 m | open | HDC XX5E01 MOXXXXX-0150 | **2003890150** |
| Male | 3 m | open | HDC XX5E01 MOXXXXX-0300 | **2003890300** |
| Male | 5 m | open | HDC XX5E01 MOXXXXX-0500 | **2003890500** |
| **Note** | Other versions and cable lenghts on request | | | |

# RockStar® ModuPlug data inserts

## Cat. 5e railway cable

### Technical data

| | |
|---|---|
| Number of poles | 4 |
| Transmission rate | 100 MBit/s |
| Category | Cat. 5e |
| Coding | D |
| Rated current | 4 A |
| Rated voltage | 250 V |
| Pollution severity | 2 |
| Insulation strength | ≥ $10^8$ Ω |
| Limit temperature | -40 °C ... 90 °C |
| Plugging cycles | ≤ 100 |
| Contact surface | Au (Gold) |
| **Note** | Round plug-in connector in accordance with IEC 61076-2-101 |

### Female / Female M12

| Module side version | Cable length | Opposite side version | Type | Order No. |
|---|---|---|---|---|
| Female | 0.5 m | Female, straight, M12D | HDC XX5E02 FFSM12D-0050 | **2503810050** |
| Female | 1 m | Female, straight, M12D | HDC XX5E02 FFSM12D-0100 | **2503810100** |
| Female | 1.5 m | Female, straight, M12D | HDC XX5E02 FFSM12D-0150 | **2503810150** |
| Female | 3 m | Female, straight, M12D | HDC XX5E02 FFSM12D-0300 | **2503810300** |
| Female | 5 m | Female, straight, M12D | HDC XX5E02 FFSM12D-0500 | **2503810500** |
| **Note** | Other versions and cable lenghts on request | | | |

### Female / Male M12

| Module side version | Cable length | Opposite side version | Type | Order No. |
|---|---|---|---|---|
| Female | 0.5 m | Male, straight, M12D | HDC XX5E02 FMSM12D-0050 | **2503760050** |
| Female | 1 m | Male, straight, M12D | HDC XX5E02 FMSM12D-0100 | **2503760100** |
| Female | 1.5 m | Male, straight, M12D | HDC XX5E02 FMSM12D-0150 | **2503760150** |
| Female | 3 m | Male, straight, M12D | HDC XX5E02 FMSM12D-0300 | **2503760300** |
| Female | 5 m | Male, straight, M12D | HDC XX5E02 FMSM12D-0500 | **2503760500** |
| **Note** | Other versions and cable lenghts on request | | | |

### Female / Male RJ45

| Module side version | Cable length | Opposite side version | Type | Order No. |
|---|---|---|---|---|
| Female | 0.5 m | Male, straight, RJ45 | HDC XX5E02 FMSRJ45-0050 | **2503720050** |
| Female | 1 m | Male, straight, RJ45 | HDC XX5E02 FMSRJ45-0100 | **2503720100** |
| Female | 1.5 m | Male, straight, RJ45 | HDC XX5E02 FMSRJ45-0150 | **2503720150** |
| Female | 3 m | Male, straight, RJ45 | HDC XX5E02 FMSRJ45-0300 | **2503720300** |
| Female | 5 m | Male, straight, RJ45 | HDC XX5E02 FMSRJ45-0500 | **2503720500** |
| **Note** | Other versions and cable lenghts on request | | | |

### Female / open end

| Module side version | Cable length | Opposite side version | Type | Order No. |
|---|---|---|---|---|
| Female | 0.5 m | open | HDC XX5E02 FOXXXXX-0050 | **2003930050** |
| Female | 1 m | open | HDC XX5E02 FOXXXXX-0100 | **2003930100** |
| Female | 1.5 m | open | HDC XX5E02 FOXXXXX-0150 | **2003930150** |
| Female | 3 m | open | HDC XX5E02 FOXXXXX-0300 | **2003930300** |
| Female | 5 m | open | HDC XX5E02 FOXXXXX-0500 | **2003930500** |
| **Note** | Other versions and cable lenghts on request | | | |

## Male / Female

| Module side version | Cable length | Opposite side version | Type | Order No. |
|---|---|---|---|---|
| Male | 0.5 m | Female, straight | HDC XX5E02 MFSXXXX-0050 | **2503790050** |
| Male | 1 m | Female, straight | HDC XX5E02 MFSXXXX-0100 | **2503790100** |
| Male | 1.5 m | Female, straight | HDC XX5E02 MFSXXXX-0150 | **2503790150** |
| Male | 3 m | Female, straight | HDC XX5E02 MFSXXXX-0300 | **2503790300** |
| Male | 5 m | Female, straight | HDC XX5E02 MFSXXXX-0500 | **2503790500** |
| **Note** | Other versions and cable lenghts on request | | | |

## Male / Female M12

| Module side version | Cable length | Opposite side version | Type | Order No. |
|---|---|---|---|---|
| Male | 0.5 m | Female, straight, M12D | HDC XX5E02 MFSM12D-0050 | **2503700050** |
| Male | 1 m | Female, straight, M12D | HDC XX5E02 MFSM12D-0100 | **2503700100** |
| Male | 1.5 m | Female, straight, M12D | HDC XX5E02 MFSM12D-0150 | **2503700150** |
| Male | 3 m | Female, straight, M12D | HDC XX5E02 MFSM12D-0300 | **2503700300** |
| Male | 5 m | Female, straight, M12D | HDC XX5E02 MFSM12D-0500 | **2503700500** |
| **Note** | Other versions and cable lenghts on request | | | |

## Male / Male

| Module side version | Cable length | Opposite side version | Type | Order No. |
|---|---|---|---|---|
| Male | 0.5 m | Male, straight | HDC XX5E02 MMSXXXX-0050 | **2659960050** |
| Male | 1 m | Male, straight | HDC XX5E02 MMSXXXX-0100 | **2659960100** |
| Male | 1.5 m | Male, straight | HDC XX5E02 MMSXXXX-0150 | **2659960150** |
| Male | 3 m | Male, straight | HDC XX5E02 MMSXXXX-0300 | **2659960300** |
| Male | 5 m | Male, straight | HDC XX5E02 MMSXXXX-0500 | **2659960500** |
| **Note** | Other versions and cable lenghts on request | | | |

## Male / Male M12

| Module side version | Cable length | Opposite side version | Type | Order No. |
|---|---|---|---|---|
| Male | 0.5 m | Male, straight, M12D | HDC XX5E02 MMSM12D-0050 | **2503750050** |
| Male | 1 m | Male, straight, M12D | HDC XX5E02 MMSM12D-0100 | **2503750100** |
| Male | 1.5 m | Male, straight, M12D | HDC XX5E02 MMSM12D-0150 | **2503750150** |
| Male | 3 m | Male, straight, M12D | HDC XX5E02 MMSM12D-0300 | **2503750300** |
| Male | 5 m | Male, straight, M12D | HDC XX5E02 MMSM12D-0500 | **2503750500** |
| **Note** | Other versions and cable lenghts on request | | | |

## Male / Male RJ45

| Module side version | Cable length | Opposite side version | Type | Order No. |
|---|---|---|---|---|
| Male | 0.5 m | Male, straight, RJ45 | HDC XX5E02 MMSRJ45-0050 | **2503710050** |
| Male | 1 m | Male, straight, RJ45 | HDC XX5E02 MMSRJ45-0100 | **2503710100** |
| Male | 15 m | Male, straight, RJ45 | HDC XX5E02 MMSRJ45-0150 | **2503710150** |
| Male | 3 m | Male, straight, RJ45 | HDC XX5E02 MMSRJ45-0300 | **2503710300** |
| Male | 5 m | Male, straight, RJ45 | HDC XX5E02 MMSRJ45-0500 | **2503710500** |
| **Note** | Other versions and cable lenghts on request | | | |

## Male / open end

| Module side version | Cable length | Opposite side version | Type | Order No. |
|---|---|---|---|---|
| Male | 0.5 m | open | HDC XX5E02 M0XXXXX-0050 | **2003900050** |
| Male | 1 m | open | HDC XX5E02 M0XXXXX-0100 | **2003900100** |
| Male | 1.5 m | open | HDC XX5E02 M0XXXXX-0150 | **2003900150** |
| Male | 3 m | open | HDC XX5E02 M0XXXXX-0300 | **2003900300** |
| Male | 5 m | open | HDC XX5E02 M0XXXXX-0500 | **2003900500** |
| **Note** | Other versions and cable lenghts on request | | | |

# RockStar® ModuPlug data inserts

## Cat. $6_A$ Industrial cable

### Technical data

| | |
|---|---|
| Number of poles | 8 |
| Transmission rate | 10 Gbps |
| Category | Cat. 6A |
| Coding | X |
| Rated current | 0.5 A |
| Rated voltage | 50 V |
| Pollution severity | 2 |
| Insulation strength | ≥ $10^8$ Ω |
| Limit temperature | -30 °C ... 90 °C |
| Plugging cycles | ≥ 100 |
| Contact surface | Au (Gold) |
| **Note** | Round plug-in connector in accordance with IEC 61076-2-101 |

### Female / Female

| Module side version | Cable length | Opposite side version | Type | Order No. |
|---|---|---|---|---|
| Female | 0.5 m | Female, straight | HDC XX6A02 FFSXXXX-0050 | **2634700050** |
| Female | 1 m | Female, straight | HDC XX6A02 FFSXXXX-0100 | **2634700100** |
| Female | 1.5 m | Female, straight | HDC XX6A02 FFSXXXX-0150 | **2634700150** |
| Female | 3 m | Female, straight | HDC XX6A02 FFSXXXX-0300 | **2634700300** |
| Female | 5 m | Female, straight | HDC XX6A02 FFSXXXX-0500 | **2634700500** |
| **Note** | Other versions and cable lenghts on request | | | |

### Female / Female M12

| Module side version | Cable length | Opposite side version | Type | Order No. |
|---|---|---|---|---|
| Female | 0.5 m | Female, straight, M12X | HDC XX6A02 FFSM12X-0050 | **2503820050** |
| Female | 1 m | Female, straight, M12X | HDC XX6A02 FFSM12X-0100 | **2503820100** |
| Female | 1.5 m | Female, straight, M12X | HDC XX6A02 FFSM12X-0150 | **2503820150** |
| Female | 3 m | Female, straight, M12X | HDC XX6A02 FFSM12X-0300 | **2503820300** |
| Female | 5 m | Female, straight, M12X | HDC XX6A02 FFSM12X-0500 | **2503820500** |
| **Note** | Other versions and cable lenghts on request | | | |

### Female / Male M12

| Module side version | Cable length | Opposite side version | Type | Order No. |
|---|---|---|---|---|
| Female | 0.5 m | Male, straight, M12X | HDC XX6A02 FMSM12X-0050 | **2503780050** |
| Female | 1 m | Male, straight, M12X | HDC XX6A02 FMSM12X-0100 | **2503780100** |
| Female | 1.5 m | Male, straight, M12X | HDC XX6A02 FMSM12X-0150 | **2503780150** |
| Female | 3 m | Male, straight, M12X | HDC XX6A02 FMSM12X-0300 | **2503780300** |
| Female | 5 m | Male, straight, M12X | HDC XX6A02 FMSM12X-0500 | **2503780500** |
| **Note** | Other versions and cable lenghts on request | | | |

### Female / Male RJ45

| Module side version | Cable length | Opposite side version | Type | Order No. |
|---|---|---|---|---|
| Female | 0.5 m | Male, straight, RJ45 | HDC XX6A02 FMSRJ45-0050 | **2503740050** |
| Female | 1 m | Male, straight, RJ45 | HDC XX6A02 FMSRJ45-0100 | **2503740100** |
| Female | 1.5 m | Male, straight, RJ45 | HDC XX6A02 FMSRJ45-0150 | **2503740150** |
| Female | 3 m | Male, straight, RJ45 | HDC XX6A02 FMSRJ45-0300 | **2503740300** |
| Female | 5 m | Male, straight, RJ45 | HDC XX6A02 FMSRJ45-0500 | **2503740500** |
| **Note** | Other versions and cable lenghts on request | | | |

## Female / open end

| Module side version | Cable length | Opposite side version | Type | Order No. |
|---|---|---|---|---|
| Female | 0.5 m | open | HDC XX6A02 FOXXXXX-0050 | **2003860050** |
| Female | 1 m | open | HDC XX6A02 FOXXXXX-0100 | **2003860100** |
| Female | 1.5 m | open | HDC XX6A02 FOXXXXX-0150 | **2003860150** |
| Female | 3 m | open | HDC XX6A02 FOXXXXX-0300 | **2003860300** |
| Female | 5 m | open | HDC XX6A02 FOXXXXX-0500 | **2003860500** |
| **Note** | Other versions and cable lenghts on request | | | |

## Male / Female

| Module side version | Cable length | Opposite side version | Type | Order No. |
|---|---|---|---|---|
| Male | 0.5 m | Female, straight | HDC XX6A02 MFSXXXX-0050 | **2503800050** |
| Male | 1 m | Female, straight | HDC XX6A02 MFSXXXX-0100 | **2503800100** |
| Male | 1.5 m | Female, straight | HDC XX6A02 MFSXXXX-0150 | **2503800150** |
| Male | 3 m | Female, straight | HDC XX6A02 MFSXXXX-0300 | **2503800300** |
| Male | 5 m | Female, straight | HDC XX6A02 MFSXXXX-0500 | **2503800500** |
| **Note** | Other versions and cable lenghts on request | | | |

## Male / Female M12

| Module side version | Cable length | Opposite side version | Type | Order No. |
|---|---|---|---|---|
| Male | 0.5 m | Female, straight, M12X | HDC XX6A02 MFSM12X-0050 | **2503690050** |
| Male | 1 m | Female, straight, M12X | HDC XX6A02 MFSM12X-0100 | **2503690100** |
| Male | 1.5 m | Female, straight, M12X | HDC XX6A02 MFSM12X-0150 | **2503690150** |
| Male | 3 m | Female, straight, M12X | HDC XX6A02 MFSM12X-0300 | **2503690300** |
| Male | 5 m | Female, straight, M12X | HDC XX6A02 MFSM12X-0500 | **2503690500** |
| **Note** | Other versions and cable lenghts on request | | | |

## Male / Male M12

| Module side version | Cable length | Opposite side version | Type | Order No. |
|---|---|---|---|---|
| Male | 0.5 m | Male, straight, M12X | HDC XX6A02 MMSM12X-0050 | **2503770050** |
| Male | 1 m | Male, straight, M12X | HDC XX6A02 MMSM12X-0100 | **2503770100** |
| Male | 1.5 m | Male, straight, M12X | HDC XX6A02 MMSM12X-0150 | **2503770150** |
| Male | 3 m | Male, straight, M12X | HDC XX6A02 MMSM12X-0300 | **2503770300** |
| Male | 5 m | Male, straight, M12X | HDC XX6A02 MMSM12X-0500 | **2503770500** |
| **Note** | Other versions and cable lenghts on request | | | |

## Male / Male RJ45

| Module side version | Cable length | Opposite side version | Type | Order No. |
|---|---|---|---|---|
| Male | 0.5 m | Male, straight, RJ45 | HDC XX6A02 MMSRJ45-0050 | **2503730050** |
| Male | 1 m | Male, straight, RJ45 | HDC XX6A02 MMSRJ45-0100 | **2503730100** |
| Male | 1.5 m | Male, straight, RJ45 | HDC XX6A02 MMSRJ45-0150 | **2503730150** |
| Male | 3 m | Male, straight, RJ45 | HDC XX6A02 MMSRJ45-0300 | **2503730300** |
| Male | 5 m | Male, straight, RJ45 | HDC XX6A02 MMSRJ45-0500 | **2503730500** |
| **Note** | Other versions and cable lenghts on request | | | |

## Male / open end

| Module side version | Cable length | Opposite side version | Type | Order No. |
|---|---|---|---|---|
| Male | 0.5 m | open | HDC XX6A02 MOXXXXX-0050 | **2003830050** |
| Male | 1 m | open | HDC XX6A02 MOXXXXX-0100 | **2003830100** |
| Male | 1.5 m | open | HDC XX6A02 MOXXXXX-0150 | **2003830150** |
| Male | 3 m | open | HDC XX6A02 MOXXXXX-0300 | **2003830300** |
| Male | 5 m | open | HDC XX6A02 MOXXXXX-0500 | **2003830500** |
| **Note** | Other versions and cable lenghts on request | | | |

# RockStar® ModuPlug data inserts

## Cat. $6_A$ railway cable

### Technical data

| | |
|---|---|
| Number of poles | 8 |
| Transmission rate | 10 Gbps |
| Category | Cat. 6A |
| Coding | X |
| Rated current | 0.5 A |
| Rated voltage | 50 V |
| Pollution severity | 2 |
| Insulation strength | ≥ $10^8$ Ω |
| Limit temperature | -40 °C ... 90 °C |
| Plugging cycles | 100 |
| Contact surface | Au (Gold) |
| **Note** | Round plug-in connector in accordance with IEC 61076-2-109 |

### Female / Female M12

| Module side version | Cable length | Opposite side version | Type | Order No. |
|---|---|---|---|---|
| Female | 0.5 m | Female, straight, M12X | HDC XX6A01 FFSM12X-0050 | **2503550050** |
| Female | 1 m | Female, straight, M12X | HDC XX6A01 FFSM12X-0100 | **2503550100** |
| Female | 1.5 m | Female, straight, M12X | HDC XX6A01 FFSM12X-0150 | **2503550150** |
| Female | 3 m | Female, straight, M12X | HDC XX6A01 FFSM12X-0300 | **2503550300** |
| Female | 5 m | Female, straight, M12X | HDC XX6A01 FFSM12X-0500 | **2503550500** |
| **Note** | Other versions and cable lenghts on request | | | |

### Female / Male M12

| Module side version | Cable length | Opposite side version | Type | Order No. |
|---|---|---|---|---|
| Female | 0.5 m | Male, straight, M12X | HDC XX6A01 FMSM12X-0050 | **2451140050** |
| Female | 1 m | Male, straight, M12X | HDC XX6A01 FMSM12X-0100 | **2451140100** |
| Female | 1.5 m | Male, straight, M12X | HDC XX6A01 FMSM12X-0150 | **2451140150** |
| Female | 3 m | Male, straight, M12X | HDC XX6A01 FMSM12X-0300 | **2451140300** |
| Female | 5 m | Male, straight, M12X | HDC XX6A01 FMSM12X-0500 | **2451140500** |
| **Note** | Other versions and cable lenghts on request | | | |

### Female / Male RJ45

| Module side version | Cable length | Opposite side version | Type | Order No. |
|---|---|---|---|---|
| Female | 0.5 m | Male, straight, RJ45 | HDC XX6A01 FMSRJ45-0050 | **2451100050** |
| Female | 1 m | Male, straight, RJ45 | HDC XX6A01 FMSRJ45-0100 | **2451100100** |
| Female | 1.5 m | Male, straight, RJ45 | HDC XX6A01 FMSRJ45-0150 | **2451100150** |
| Female | 3 m | Male, straight, RJ45 | HDC XX6A01 FMSRJ45-0300 | **2451100300** |
| Female | 5 m | Male, straight, RJ45 | HDC XX6A01 FMSRJ45-0500 | **2451100500** |
| **Note** | Other versions and cable lenghts on request | | | |

### Female / open end

| Module side version | Cable length | Opposite side version | Type | Order No. |
|---|---|---|---|---|
| Female | 0.5 m | open | HDC XX6A01 FOXXXXX-0050 | **2003850050** |
| Female | 1 m | open | HDC XX6A01 FOXXXXX-0100 | **2003850100** |
| Female | 1.5 m | open | HDC XX6A01 FOXXXXX-0150 | **2003850150** |
| Female | 3 m | open | HDC XX6A01 FOXXXXX-0300 | **2003850300** |
| Female | 5 m | open | HDC XX6A01 FOXXXXX-0500 | **2003850500** |
| **Note** | Other versions and cable lenghts on request | | | |

## Male / Female

| Module side version | Cable length | Opposite side version | Type | Order No. |
|---|---|---|---|---|
| Male | 0.5 m | Female, straight | HDC XX6A01 MFSXXXX-0050 | **2453540050** |
| Male | 1 m | Female, straight | HDC XX6A01 MFSXXXX-0100 | **2453540100** |
| Male | 1.5 m | Female, straight | HDC XX6A01 MFSXXXX-0150 | **2453540150** |
| Male | 3 m | Female, straight | HDC XX6A01 MFSXXXX-0300 | **2453540300** |
| Male | 5 m | Female, straight | HDC XX6A01 MFSXXXX-0500 | **2453540500** |
| **Note** | Other versions and cable lenghts on request | | | |

## Male / Female M12

| Module side version | Cable length | Opposite side version | Type | Order No. |
|---|---|---|---|---|
| Male | 0.5 m | Female, straight, M12X | HDC XX6A01 MFSM12X-0050 | **2450440050** |
| Male | 1 m | Female, straight, M12X | HDC XX6A01 MFSM12X-0100 | **2450440100** |
| Male | 1.5 m | Female, straight, M12X | HDC XX6A01 MFSM12X-0150 | **2450440150** |
| Male | 3 m | Female, straight, M12X | HDC XX6A01 MFSM12X-0300 | **2450440300** |
| Male | 5 m | Female, straight, M12X | HDC XX6A01 MFSM12X-0500 | **2450440500** |
| **Note** | Other versions and cable lenghts on request | | | |

## Male / Male M12

| Module side version | Cable length | Opposite side version | Type | Order No. |
|---|---|---|---|---|
| Male | 0.5 m | Male, straight, M12X | HDC XX6A01 MMSM12X-0050 | **2451130050** |
| Male | 1 m | Male, straight, M12X | HDC XX6A01 MMSM12X-0100 | **2451130100** |
| Male | 1.5 m | Male, straight, M12X | HDC XX6A01 MMSM12X-0150 | **2451130150** |
| Male | 3 m | Male, straight, M12X | HDC XX6A01 MMSM12X-0300 | **2451130300** |
| Male | 5 m | Male, straight, M12X | HDC XX6A01 MMSM12X-0500 | **2451130500** |
| **Note** | Other versions and cable lenghts on request | | | |

## Male / Male RJ45

| Module side version | Cable length | Opposite side version | Type | Order No. |
|---|---|---|---|---|
| Male | 0.5 m | Male, straight, RJ45 | HDC XX6A01 MMSRJ45-0050 | **2451090050** |
| Male | 1 m | Male, straight, RJ45 | HDC XX6A01 MMSRJ45-0100 | **2451090100** |
| Male | 1.5 m | Male, straight, RJ45 | HDC XX6A01 MMSRJ45-0150 | **2451090150** |
| Male | 3 m | Male, straight, RJ45 | HDC XX6A01 MMSRJ45-0300 | **2451090300** |
| Male | 5 m | Male, straight, RJ45 | HDC XX6A01 MMSRJ45-0500 | **2451090500** |
| **Note** | Other versions and cable lenghts on request | | | |

## Male / open end

| Module side version | Cable length | Opposite side version | Type | Order No. |
|---|---|---|---|---|
| Male | 0.5 m | open | HDC XX6A01 MOXXXXX-0050 | **2003820050** |
| Male | 1 m | open | HDC XX6A01 MOXXXXX-0100 | **2003820100** |
| Male | 1.5 m | open | HDC XX6A01 MOXXXXX-0150 | **2003820150** |
| Male | 3 m | open | HDC XX6A01 MOXXXXX-0300 | **2003820300** |
| Male | 5 m | open | HDC XX6A01 MOXXXXX-0500 | **2003820500** |
| **Note** | Other versions and cable lenghts on request | | | |

## Male / Male

| Module side version | Cable length | Opposite side version | Type | Order No. |
|---|---|---|---|---|
| Male | 0.5 m | Male | HDC XX6A01 MMSXXXX-0050 | **2659970050** |
| Male | 1 m | Male | HDC XX6A01 MMSXXXX-0100 | **2659970100** |
| Male | 1.5 m | Male | HDC XX6A01 MMSXXXX-0150 | **2659970150** |
| Male | 3 m | Male | HDC XX6A01 MMSXXXX-0300 | **2659970300** |
| Male | 5 m | Male | HDC XX6A01 MMSXXXX-0500 | **2659970500** |
| **Note** | Other versions and cable lenghts on request | | | |

# RockStar® ModuPlug RJ45 modules

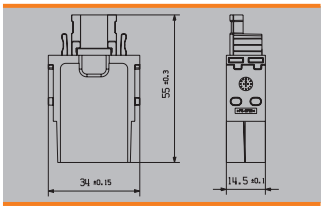
## MRJ45 modules

### Technical data

| | |
|---|---|
| Number of poles | 8 |
| Category | |
| Rated current (DIN EN 61984) | 1 A |
| Rated voltage (DIN EN 61984) | 50 V |
| Pollution severity | 3 |
| Insulation strength | $10^{12}$ Ω |
| Limit temperature | -40 °C ... 70 °C |
| Plugging cycles | 750 (RJ45) |
| Surge voltage category | III |
| **Note** | |

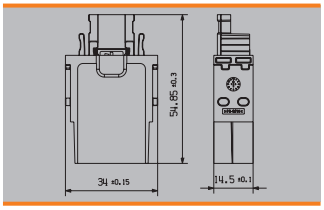
| Version | Type | Order No. |
|---|---|---|
| Plug insert, RJ45 crimp | HDC MRJ45 8PLUG MC | **2592250000** |

**Note**



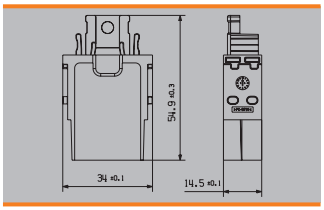
| Version | Type | Order No. |
|---|---|---|
| Plug insert, RJ45 tool-free, TIA-568A | HDC MRJ45 A MI | **2592220000** |
| Plug insert, RJ45 tool-free, TIA-568A, EIA/TIA T568 B, PROFINET | HDC MRJ45 ABP MI | **2592210000** |
| Plug insert, RJ45 tool-free, EIA/TIA T568 B | HDC MRJ45 B MI | **2592230000** |
| Plug insert, RJ45 tool-free, PROFINET | HDC MRJ45 P MI | **2592240000** |

**Note**



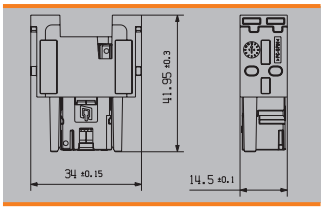
| Version | Type | Order No. |
|---|---|---|
| Adapter module, RJ45 for patch cable | HDC MRJ45 PCADP MC | **2592260000** |

**Note**



| Version | Type | Order No. |
|---|---|---|
| RJ45 Gender Changer | HDC MRJ45 GC F | **2592030000** |

**Note**



## MRJ45 patch cable

### Technical data

| | |
|---|---|
| Number of wires | 8 |
| Speed | 10 GBit/s |
| Category | Cat. 6A |
| Operating voltage | 48 V AC / DC |
| Sheath diameter, max. | 5.9 mm |
| Cross-section [Text] | 4*2*AWG 27/7 - 4*2*0.1 mm² |
| Shielding | S/FTP |
| Material sheath | LSZH |
| Operating temperature [ZGT] | -20...60 °C |
| Contact surface | Au ≥ 0.8 µm |
| **Note** | |

| Cable length | Type | Order No. |
|---|---|---|
| 0.2 m | HDC RJ4501 MMSCAT6-0020 | **2661950020** |
| 0.3 m | HDC RJ4501 MMSCAT6-0030 | **2661950030** |
| 0.4 m | HDC RJ4501 MMSCAT6-0040 | **2661950040** |
| 0.5 m | HDC RJ4501 MMSCAT6-0050 | **2661950050** |
| 0.6 m | HDC RJ4501 MMSCAT6-0060 | **2661950060** |
| 0.7 m | HDC RJ4501 MMSCAT6-0070 | **2661950070** |
| 0.8 m | HDC RJ4501 MMSCAT6-0080 | **2661950080** |
| 0.9 m | HDC RJ4501 MMSCAT6-0090 | **2661950090** |
| 1 m | HDC RJ4501 MMSCAT6-0100 | **2661950100** |
| 1.5 m | HDC RJ4501 MMSCAT6-0150 | **2661950150** |
| 2 m | HDC RJ4501 MMSCAT6-0200 | **2661950200** |
| 2.5 m | HDC RJ4501 MMSCAT6-0250 | **2661950250** |
| 3 m | HDC RJ4501 MMSCAT6-0300 | **2661950300** |
| 4 m | HDC RJ4501 MMSCAT6-0400 | **2661950400** |
| 5 m | HDC RJ4501 MMSCAT6-0500 | **2661950500** |
| 6 m | HDC RJ4501 MMSCAT6-0600 | **2661950600** |
| 7 m | HDC RJ4501 MMSCAT6-0700 | **2661950700** |
| 7.5 m | HDC RJ4501 MMSCAT6-0750 | **2661950750** |
| 8 m | HDC RJ4501 MMSCAT6-0800 | **2661950800** |
| 9 m | HDC RJ4501 MMSCAT6-0900 | **2661950900** |
| 10 m | HDC RJ4501 MMSCAT6-1000 | **2661951000** |
| 15 m | HDC RJ4501 MMSCAT6-1500 | **2661951500** |
| 20 m | HDC RJ4501 MMSCAT6-2000 | **2661952000** |
| **Note** | | |

| Adapter module | |
|---|---|
| HDC MRJ45 PCADP MC | **2592260000** |
| **Note** | |

## ModuPlug®
## Pneumatic Modules

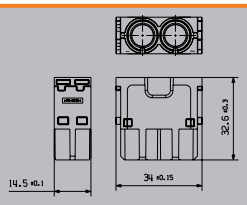
### Technical data

| Contact inserts | |
|---|---|
| Number of poles | 2 |
| Type of connection | Hose connection (pneumatic) |
| Module operating pressure | 8 bar |
| Inner hose diameter, min. | 6 mm |
| Inner hose diameter, max. | 6 mm |
| Limit temperature | -40 °C ... 80 °C |
| UL 94 flammability rating | V-0 |
| Plugging cycles | ≥ 500 |
| Material | Polycarbonate, glass fibre reinforced |
| Required plug-in slots | 1 |

**Note**

**Hose connection (pneumatic)**

| Deployment | Type | Order No. |
|---|---|---|
| Male, Female | HDC MPN 2 | 2637320000 |

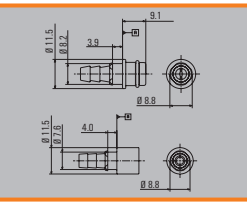



**Note**

**Pneumatic contacts**

| Female | |
|---|---|
| HDC MPN 6.0 F | 2637390000 |
| **Male** | |
| HDC MPN 6.0 M | 2637350000 |
| **Female with shut-off valve** | |
| HDC MPN 6.0 SOF | 2637400000 |

**Note**



## ModuPlug®
## Pneumatic contacts

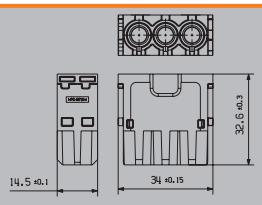
### Technical data

| Contact inserts | |
|---|---|
| Number of poles | 3 |
| Type of connection | Hose connection (pneumatic) |
| Module operating pressure | 8 bar |
| Inner hose diameter, min. | 1.6 mm |
| Inner hose diameter, max. | 4 mm |
| Limit temperature | -40 °C ... 80 °C |
| UL 94 flammability rating | V-0 |
| Plugging cycles | ≥ 500 |
| Material | Polycarbonate, glass fibre reinforced |
| Required plug-in slots | 1 |

**Note**

**Hose connection (pneumatic)**

| Deployment | Type | Order No. |
|---|---|---|
| Male, Female | HDC MPN 3 | 2637340000 |

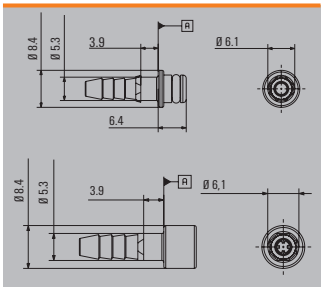



**Note**

**Pneumatic contacts**

| Female | |
|---|---|
| HDC MPN 4.0 F | 2637420000 |
| HDC MPN 3.0 F | 2637450000 |
| HDC MPN 1.6 F | 2637480000 |
| **Male** | |
| HDC MPN 4.0 M | 2637410000 |
| HDC MPN 3.0 M | 2637440000 |
| HDC MPN 1.6 M | 2637470000 |
| **Female with shut-off valve** | |
| HDC MPN 4.0 SOF | 2637430000 |
| HDC MPN 3.0 SOF | 2637460000 |
| HDC MPN 1.6 SOF | 2637490000 |

**Note**



# RockStar® Housings IP65 / NEMA Type 12, 4X


**RockStar® Housings IP65 / NEMA Type 12, 4X**

**Introduction** D.2

**RockStar® Housings IP65 / NEMA Type 12, 4X** D.4

Size 1 - 12

# RockStar® Housings IP65 / NEMA Type 12, 4X

Where something extra comes as standard. The high quality workmanship of RockStar® IP65 housings begins with the material from which all interlock mechanisms are made: stainless steel. It guarantees a long lifespan with high resistance to corrosion and impact. For the die-cast aluminium variants, a high-quality, multi-stage surface sealing provides years of safety and reliability – even under the most extreme conditions. With just one housing series, Weidmüller delivers the proper protective solution for your heavy-duty connector – so your choice is simple.

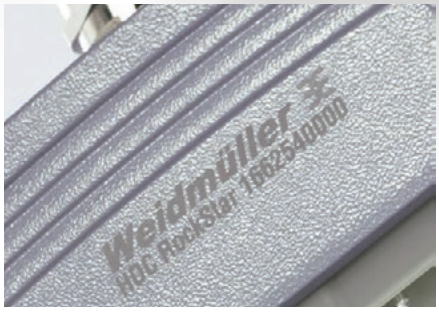
Other standard extras:
- A patented spring system provides a secure interlock and easier handling.
- Integrated threads: your choice of cable glands
- Integrated insulation strips: for worry-free transmission of higher voltages

RockStar® IP65 housings are available in twelve sizes and can be combined with all fixed-pole and modular inserts.

**Sturdy**
Stainless steel interlock systems and multi-stage surface sealing results in high durability

**Reliable**
Guaranteed protection against jets of water, corrosion, ice and rain, according to IEC 60529 and UL.

**Practical**
Laser labelling for permanent identification and faster allocation



# RockStar® IP65 Housings / NEMA Type 12, 4X

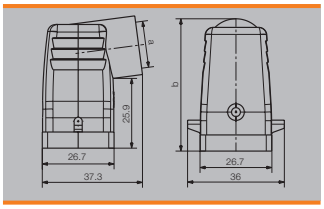
## Plastic housing

## Size 1

### Hood

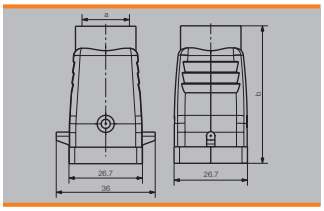
**Plug housing, cable entry sideways**

| Colour | Version | b (mm) | Type | Order No. |
|---|---|---|---|---|
| beige | w. threading | 49.2 | HDC 07A TWLU 1M20G | **1788510000** |
| beige | w. threading | 49.2 | HDC 07A TWLU 1PG11G | **1652400000** |




**Plug housing, cable entry at top**

| Colour | Version | b (mm) | Type | Order No. |
|---|---|---|---|---|
| beige | w. threading | 50 | HDC 07A TOLU 1M20G | **1788520000** |
| beige | w. threading | 50 | HDC 07A TOLU 1PG11G | **1652380000** |
| black | w. threading | 50 | HDC 07A TOLU 1M20G BLK | **2089000000** |



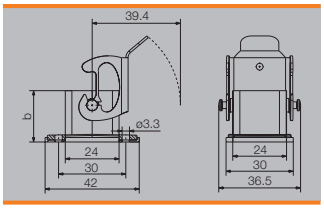
## Plastic housing

### Size 1

### Base

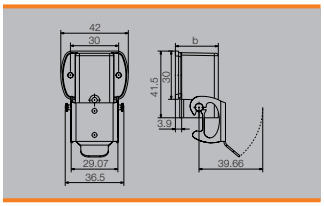
#### Bulkhead housing

| Colour | Version | b (mm) | Type | Order No. |
|---|---|---|---|---|
| beige | | 23 | HDC 07A ALU | 1652410000 |
| black | | 23 | HDC 07A ALU BLK | 2088980000 |



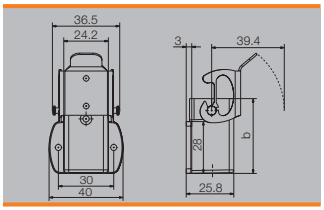

#### Bulkhead housing, angled

| Colour | Version | b (mm) | Type | Order No. |
|---|---|---|---|---|
| beige | angled | 26.7 | HDC 07A AWLU | 1652420000 |



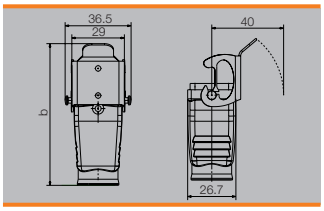

#### Base housing

| | Version | b (mm) | Type | Order No. |
|---|---|---|---|---|
| | w. threading | 41.5 | HDC 07A SLU 1M20G | 1788530000 |
| | w. Supports | 41.5 | HDC 07A SLU 1PG11S | 1652440000 |



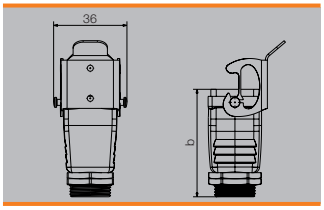

#### Coupling housing

| | Version | b (mm) | Type | Order No. |
|---|---|---|---|---|
| | w. threading | 53.5 | HDC 07A KOLU 1M20G | 1788540000 |
| | w. threading | 53.5 | HDC 07A KOLU 1PG11G | 1652460000 |



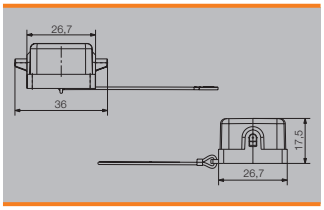

#### Screw mounting housing

| | Version | b (mm) | Type | Order No. |
|---|---|---|---|---|
| | w. threading | 54 | HDC 07A ELU 1PG13G | 1900990000 |




#### Cover

| Version | Type | Order No. |
|---|---|---|
| with female | HDC 07A DMDL 2BO | 1665770000 |
| with male | HDC 07A DODL 2BO | 1665760000 |



# RockStar® IP65 Housings / NEMA Type 12, 4X

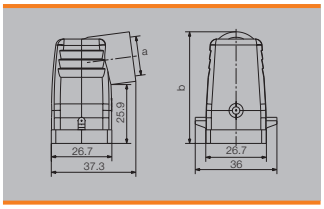
## Metal housing

## Size 1

## Hood

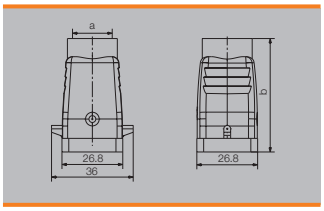
### Plug housing, cable entry sideways

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 49.2 | HDC 04A TWLU 1M20G | **1788810000** |
| w. threading | 49.2 | HDC 04A TWLU 1PG11G | **1652480000** |



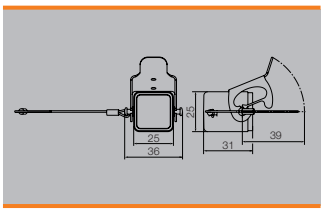

### Plug housing, cable entry at top

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 50 | HDC 04A TOLU 1M16G | **1206090000** |
| w. threading | 50 | HDC 04A TOLU 1M20G | **1788820000** |
| w. threading | 50 | HDC 04A TOLU 1PG11G | **1652470000** |




### Cover

| Version | Type | Order No. |
|---|---|---|
| with male | HDC 04A DODL 1LB | **1963690000** |



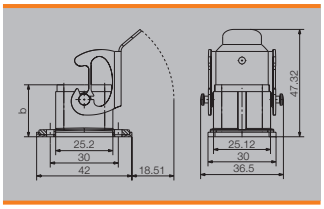
## Metal housing

### Size 1

### Base

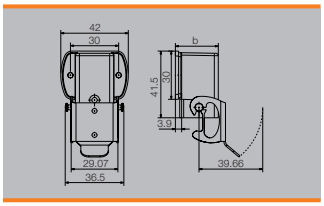
#### Bulkhead housing

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



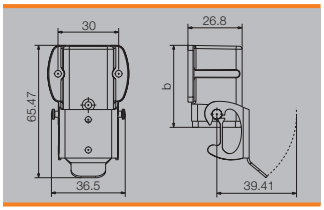

#### Bulkhead housing, angled

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| angled | 26.7 | HDC 04A AWLU | 1497700000 |



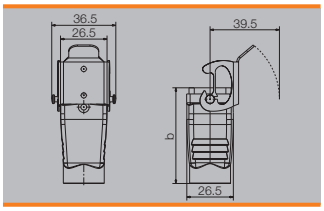

#### Base housing

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 41.5 | HDC 04A SLU 1M20G | 1788830000 |
| w. threading | 41.5 | HDC 04A SLU 1PG11G | 1652490000 |



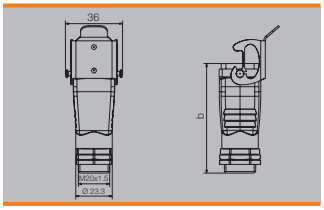

#### Coupling housing

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 53.5 | HDC 04A KOLU 1M20G | 1788840000 |
| w. threading | 53.5 | HDC 04A KOLU 1PG11G | 1652500000 |



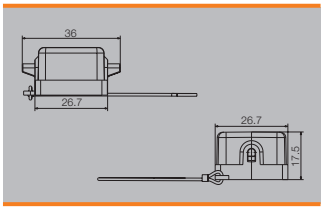

#### Screw mounting housing

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 54 | HDC 04A ELU 1M20G | 1900320000 |
| w. threading | 54 | HDC 04A ELU 1PG13S | 1900330000 |




#### Cover

| Version | Type | Order No. |
|---|---|---|
| with female | HDC 04A DMDL 2BO | 1665750000 |
| with male | HDC 04A DODL 2BO | 1665740000 |



# RockStar® IP65 Housings / NEMA Type 12, 4X

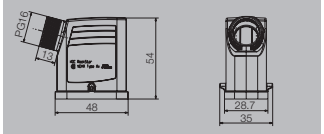
## Plastic housing

## Size HQ

### Hood

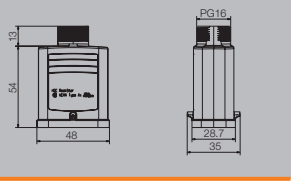
#### Plug housing, cable entry sideways

| | Version | b (mm) | Type | Order No. |
|---|---|---|---|---|
| | w. threading | 54 | HDC HQP TSLU 1PG16 | 1003090000 |




#### Plug housing, cable entry at top

| | Version | b (mm) | Type | Order No. |
|---|---|---|---|---|
| | w. threading | 67 | HDC HQP TOLU 1PG16 | 1003070000 |




### Base

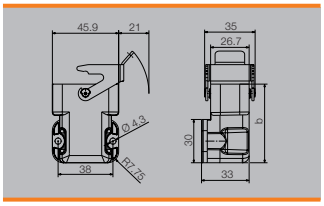
#### Bulkhead housing

| | Version | b (mm) | Type | Order No. |
|---|---|---|---|---|
| | | 19.5 | HDC HQP ALU | 1003040000 |
| | | 19.5 | HDC HQP ALU CS | 1354950000 |

**Note** CS: with locking bow

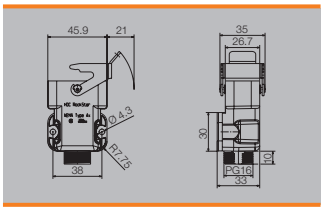
#### Bulkhead housing, angled

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



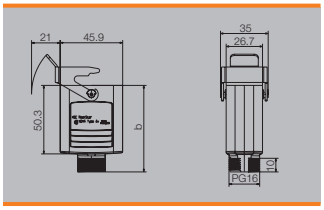

#### Base housing

| | Version | b (mm) | Type | Order No. |
|---|---|---|---|---|
| | w. threading | 54.5 | HDC HQP SLU 1PG16 | 1003110000 |




#### Coupling housing

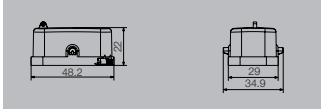
| | Version | b (mm) | Type | Order No. |
|---|---|---|---|---|
| | w. threading | 63.5 | HDC HQP KOLU 1PG16 | 1003120000 |




#### Cover

| Version | Type | Order No. |
|---|---|---|
| with female | HDC HQP DMD 2BO | 1003130000 |
| with male | HDC HQP DOD 2BO | 1003140000 |
| with female | HDC HQP DMD 2BO CS | 1251660000 |
| with male | HDC HQP DOD 2BO CS | 1251670000 |

**Note** for plastic and metal housings, for locking bow



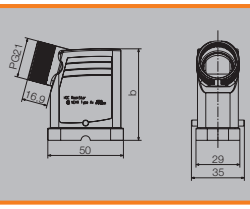
## Die cast zinc housing (EMC)

## Size HQ

### Hood

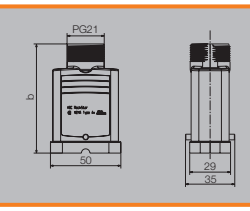
**Plug housing, cable entry sideways**

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 60.5 | HDC HQM TSLU 1PG21 | 1003100000 |




**Plug housing, cable entry at top**

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 77.5 | HDC HQM TOLU 1PG21 | 1003080000 |

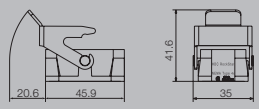



### Base

**Bulkhead housing**

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| | 20.5 | HDC HQM ALU | 1003050000 |
| | 20.5 | HDC HQM ALU CS | 1251680000 |

**Note** CS: with locking bow

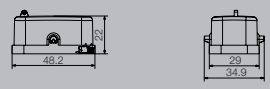



**Cover**

**Material:** Plastic

| Version | Type | Order No. |
|---|---|---|
| with female | HDC HQP DMD 2BO | 1003130000 |
| with male | HDC HQP DOD 2BO | 1003140000 |
| with female | HDC HQP DMD 2BO CS | 1251660000 |
| with male | HDC HQP DOD 2BO CS | 1251670000 |

**Note** for plastic and metal housings, for locking bow



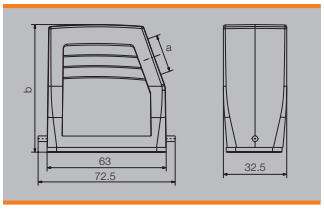
## End locking, lower side

## Size 2

## Hood

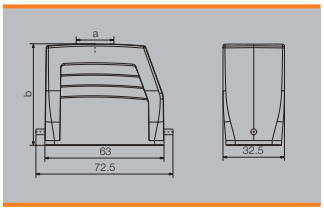
### Plug housing, cable entry sideways

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 54 | HDC 10A TSLU 1M20G | **1967660000** |
| w. threading | 68 | HDC 15A TSLU 1M20G | **1788860000** |
| w. threading | 68 | HDC 15A TSLU 1M25G | **1788850000** |
| w. threading | 54 | HDC 10A TSLU 1PG16G | **1663810000** |
| w. threading | 68 | HDC 15A TSLU 1PG16G | **1663850000** |
| w. threading | 68 | HDC 15A TSLU 1PG21G | **1663870000** |



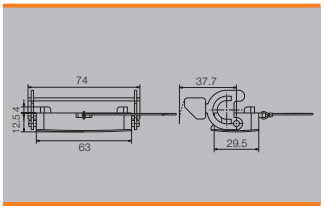

### Plug housing, cable entry at top

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 54 | HDC 10A TOLU 1M20G | **1788620000** |
| w. threading | 54 | HDC 10A TOLU 1M25G | **1788610000** |
| w. threading | 54 | HDC 10A TOLU 2PG11G | **1746170000** |
| w. threading | 54 | HDC 10A TOLU 1PG16G | **1663930000** |
| w. threading | 68 | HDC 15A TOLU 1PG21G | **1663990000** |




### Cover

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



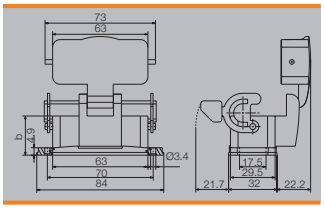
## End locking, lower side

## Size 2

### Base

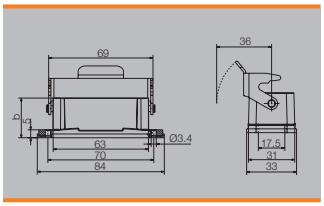
#### Bulkhead housing

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| | 25 | HDC 10A ALU | 1664040000 |
| | 37.5 | HDC 10A ADLU | 1664060000 |



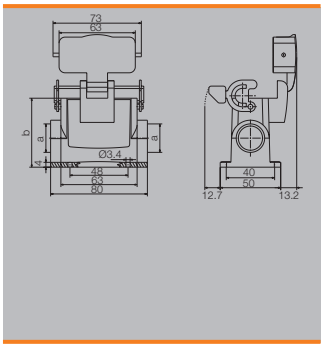

#### Bulkhead housing

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| | 26 | HDC 10A ALU SL | 1021450000 |



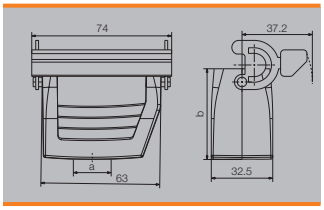

#### Base housing

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 57 | HDC 10A SLU 1M20G | 1901100000 |
| w. threading | 69.5 | HDC 10A SDLU 1M20G | 1901010000 |
| w. threading | 57 | HDC 10A SLU 2M20G | 1788640000 |
| w. threading | 69.5 | HDC 10A SDLU 2M20G | 1788660000 |
| w. threading | 57 | HDC 10A SLU 1M25G | 1901160000 |
| w. threading | 69.5 | HDC 10A SDLU 1M25G | 1901040000 |
| w. threading | 57 | HDC 10A SLU 2M25G | 1788630000 |
| w. threading | 69.5 | HDC 10A SDLU 2M25G | 1788650000 |
| w. threading | 57 | HDC 10A SLU 1PG16G | 1664170000 |
| w. threading | 69.5 | HDC 10A SDLU 1PG16G | 1664410000 |
| w. threading | 57 | HDC 10A SLU 2PG16G | 1664190000 |
| w. threading | 69.5 | HDC 10A SDLU 2PG16G | 1664420000 |
| w. threading | 57 | HDC 10A SLU 1PG21G | 1664210000 |



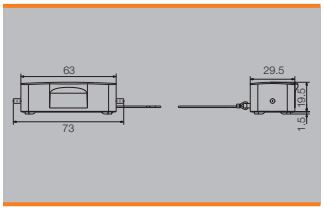

#### Coupling housing

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 48 | HDC 10A KLU 1M25G | 1788670000 |
| w. threading | 48 | HDC 10A KLU 2PG09G | 1783250000 |
| w. threading | 48 | HDC 10A KLU 1PG16G | 1664560000 |




#### Cover

| Version | Type | Order No. |
|---|---|---|
| For bases | HDC 10A DMDL 2BO | 1665880000 |



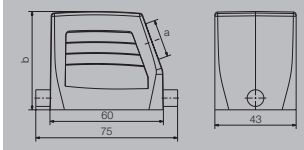
## End locking, lower side

## Size 3

### Hood

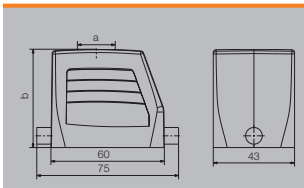
**Plug housing, cable entry sideways**

| | Version | b (mm) | Type | Order No. |
|---|---|---|---|---|
| | w. threading | 52 | HDC 06B TSLU 1M20G | **1788100000** |
| | w. threading | 52 | HDC 06B TSLU 1M25G | **1788090000** |
| | w. threading | 72 | HDC 16D TSLU 1M25G | **1787480000** |
| | w. threading | 72 | HDC 16D TSLU 1M32G | **1787470000** |
| | w. threading | 52 | HDC 06B TSLU 1PG13G | **1670530000** |
| | w. threading | 52 | HDC 06B TSLU 1PG16G | **1652520000** |
| | w. threading | 72 | HDC 16D TSLU 1PG21G | **1652560000** |
| | w. threading | 72 | HDC 16D TSLU 1PG29G | **1652580000** |




**Plug housing, cable entry at top**

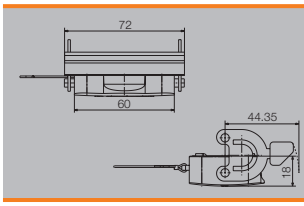
| | Version | b (mm) | Type | Order No. |
|---|---|---|---|---|
| | w. threading | 52 | HDC 06B TOLU 1M20G | **1788120000** |
| | w. threading | 52 | HDC 06B TOLU 1M25G | **1788110000** |
| | w. threading | 72 | HDC 16D TOLU 1M25G | **1787500000** |
| | w. threading | 72 | HDC 16D TOLU 1M32G | **1787490000** |
| | w. threading | 52 | HDC 06B TOLU 1PG13G | **1670500000** |
| | w. threading | 52 | HDC 06B TOLU 1PG16G | **1652640000** |
| | w. threading | 72 | HDC 16D TOLU 1PG21G | **1652680000** |
| | w. threading | 72 | HDC 16D TOLU 1PG29G | **1652700000** |




**Cover**

| Version | Type | Order No. |
|---|---|---|
| For hoods | HDC 06B DMDL 1LB | **1665210000** |
| For hoods | HDC 06B DMDL 1LB N | **2559730000** |

**Note** Note: N = Plastic locking lever with stainless steel inlay



## End locking, lower side

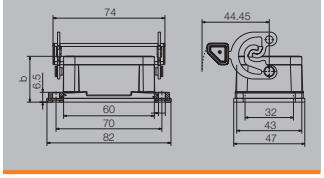
## Size 3

## Base

### Bulkhead housing

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| | 29.3 | HDC 06B ALU | 1202100000 |
| | 29.3 | HDC 06B ALU N | 2488560000 |
| | 27.8 | HDC 06B ALU O-RING | 1019870000 |
| | 29.3 | HDC 06B ADLU | 1202500000 |
| | 29.3 | HDC 06B ADLU N | 2559320000 |

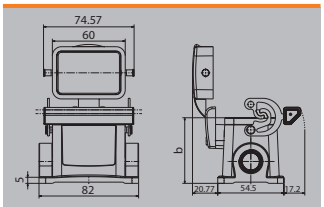
**Note** Note: N = Plastic locking lever with stainless steel inlay




### Base housing

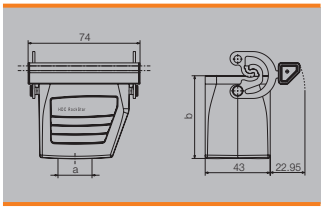
| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 54 | HDC 06B SLU 1M20G | 1900460000 |
| w. threading | | HDC 06B SLU 1M20G N | 2637080000 |
| w. threading | 54 | HDC 06B SDLU 1M20G N | 2560720000 |
| w. threading | 54 | HDC 06B SLU 2M20G | 1788140000 |
| w. threading | 54 | HDC 06B SDLU 1M20G | 1900360000 |
| w. threading | 54 | HDC 06B SDLU 2M20G | 1788170000 |
| w. threading | 54 | HDC 06B SLU 2M25G | 1788130000 |
| w. threading | 54 | HDC 06B SLU 2M20G N | 2560850000 |
| w. threading | 54 | HDC 06B SLU 2M25G N | 2560860000 |
| w. threading | 54 | HDC 06B SDLU 2M25G | 1788160000 |
| w. threading | 54 | HDC 06B SDLU 2M20G N | 2560820000 |
| w. threading | 54 | HDC 06B SDLU 2M25G N | 2560830000 |
| w. threading | 54 | HDC 06B SLU 1M25G | 1900480000 |
| w. threading | 54 | HDC 06B SLU 1M25G N | 2560710000 |
| w. threading | 54 | HDC 06B SDLU 1M25G | 1900380000 |
| w. threading | 74 | HDC 16D SLU 1M25G | 1900880000 |
| w. threading | 74 | HDC 16D SDLU 1M25G | 1900820000 |
| w. threading | 74 | HDC 16D SLU 2M25G | 1787520000 |
| w. threading | 74 | HDC 16D SDLU 2M25G | 1787540000 |
| w. threading | 74 | HDC 16D SLU 1M32G | 1900900000 |
| w. threading | 74 | HDC 16D SLU 2M32G | 1787510000 |
| w. threading | 54 | HDC 06B SLU 1PG16G | 1652750000 |
| w. threading | 54 | HDC 06B SLU 1PG16G N | 2560840000 |
| w. threading | 54 | HDC 06B SDLU 1PG16G | 1652980000 |
| w. threading | 54 | HDC 06B SDLU 1PG16G N | 2560810000 |
| w. threading | 54 | HDC 06B SLU 2PG16G | 1652760000 |
| w. threading | 74 | HDC 16D SLU 2PG21G | 1652840000 |
| w. threading | 54 | HDC 06B SDLU 2PG16G | 1652990000 |

**Note** Note: N = Plastic locking lever with stainless steel inlay



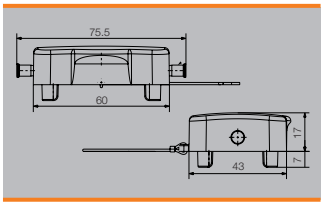

### Coupling housing

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 54.8 | HDC 06B KLU 1M25G | 1021330000 |
| w. threading | 74.6 | HDC 16D KLU 1PG21G | 1653230000 |
| w. threading | 54.8 | HDC 06B KLU 1PG16G | 1653200000 |



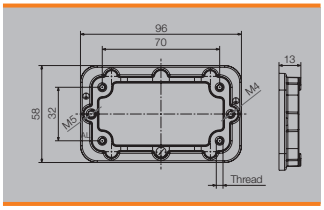

### Cover

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




### Counter-frame

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| | | HDC IP65 06B FRAME M4 | 1081550000 |



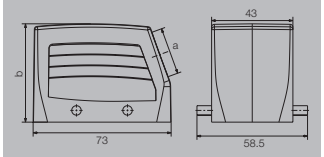
## Side locking, lower side

## Size 4

### Hood

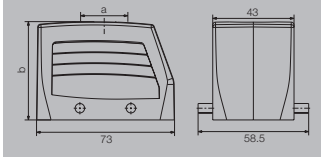
**Plug housing, cable entry sideways**

| | Version | b (mm) | Type | Order No. |
|---|---|---|---|---|
| | w. threading | 52 | HDC 10B TSBU 1M20G | **1787560000** |
| | w. threading | 52 | HDC 10B TSBU 1M25G | **1787550000** |
| | w. threading | 72 | HDC 24D TSBU 1M25G | **1787240000** |
| | w. threading | 72 | HDC 24D TSBU 1M32G | **1787230000** |
| | w. threading | 52 | HDC 10B TSBU 1PG16G | **1654070000** |
| | w. threading | 52 | HDC 10B TSBU 1PG21G | **1654090000** |
| | w. threading | 72 | HDC 24D TSBU 1PG21G | **1654150000** |
| | w. threading | 72 | HDC 24D TSBU 1PG29G | **1654170000** |




**Plug housing, cable entry at top**

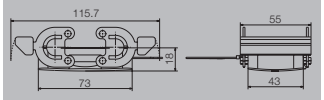
| | Version | b (mm) | Type | Order No. |
|---|---|---|---|---|
| | w. threading | 52 | HDC 10B TOBU 1M20G | **1787600000** |
| | w. threading | 52 | HDC 10B TOBU 1M25G | **1787590000** |
| | w. threading | 72 | HDC 24D TOBU 2M20G | **1336600000** |
| | w. threading | 72 | HDC 24D TOBU 1M25G | **1787300000** |
| | w. threading | 72 | HDC 24D TOBU 1M32G | **1787290000** |
| | w. threading | 52 | HDC 10B TOBU 1PG16G | **1654220000** |
| | w. threading | 52 | HDC 10B TOBU 1PG21G | **1654240000** |
| | w. threading | 72 | HDC 24D TOBU 1PG29G | **1654320000** |




**Cover**

| Version | Type | Order No. |
|---|---|---|
| For hoods | HDC 10B DMDQ 2QB | **1665240000** |
| For hoods | HDC 10B DMDQ 2QB N | **2559740000** |

| Note | Note: N = Plastic locking lever with stainless steel inlay |
|---|---|



## Side locking, lower side

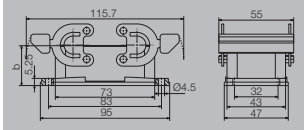
## Size 4

## Base

### Bulkhead housing

| | Version | b (mm) | Type | Order No. |
|---|---|---|---|---|
| | | 29.5 | HDC 10B ABU | 1205000000 |
| | | 29.5 | HDC 10B ABU N | 2488580000 |

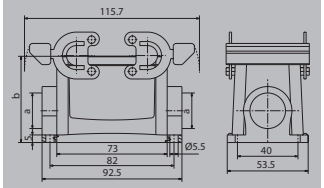
**Note** Note: N = Plastic locking lever with stainless steel inlay




### Base housing

| | Version | b (mm) | Type | Order No. |
|---|---|---|---|---|
| | w. threading | 57 | HDC 10B SBU 1M20G | 1901360000 |
| | w. threading | 57 | HDC 10B SBU 1M20G N | 2560880000 |
| | w. threading | 57 | HDC 10B SBU 2M20G | 1787640000 |
| | w. threading | 57 | HDC 10B SBU 2M20G N | 2560890000 |
| | w. threading | 57 | HDC 10B SBU 1M25G N | 2560900000 |
| | w. threading | 57 | HDC 10B SBU 2M25G | 1787630000 |
| | w. threading | 57 | HDC 10B SBU 1M25G | 1901370000 |
| | w. threading | 57 | HDC 10B SBU 2M25G N | 2560910000 |
| | w. threading | 74 | HDC 24D SBU 1M25G | 1903210000 |
| | w. threading | 74 | HDC 24D SBU 2M25G | 1787350000 |
| | w. threading | 74 | HDC 24D SBU 2M25G N | 2560760000 |
| | w. threading | 74 | HDC 24D SBU 1M32G | 1903220000 |
| | w. threading | 74 | HDC 24D SBU 1M32G N | 2560990000 |
| | w. threading | 74 | HDC 24D SBU 2M32G | 1787360000 |
| | w. threading | 74 | HDC 24D SBU 2M32G N | 2561000000 |
| | w. threading | 57 | HDC 10B SBU 1PG16G | 1654370000 |
| | w. threading | 57 | HDC 10B SBU 1PG16G N | 2560730000 |
| | w. threading | 57 | HDC 10B SBU 2PG16G | 1654380000 |
| | w. threading | 57 | HDC 10B SBU 2PG16G N | 2560870000 |
| | w. threading | 74 | HDC 24D SBU 2PG21G | 1654450000 |
| | w. threading | 74 | HDC 24D SBU 1PG29G | 1654470000 |

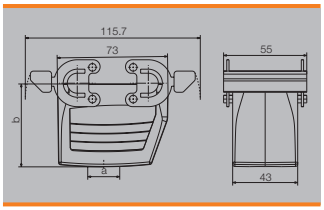
**Note** Note: N = Plastic locking lever with stainless steel inlay




### Coupling housing

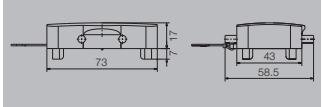
| | Version | b (mm) | Type | Order No. |
|---|---|---|---|---|
| | w. threading | 54.65 | HDC 10B KBU 1M20G | 1787720000 |
| | w. threading | 54.65 | HDC 10B KBU 1M20G N | 2559860000 |
| | w. threading | 54.65 | HDC 10B KBU 1M25G | 1021250000 |
| | w. threading | 54.65 | HDC 10B KBU 1PG16G | 1654580000 |

**Note** Note: N = Plastic locking lever with stainless steel inlay



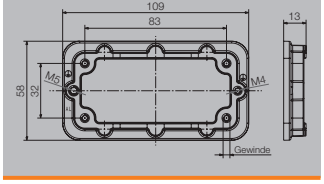

### Cover

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




### Counter-frame

| | Version | b (mm) | Type | Order No. |
|---|---|---|---|---|
| | | | HDC IP65 10B FRAME M4 | 1081560000 |



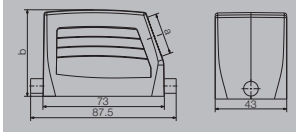
## End locking, lower side

## Size 4

### Hood

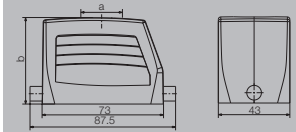
#### Plug housing, cable entry sideways

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 52 | HDC 10B TSLU 1M25G | **1787580000** |
| w. threading | 72 | HDC 24D TSLU 1M25G | **1787280000** |
| w. threading | 72 | HDC 24D TSLU 1M32G | **1787270000** |
| w. threading | 52 | HDC 10B TSLU 1PG16G | **1655210000** |
| w. threading | 72 | HDC 24D TSLU 1PG21G | **1655250000** |
| w. threading | 72 | HDC 24D TSLU 1PG29G | **1655270000** |




#### Plug housing, cable entry at top

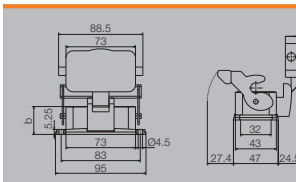
| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 52 | HDC 10B TOLU 1M25G | **1787620000** |
| w. threading | 72 | HDC 24D TOLU 1M25G | **1787340000** |
| w. threading | 72 | HDC 24D TOLU 1M32G | **1787330000** |
| w. threading | 52 | HDC 10B TOLU 1PG16G | **1655320000** |
| w. threading | 72 | HDC 24D TOLU 1PG21G | **1655360000** |
| w. threading | 72 | HDC 24D TOLU 1PG29G | **1655380000** |




### Base

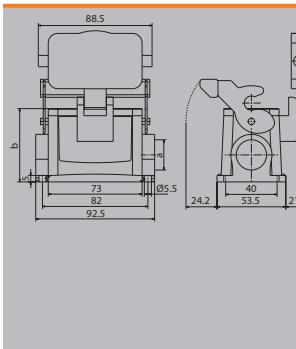
#### Bulkhead housing

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| | 29 | HDC 10B ALU | **1206100000** |
| | 29 | HDC 10B ADLU | **1206500000** |



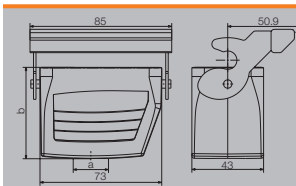

#### Base housing

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 57 | HDC 10B SLU 1M20G | **1901620000** |
| w. threading | 57 | HDC 10B SDLU 1M20G | **1901570000** |
| w. threading | 57 | HDC 10B SLU 2M20G | **1787660000** |
| w. threading | 57 | HDC 10B SDLU 2M20G | **1787700000** |
| w. threading | 57 | HDC 10B SLU 1M25G | **1901640000** |
| w. threading | 74 | HDC 24D SDLU 1M25G | **1903410000** |
| w. threading | 57 | HDC 10B SLU 2M25G | **1787650000** |
| w. threading | 74 | HDC 24D SDLU 2M25G | **1787420000** |
| w. threading | 74 | HDC 24D SLU 1M32G | **1903560000** |
| w. threading | 74 | HDC 24D SDLU 1M32G | **1903510000** |
| w. threading | 74 | HDC 24D SLU 2M32G | **1787370000** |
| w. threading | 74 | HDC 24D SDLU 2M32G | **1787410000** |
| w. threading | 57 | HDC 10B SLU 2PG16G | **1655470000** |
| w. threading | 57 | HDC 10B SDLU 2PG16G | **1655680000** |



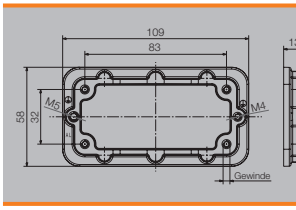

#### Coupling housing

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 55 | HDC 10B KLU 1M20G | **1787740000** |
| w. threading | 55 | HDC 10B KLU 1M25G | **1787730000** |
| w. threading | 75 | HDC 24D KLU 1M25G | **1787460000** |
| w. threading | 75 | HDC 24D KLU 1M32G | **1787450000** |
| w. threading | 55 | HDC 10B KLU 1PG16G | **1655890000** |




#### Counter-frame

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| | | HDC IP65 10B FRAME M4 | **1081560000** |



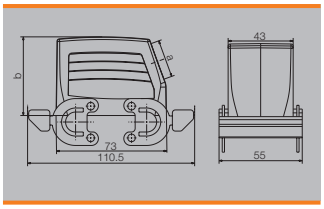
## Side locking, upper side

## Size 4

### Hood

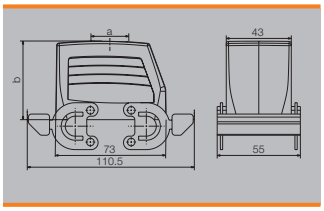
#### Plug housing, cable entry sideways

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 52 | HDC 10B TSBO 1M25G | 1787570000 |
| w. threading | 72 | HDC 24D TSBO 1M25G | 1787260000 |
| w. threading | 72 | HDC 24D TSBO 1M32G | 1787250000 |
| w. threading | 52 | HDC 10B TSBO 1PG16G | 1654750000 |
| w. threading | 72 | HDC 24D TSBO 1PG16G | 1654810000 |
| w. threading | 72 | HDC 24D TSBO 1PG21G | 1654790000 |



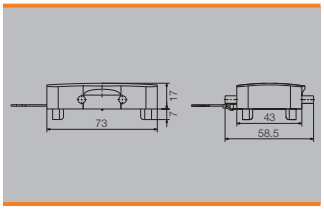

#### Plug housing, cable entry at top

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 52 | HDC 10B TOBO 1M25G | 1787610000 |
| w. threading | 52 | HDC 10B TOBO 1PG16G | 1654860000 |
| w. threading | 72 | HDC 24D TOBO 1PG29G | 1654920000 |




#### Cover

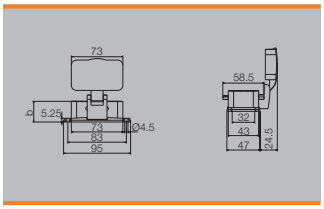
| Version | Type | Order No. |
|---|---|---|
| For hoods | HDC 10B DMDQ 4BO | 1665250000 |




### Base

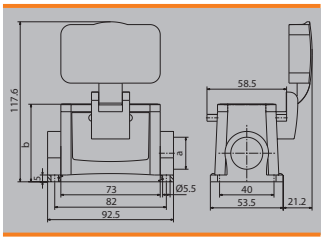
#### Bulkhead housing

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| | 29 | HDC 10B ABO | 1052430000 |
| | 51.6 | HDC 10B ADBO | 1205600000 |



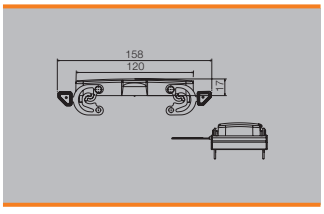

#### Base housing

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 57 | HDC 10B SDBO 1M20G | 1901490000 |
| w. threading | 57 | HDC 10B SDBO 2M20G | 1787680000 |
| w. threading | 57 | HDC 10B SDBO 1M25G | 1901510000 |
| w. threading | 74 | HDC 24D SDBO 1M25G | 1903370000 |
| w. threading | 57 | HDC 10B SDBO 2M25G | 1787670000 |
| w. threading | 74 | HDC 24D SDBO 2M25G | 1787400000 |
| w. threading | 57 | HDC 10B SDBO 2PG16G | 1655000000 |



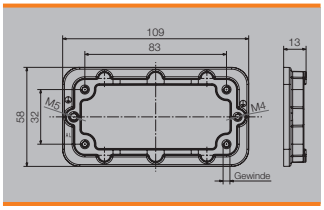

#### Cover

| Version | Type | Order No. |
|---|---|---|
| For bases | HDC 10B DODQ 2QB | 1009080000 |




#### Counter-frame

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| | | HDC IP65 10B FRAME M4 | 1081560000 |



# RockStar® IP65 Housings / NEMA Type 12, 4X

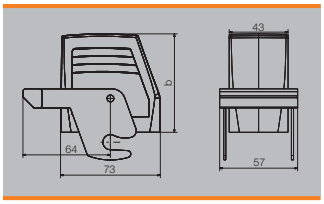
## Central-locking clamp

## Size 4

## Hood

### Plug housing, cable entry sideways

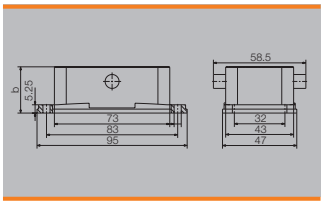
| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 72 | HDC 24D TSZO 1M25G | 1903610000 |
| w. threading | 72 | HDC 24D TSZO 1PG21G | 1968360000 |




## Base

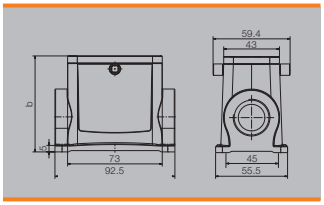
### Bulkhead housing

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| | 29.25 | HDC 10B AZO | 1901700000 |



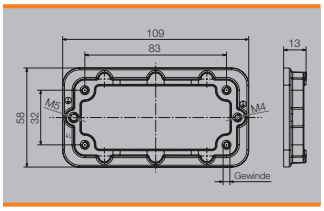

### Base housing

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 74 | HDC 24D SZO 2PG21G | 1968350000 |




### Counter-frame

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| | | HDC IP65 10B FRAME M4 | 1081560000 |



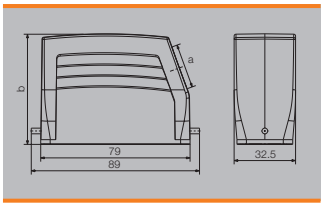
## End locking, lower side

## Size 5

### Hood

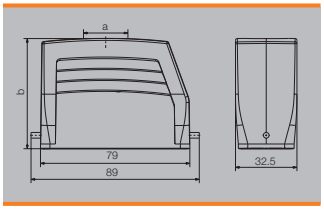
#### Plug housing, cable entry sideways

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 58 | HDC 16A TSLU 1M20G | 1041760000 |
| w. threading | 72 | HDC 25A TSLU 1M20G | 1788680000 |
| w. threading | 58 | HDC 16A TSLU 1M25G | 1788740000 |
| w. threading | 72 | HDC 25A TSLU 1M25G | 1788690000 |
| w. threading | 58 | HDC 16A TSLU 1PG16G | 1664690000 |
| w. threading | 72 | HDC 25A TSLU 1PG16G | 1664730000 |
| w. threading | 72 | HDC 25A TSLU 1PG21G | 1664750000 |



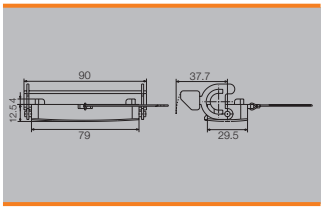

#### Plug housing, cable entry at top

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 72 | HDC 25A TOLU 1M20G | 1788710000 |
| w. threading | 58 | HDC 16A TOLU 1M25G | 1788750000 |
| w. threading | 72 | HDC 25A TOLU 1M25G | 1788700000 |
| w. threading | 58 | HDC 16A TOLU 1PG16G | 1664810000 |
| w. threading | 72 | HDC 25A TOLU 1PG21G | 1664870000 |




#### Cover

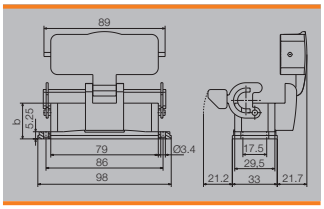
| Version | Type | Order No. |
|---|---|---|
| For hoods | HDC 16A DODL 1LB | 1665900000 |




### Base

#### Bulkhead housing

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| | 26.25 | HDC 16A ALU | 1664920000 |
| | 26.25 | HDC 16A ADLU | 1664940000 |

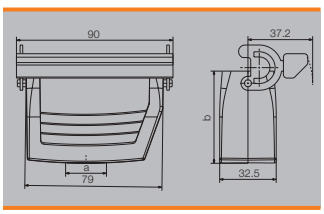



#### Base housing

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 57 | HDC 16A SLU 1M20G | 1934720000 |
| w. threading | 57 | HDC 16A SDLU 1M20G | 1934710000 |
| w. threading | 57 | HDC 16A SLU 2M20G | 1788770000 |
| w. threading | 57 | HDC 16A SDLU 2M20G | 1788790000 |
| w. threading | 57 | HDC 16A SLU 1M25G | 1902330000 |
| w. threading | 57 | HDC 16A SLU 2M25G | 1788760000 |
| w. threading | 57 | HDC 16A SDLU 2M25G | 1788780000 |
| w. threading | 57 | HDC 16A SLU 2PG16G | 1665070000 |
| w. threading | 57 | HDC 16A SDLU 2PG16G | 1665300000 |
| w. threading | 57 | HDC 16A SLU 1PG21G | 1665090000 |

#### Coupling housing

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 52.62 | HDC 16A KLU 1M25G | 1788800000 |
| w. threading | 52.62 | HDC 16A KLU 1PG16G | 1665450000 |



# RockStar® IP65 Housings / NEMA Type 12, 4X

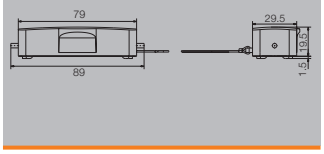
## End locking, lower side

## Size 5

### Base

**Cover**

| Version | Type | Order No. |
|---|---|---|
| For bases | HDC 16A DMDL 2BO | **1665910000** |



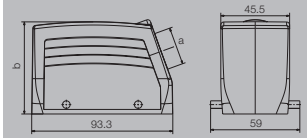
## Side locking, lower side

## Size 6

## Hood

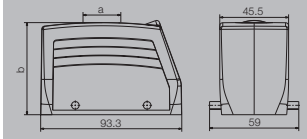
### Plug housing, cable entry sideways

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 61 | HDC 16B TSBU 1M25G | **1788180000** |
| w. threading | 76 | HDC 40D TSBU 1M25G | **1787010000** |
| w. threading | 76 | HDC 40D TSBU 1M32G | **1787000000** |
| w. threading | 61 | HDC 16B TSBU 1M40G | **1809620000** |
| w. threading | 76 | HDC 40D TSBU 1M40G | **1904800000** |
| w. threading | 61 | HDC 16B TSBU 1PG21G | **1656480000** |
| w. threading | 76 | HDC 40D TSBU 1PG21G | **1656520000** |
| w. threading | 76 | HDC 40D TSBU 1PG29G | **1656540000** |



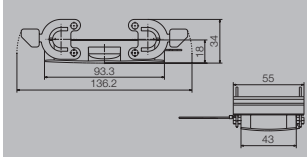

### Plug housing, cable entry at top

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 61 | HDC 16B TOBU 1M25G | **1788210000** |
| w. threading | 76 | HDC 40D TOBU 1M25G | **1787070000** |
| w. threading | 76 | HDC 40D TOBU 2M25 | **1208380000** |
| | | HDC 40D TOBU 1M32G1M20G | **1229120000** |
| w. threading | 76 | HDC 40D TOBU 1M32G | **1787060000** |
| w. threading | 61 | HDC 16B TOBU 1PG21G | **1656590000** |
| w. threading | 76 | HDC 40D TOBU 1PG21G | **1656630000** |
| w. threading | 76 | HDC 40D TOBU 1PG29G | **1656650000** |




### Cover

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



# RockStar® IP65 Housings / NEMA Type 12, 4X

## Side locking, lower side

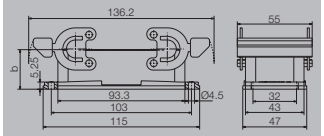
## Size 6

## Base

### Bulkhead housing

| | Version | b (mm) | Type | Order No. |
|---|---|---|---|---|
| | | 29 | HDC 16B ABU | 1208600000 |
| | | 29 | HDC 16B ABU N | 2488590000 |

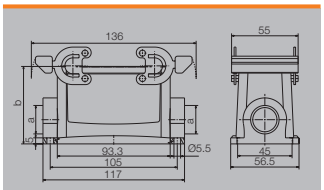
**Note** Note: N = Plastic locking lever with stainless steel inlay




### Base housing

| | Version | b (mm) | Type | Order No. |
|---|---|---|---|---|
| | w. threading | 64 | HDC 16B SBU 1M25G | 1899980000 |
| | w. threading | 64 | HDC 16B SBU 1M25G N | 2560740000 |
| | w. threading | 64 | HDC 16B SBU 2M25G | 1788240000 |
| | w. threading | 84 | HDC 40D SBU 1M25G | 1902970000 |
| | w. threading | 64 | HDC 16B SBU 2M25G N | 2560930000 |
| | w. threading | 84 | HDC 40D SBU 2M25G | 1787120000 |
| | w. threading | 84 | HDC 40D SBU 1M32G N | 2561030000 |
| | w. threading | 84 | HDC 40D SBU 2M32G | 1787110000 |
| | w. threading | 84 | HDC 40D SBU 1M32G | 1902990000 |
| | w. threading | 64 | HDC 16B SBU 1PG21G | 1656720000 |
| | w. threading | 64 | HDC 16B SBU 2PG21G | 1656730000 |
| | w. threading | 84 | HDC 40D SBU 2PG21G | 1656810000 |
| | w. threading | 84 | HDC 40D SBU 1PG29G | 1656830000 |
| | w. threading | 64 | HDC 16B SBU 1PG21G N | 2560940000 |
| | w. threading | 84 | HDC 40D SBU 2PG29G | 1656840000 |
| | w. threading | 64 | HDC 16B SBU 2PG21G N | 2560950000 |
| | w. threading | 84 | HDC 40D SBU 2M25G N | 2561020000 |
| | w. threading | 84 | HDC 40D SBU 2M32G N | 2561040000 |

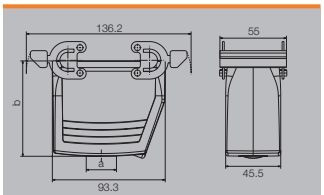
**Note** Note: N = Plastic locking lever with stainless steel inlay




### Coupling housing

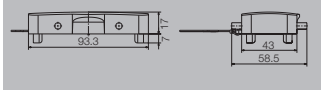
| | Version | b (mm) | Type | Order No. |
|---|---|---|---|---|
| | w. threading | 78.6 | HDC 40D KBU 1M25G | 1787200000 |
| | w. threading | 79 | HDC 40D KBU 1M25G N | 2559890000 |
| | w. threading | 78.6 | HDC 40D KBU 1M32G | 1787190000 |
| | w. threading | 79 | HDC 40D KBU 1M32G N | 2559900000 |
| | w. threading | 79 | HDC 40D KBU 2M32G N | 2545510000 |
| | w. threading | 64 | HDC 16B KBU 1PG21G | 1657270000 |
| | w. threading | 78.6 | HDC 40D KBU 1PG21G | 1657310000 |

**Note** Note: N = Plastic locking lever with stainless steel inlay



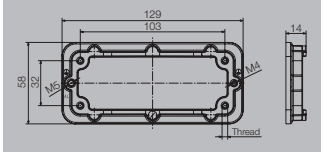

### Cover

| Version | Type | Order No. |
|---|---|---|
| For bases | HDC 16B DODQ 4BO | 1665260000 |




### Counter-frame

| | Version | b (mm) | Type | Order No. |
|---|---|---|---|---|
| | | 14 | HDC IP65 16B FRAME M4 | 1081570000 |



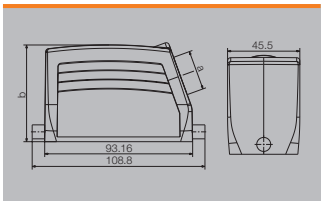
## End locking, lower side

## Size 6

### Hood

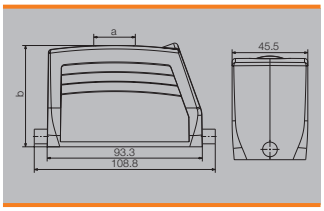
#### Plug housing, cable entry sideways

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 61 | HDC 16B TSLU 1M25G | 1788200000 |
| w. threading | 76 | HDC 40D TSLU 1M25G | 1787050000 |
| w. threading | 61 | HDC 16B TSLU 1M32G | 1804640000 |
| w. threading | 76 | HDC 40D TSLU 1M32G | 1787040000 |
| w. threading | 76 | HDC 40D TSLU 1M40G | 1804650000 |
| w. threading | 61 | HDC 16B TSLU 1PG21G | 1657850000 |
| w. threading | 76 | HDC 40D TSLU 1PG21G | 1657890000 |
| w. threading | 76 | HDC 40D TSLU 1PG29G | 1657910000 |




#### Plug housing, cable entry at top

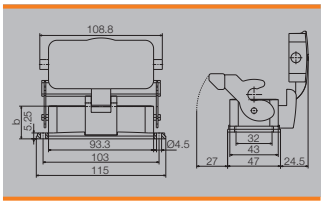
| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 61 | HDC 16B TOLU 1M25G | 1788230000 |
| w. threading | 61 | HDC 16B TOLU 1M32G | 1804630000 |
| w. threading | 76 | HDC 40D TOLU 1M32G | 1787100000 |
| w. threading | 61 | HDC 16B TOLU 1PG21G | 1657960000 |
| w. threading | 76 | HDC 40D TOLU 1PG29G | 1658020000 |




### Base

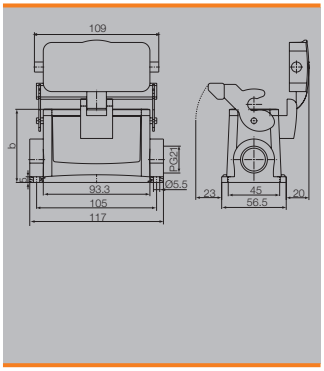
#### Bulkhead housing

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| | 30.3 | HDC 16B ALU | 1209700000 |
| | 30.3 | HDC 16B ADLU | 1210100000 |



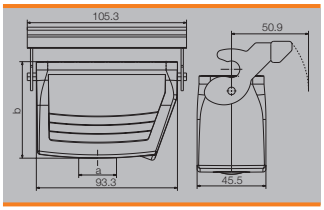

#### Base housing

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 64 | HDC 16B SLU 1M25G | 1900170000 |
| w. threading | 102 | HDC 40D SDLU 1M25G | 1903070000 |
| w. threading | 64 | HDC 16B SLU 2M25G | 1788250000 |
| w. threading | 82 | HDC 16B SDLU 2M25G | 1788270000 |
| w. threading | 102 | HDC 40D SDLU 2M25G | 1787180000 |
| w. threading | 84 | HDC 40D SLU 1M32G | 1903110000 |
| w. threading | 102 | HDC 40D SDLU 1M32G | 1903080000 |
| w. threading | 84 | HDC 40D SLU 2M32G | 1804660000 |
| w. threading | 102 | HDC 40D SDLU 2M32G | 1787170000 |
| w. threading | 64 | HDC 16B SLU 1PG21G | 1658110000 |
| w. threading | 82 | HDC 16B SDLU 1PG21G | 1658320000 |
| w. threading | 64 | HDC 16B SLU 2PG21G | 1658120000 |
| w. threading | 82 | HDC 16B SDLU 2PG21G | 1658330000 |
| w. threading | 102 | HDC 40D SDLU 1PG29G | 1658410000 |



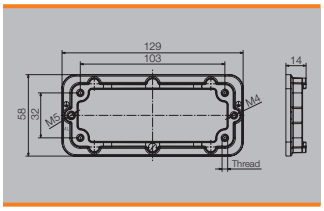

#### Coupling housing

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 65.1 | HDC 16B KLU 1M25G | 1788290000 |
| w. threading | 78.6 | HDC 40D KLU 1M25G | 1787220000 |




#### Counter-frame

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| | 14 | HDC IP65 16B FRAME M4 | 1081570000 |



# RockStar® IP65 Housings / NEMA Type 12, 4X

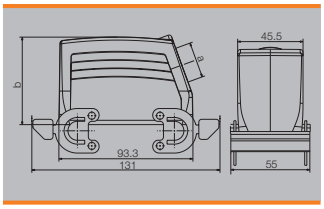
## Side locking, upper side

## Size 6

### Hood

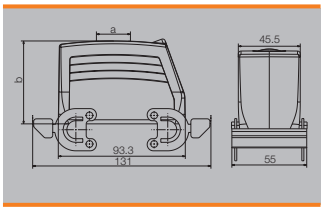
#### Plug housing, cable entry sideways

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 61 | HDC 16B TSBO 1M25G | 1788190000 |
| w. threading | 76 | HDC 40D TSBO 1M25G | 1787030000 |
| w. threading | 76 | HDC 40D TSBO 1M32G | 1787020000 |
| w. threading | 76 | HDC 40D TSBO 1M40G | 1202230000 |
| w. threading | 61 | HDC 16B TSBO 1PG21G | 1657380000 |
| w. threading | 76 | HDC 40D TSBO 1PG21G | 1657420000 |



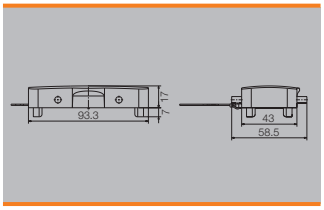

#### Plug housing, cable entry at top

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 61 | HDC 16B TOBO 1M25G | 1788220000 |
| w. threading | 61 | HDC 16B TOBO 1PG21G | 1657490000 |
| w. threading | 76 | HDC 40D TOBO 1PG29G | 1657550000 |




#### Cover

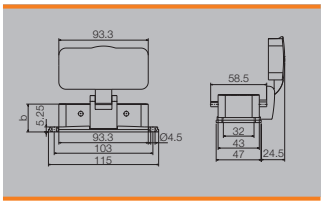
| Version | Type | Order No. |
|---|---|---|
| For hoods | HDC 16B DMDQ 4BO | 1665620000 |




### Base

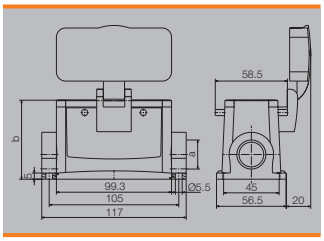
#### Bulkhead housing

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| | 29.05 | HDC 16B ADBO | 1209200000 |



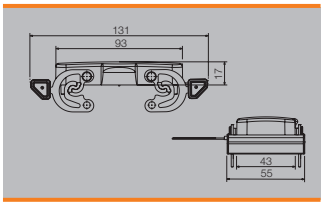

#### Base housing

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 64 | HDC 16B SDBO 1M25G | 1900080000 |
| w. threading | 64 | HDC 16B SDBO 2M25G | 1788260000 |
| w. threading | 64 | HDC 16B SDBO 2PG21G | 1657640000 |



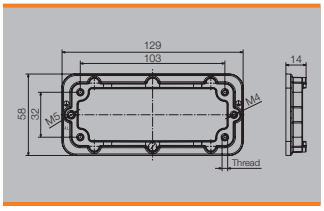

#### Cover

| Version | Type | Order No. |
|---|---|---|
| For bases | HDC 16B DODQ 2QB | 1009090000 |




#### Counter-frame

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| | 14 | HDC IP65 16B FRAME M4 | 1081570000 |



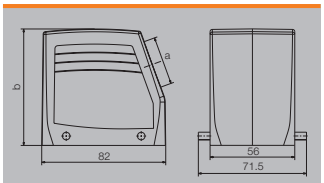
## Side locking, lower side

## Size 7

### Hood

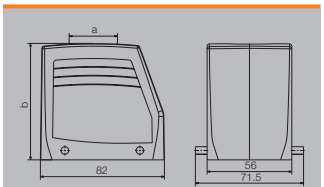
#### Plug housing, cable entry sideways

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 77 | HDC 32A TSBU 1M25G | 1787960000 |
| w. threading | 77 | HDC 32A TSBU 1M32G | 1787950000 |
| w. threading | 77 | HDC 32A TSBU 1PG21G | 1665670000 |
| w. threading | 77 | HDC 32A TSBU 1PG29G | 1665690000 |



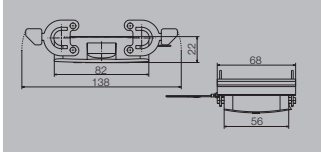

#### Plug housing, cable entry at top

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 77 | HDC 32A TOBU 1M32G | 1787990000 |
| w. threading | 77 | HDC 32A TOBU 1PG21G | 1665790000 |
| w. threading | 77 | HDC 32A TOBU 1PG29G | 1665810000 |




#### Cover

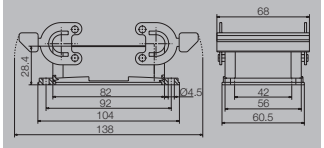
| Version | Type | Order No. |
|---|---|---|
| For hoods | HDC 32A DMDQ 2QB | 1665930000 |




### Base

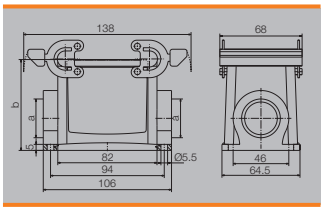
#### Bulkhead housing

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| | 30 | HDC 32A ABU | 1665860000 |



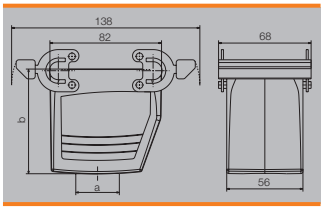

#### Base housing

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 75 | HDC 32A SBU 1M25G | 1903870000 |
| w. threading | 75 | HDC 32A SBU 2M25G | 1788040000 |
| w. threading | 75 | HDC 32A SBU 2PG21G | 1665980000 |
| w. threading | 75 | HDC 32A SBU 1PG29G | 1666010000 |



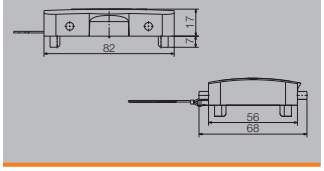

#### Coupling housing

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 77 | HDC 32A KBU 1M25G | 1788080000 |
| w. threading | 77 | HDC 32A KBU 1M32G | 1788070000 |




#### Cover

| Version | Type | Order No. |
|---|---|---|
| For bases | HDC 32A DODQ 4BO | 1665920000 |



# RockStar® IP65 Housings / NEMA Type 12, 4X

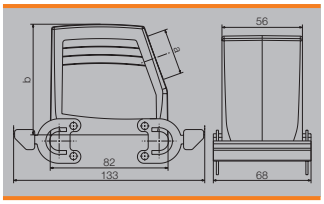
## Side locking, upper side

## Size 7

### Hood

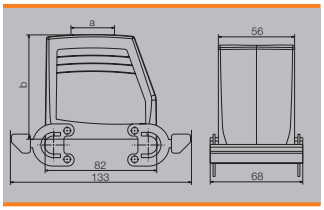
#### Plug housing, cable entry sideways

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 77 | HDC 32A TSBO 1M25G | 1787980000 |
| w. threading | 77 | HDC 32A TSBO 1M32G | 1787970000 |
| w. threading | 77 | HDC 32A TSBO 1PG29G | 1666270000 |




#### Plug housing, cable entry at top

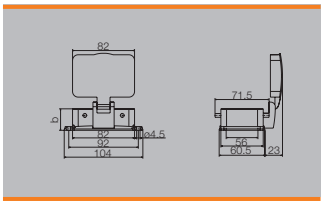
| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 77 | HDC 32A TOBO 1M32G | 1788010000 |




### Base

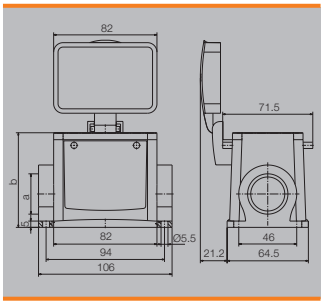
#### Bulkhead housing

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| | 30 | HDC 32A ADBO | 1666440000 |




#### Base housing

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 75 | HDC 32A SDBO 1M25G | 1903900000 |
| w. threading | 75 | HDC 32A SDBO 2M25G | 1788060000 |
| w. threading | 75 | HDC 32A SDBO 1M32G | 1903910000 |
| w. threading | 75 | HDC 32A SDBO 2M32G | 1788050000 |
| w. threading | 75 | HDC 32A SDBO 1PG21G | 1666550000 |
| w. threading | 75 | HDC 32A SDBO 1PG29G | 1666590000 |



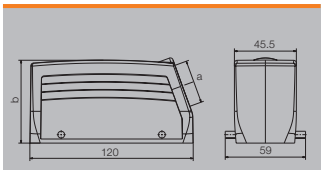
## Side locking, lower side

## Size 8

### Hood

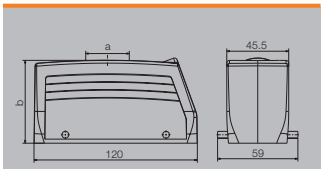
#### Plug housing, cable entry sideways

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 62.58 | HDC 24B TSBU 1M25G | 1787760000 |
| w. threading | 76 | HDC 64D TSBU 1M25G | 1786780000 |
| w. threading | 62.58 | HDC 24B TSBU 1M32G | 1787750000 |
| w. threading | 76 | HDC 64D TSBU 1M32G | 1786770000 |
| w. threading | 62.58 | HDC 24B TSBU 1M40G | 1902480000 |
| w. threading | 76 | HDC 64D TSBU 1M40G | 1809630000 |
| w. threading | 62.58 | HDC 24B TSBU 1PG21G | 1661230000 |
| w. threading | 76 | HDC 64D TSBU 1PG21G | 1661300000 |
| w. threading | 62.58 | HDC 24B TSBU 1PG29G | 1661240000 |
| w. threading | 76 | HDC 64D TSBU 1PG29G | 1661320000 |




#### Plug housing, cable entry at top

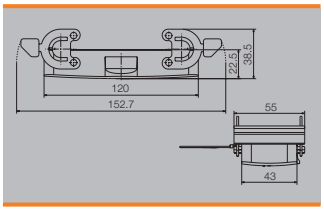
| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 62.58 | HDC 24B TOBU 1M25G | 1787820000 |
| w. threading | 62.58 | HDC 24B TOBU 1M32G | 1787810000 |
| w. threading | 76 | HDC 64D TOBU 1M32G | 1786830000 |
| w. threading | 76 | HDC 64D TOBU 2M32G | 1009710000 |
| w. threading | 62.58 | HDC 24B TOBU 1M40G | 1902980000 |
| w. threading | 76 | HDC 64D TOBU 1M40G | 1045560000 |
| w. threading | 62.58 | HDC 24B TOBU 1PG21G | 1661370000 |
| w. threading | 76 | HDC 64D TOBU 1PG21G | 1661440000 |
| w. threading | 62.58 | HDC 24B TOBU 1PG29G | 1661380000 |
| w. threading | 76 | HDC 64D TOBU 1PG29G | 1661460000 |




#### Cover

| Version | Type | Order No. |
|---|---|---|
| For hoods | HDC 24B DMDQ 2QB | 1665640000 |
| For hoods | HDC 24B DMDQ 2QB N | 2559760000 |

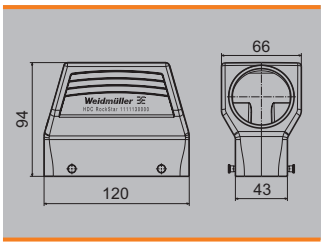
| Note | Note: N = Plastic locking lever with stainless steel inlay |
|---|---|




### Hood

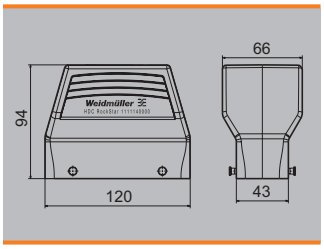
#### XXL plug housing, cable entry sideways

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 76 | HDC 64D TSBU 1M50G | 1111130000 |




#### XXL plug housing, cable entry on top

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 76 | HDC 64D TOBU 1M50G | 1111140000 |



## Side locking, lower side

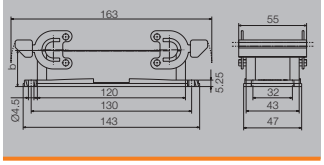
## Size 8

## Base

### Bulkhead housing

| | Version | b (mm) | Type | Order No. |
|---|---|---|---|---|
| | | 29.5 | HDC 24B ABU | 1212400000 |
| | | 29.5 | HDC 24B ABU N | 2488600000 |

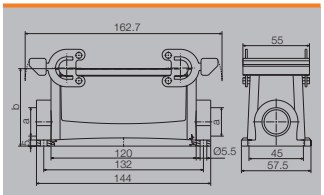
**Note** Note: N = Plastic locking lever with stainless steel inlay




### Base housing

| | Version | b (mm) | Type | Order No. |
|---|---|---|---|---|
| | w. threading | 64 | HDC 24B SBU 2M25G | 1787870000 |
| | w. threading | 64 | HDC 24B SBU 1M25G | 1901150000 |
| | w. threading | 84 | HDC 64D SBU 1M25G | 1904340000 |
| | w. threading | 64 | HDC 24B SBU 2M25G N | 2560970000 |
| | w. threading | 84 | HDC 64D SBU 2M25G | 1786890000 |
| | w. threading | 64 | HDC 24B SBU 1M25G N | 2560960000 |
| | w. threading | 84 | HDC 64D SBU 2M25G N | 2561060000 |
| | w. threading | 84 | HDC 64D SBU 1M32G N | 2561050000 |
| | w. threading | 84 | HDC 64D SBU 2M32G | 1786880000 |
| | w. threading | 84 | HDC 64D SBU 1M32G | 1904350000 |
| | w. threading | 64 | HDC 24B SBU 1PG21G | 1661510000 |
| | w. threading | 64 | HDC 24B SBU 1PG21G N | 2560750000 |
| | w. threading | 64 | HDC 24B SBU 2PG21G | 1661520000 |
| | w. threading | 84 | HDC 64D SBU 2PG21G | 1661590000 |

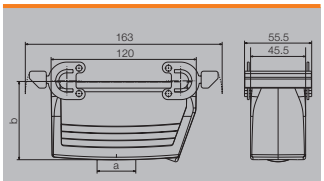
**Note** Note: N = Plastic locking lever with stainless steel inlay




### Coupling housing

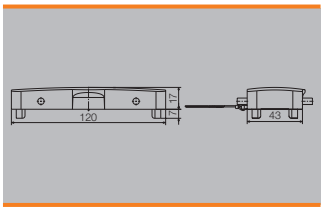
| | Version | b (mm) | Type | Order No. |
|---|---|---|---|---|
| | w. threading | 65 | HDC 24B KBU 1M25G | 1787920000 |
| | w. threading | 65 | HDC 24B KBU 1M25G N | 2559870000 |
| | w. threading | 65 | HDC 24B KBU 2M32G N | 2559880000 |
| | w. threading | 79 | HDC 64D KBU 1M32G | 1786960000 |
| | w. threading | 79 | HDC 64D KBU 1M32G N | 2559910000 |
| | w. threading | 65 | HDC 24B KBU 1PG21G | 1661720000 |
| | w. threading | 65 | HDC 24B KBU 1PG29G | 1661730000 |

**Note** Note: N = Plastic locking lever with stainless steel inlay



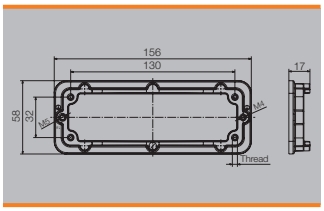

### Cover

| Version | Type | Order No. |
|---|---|---|
| For bases | HDC 24B DODQ 4BO | 1665630000 |




### Counter-frame

| | Version | b (mm) | Type | Order No. |
|---|---|---|---|---|
| | | 17 | HDC IP65 24B FRAME M4 | 1081580000 |



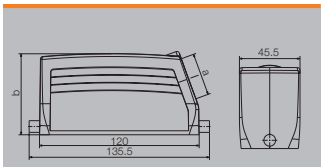
## End locking, lower side

## Size 8

### Hood

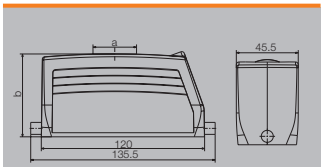
**Plug housing, cable entry sideways**

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 62.58 | HDC 24B TSLU 1M25G | 1787800000 |
| w. threading | 62.58 | HDC 24B TSLU 1M32G | 1787790000 |
| w. threading | 76 | HDC 64D TSLU 1M32G | 1786810000 |
| w. threading | 76 | HDC 64D TSLU 1M40G | 1804610000 |
| w. threading | 62.58 | HDC 24B TSLU 1PG21G | 1662390000 |
| w. threading | 76 | HDC 64D TSLU 1PG21G | 1662470000 |
| w. threading | 62.58 | HDC 24B TSLU 1PG29G | 1662410000 |
| w. threading | 76 | HDC 64D TSLU 1PG29G | 1662490000 |




**Plug housing, cable entry at top**

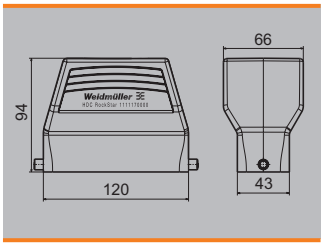
| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 62.58 | HDC 24B TOLU 1M25G | 1787860000 |
| w. threading | 76 | HDC 64D TOLU 1M25G | 1786870000 |
| w. threading | 62.58 | HDC 24B TOLU 1M32G | 1787850000 |
| w. threading | 76 | HDC 64D TOLU 1M32G | 1786860000 |
| w. threading | 76 | HDC 64D TOLU 1M40G | 1983470000 |
| w. threading | 62.58 | HDC 24B TOLU 1PG21G | 1662540000 |
| w. threading | 76 | HDC 64D TOLU 1PG21G | 1662610000 |
| w. threading | 62.58 | HDC 24B TOLU 1PG29G | 1662550000 |
| w. threading | 76 | HDC 64D TOLU 1PG29G | 1662630000 |




### Hood

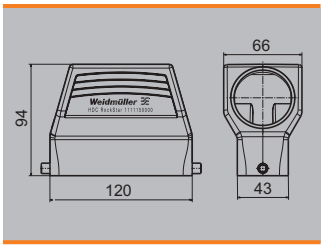
**XXL plug housing, cable entry sideways**

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 76 | HDC 64D TSLU 1M50G | 1111150000 |




**XXL plug housing, cable entry on top**

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 76 | HDC 64D TOLU 1M50G | 1111170000 |



# RockStar® IP65 Housings / NEMA Type 12, 4X

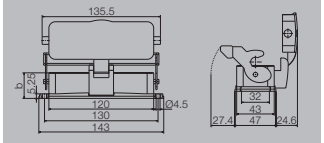
## End locking, lower side

## Size 8

## Base

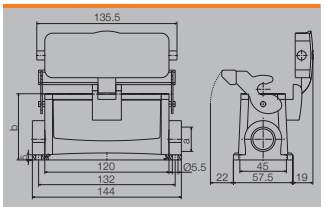
### Bulkhead housing

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| | 29.3 | HDC 24B ALU | 1213900000 |
| | 29.3 | HDC 24B ADLU | 1214300000 |



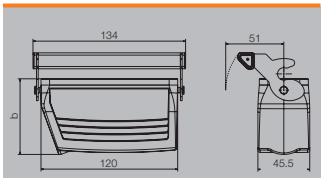

### Base housing

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 64 | HDC 24B SLU 1M25G | 1901560000 |
| w. threading | 64 | HDC 24B SDLU 1M25G | 1901480000 |
| w. threading | 84 | HDC 64D SLU 1M25G | 1904480000 |
| w. threading | 84 | HDC 64D SDLU 1M25G | 1904430000 |
| w. threading | 64 | HDC 24B SLU 2M25G | 1787880000 |
| w. threading | 64 | HDC 24B SDLU 2M25G | 1787900000 |
| w. threading | 84 | HDC 64D SLU 2M25G | 1786910000 |
| w. threading | 84 | HDC 64D SDLU 2M25G | 1786950000 |
| w. threading | 84 | HDC 64D SLU 1M32G | 1904490000 |
| w. threading | 84 | HDC 64D SDLU 1M32G | 1904440000 |
| w. threading | 84 | HDC 64D SLU 2M32G | 1786900000 |
| w. threading | 84 | HDC 64D SDLU 2M32G | 1786940000 |
| w. threading | 64 | HDC 24B SLU 2PG21G | 1662720000 |
| w. threading | 64 | HDC 24B SDLU 2PG21G | 1214500000 |
| w. threading | 84 | HDC 64D SDLU 2PG29G | 1663040000 |



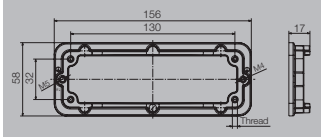

### Coupling housing

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 66 | HDC 24B KLU 1M25G | 1968340000 |




### Counter-frame

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| | 17 | HDC IP65 24B FRAME M4 | 1081580000 |



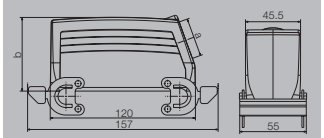
## Side locking, upper side

## Size 8

### Hood

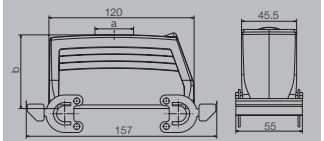
**Plug housing, cable entry sideways**

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 62.58 | HDC 24B TSBO 1M25G | 1787780000 |
| w. threading | 76 | HDC 64D TSBO 1M25G | 1786800000 |
| w. threading | 62.58 | HDC 24B TSBO 1M32G | 1787770000 |
| w. threading | 76 | HDC 64D TSBO 1M32G | 1786790000 |
| w. threading | 62.58 | HDC 24B TSBO 1PG21G | 1661860000 |
| w. threading | 76 | HDC 64D TSBO 1PG21G | 1661940000 |
| w. threading | 62.58 | HDC 24B TSBO 1PG29G | 1661880000 |
| w. threading | 76 | HDC 64D TSBO 1PG29G | 1661960000 |



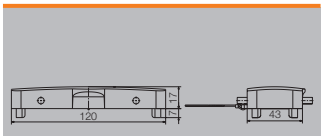

**Plug housing, cable entry at top**

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 62.58 | HDC 24B TOBO 1M32G | 1787830000 |
| w. threading | 76 | HDC 64D TOBO 1PG21G | 1662080000 |
| w. threading | 62.58 | HDC 24B TOBO 1PG29G | 1662020000 |
| w. threading | 76 | HDC 64D TOBO 1PG29G | 1662100000 |




**Cover**

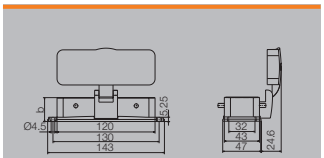
| Version | Type | Order No. |
|---|---|---|
| For hoods | HDC 24B DMDQ 4BO | 1665650000 |




### Base

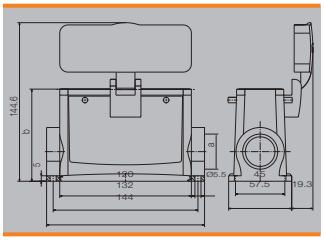
**Bulkhead housing**

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| | 29 | HDC 24B ABO | 1967910000 |
| | 29 | HDC 24B ADBO | 1213300000 |



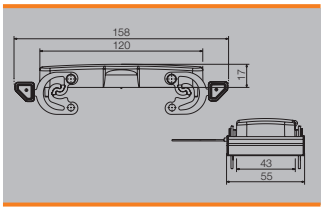

**Base housing**

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 84 | HDC 64D SDBO 1M32G | 1904400000 |
| w. threading | 84 | HDC 64D SDBO 2M32G | 1786920000 |
| w. threading | 64 | HDC 24B SDBO 2PG21G | 1662180000 |
| w. threading | 84 | HDC 64D SDBO 1PG29G | 1662280000 |




**Cover**

| Version | Type | Order No. |
|---|---|---|
| For bases | HDC 24B DODQ 2QB | 1009100000 |



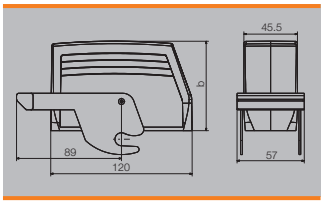
## Central-locking clamp

## Size 8

### Hood

**Plug housing, cable entry sideways**

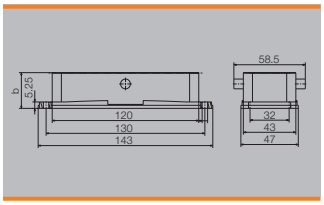
| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 76 | HDC 64D TSZO 1M40G | **1904690000** |
| w. threading | 76 | HDC 64D TSZO 1PG21G | **1663370000** |
| w. threading | 76 | HDC 64D TSZO 1PG29G | **1663390000** |




### Base

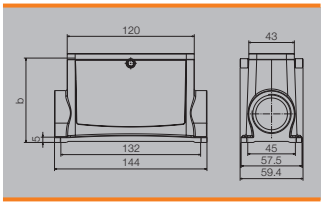
**Bulkhead housing**

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| | 29 | HDC 24B AZO | **1611350000** |



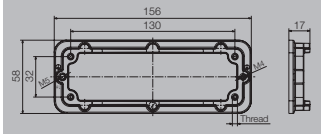

**Base housing**

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 79.7 | HDC 64D SZO 2PG29G | **1968370000** |




**Counter-frame**

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| | 17 | HDC IP65 24B FRAME M4 | **1081580000** |



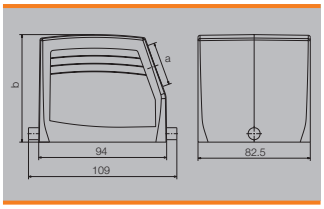
## End locking, lower side

## Size 9

### Hood

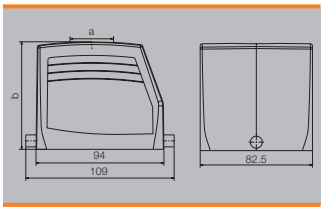
#### Plug housing, cable entry sideways

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 78 | HDC 48A TSLU 1M32G | 1788550000 |
| w. threading | 78 | HDC 48A TSLU 1PG29G | 1666710000 |




#### Plug housing, cable entry at top

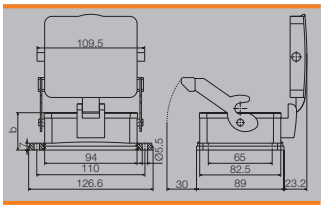
| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 78 | HDC 48A TOLU 1M32G | 1788560000 |
| w. threading | 78 | HDC 48A TOLU 1PG29G | 1666730000 |




### Base

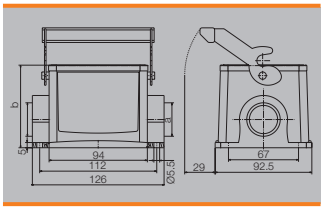
#### Bulkhead housing

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| | 40 | HDC 48A ALU | 1666740000 |
| | 40 | HDC 48A ADLU | 1666750000 |




#### Base housing

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 79 | HDC 48A SLU 2M32G | 1788570000 |
| w. threading | 79 | HDC 48A SLU 1PG29G | 1666770000 |
| w. threading | 79 | HDC 48A SDLU 1PG29G | 1666810000 |



# RockStar® IP65 Housings / NEMA Type 12, 4X

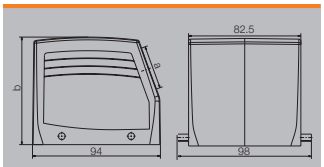
## Side locking, lower side

## Size 10

### Hood

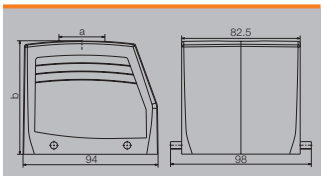
#### Plug housing, cable entry sideways

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 79 | HDC 32B TSBU 1M32G | 1788400000 |
| w. threading | 79 | HDC 32B TSBU 1PG29G | 1666840000 |




#### Plug housing, cable entry at top

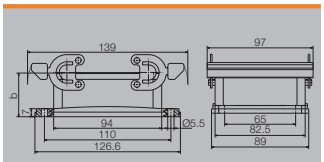
| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 79 | HDC 32B TOBU 1M32G | 1788430000 |
| w. threading | 79 | HDC 32B TOBU 1PG29G | 1666870000 |




### Base

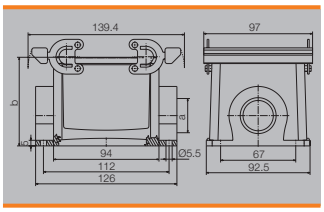
#### Bulkhead housing

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| | 38 | HDC 32B ABU | 1217800000 |



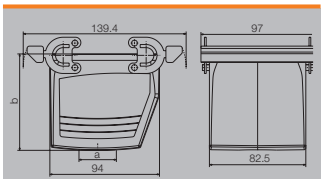

#### Base housing

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 79 | HDC 32B SBU 1M32G | 1902600000 |
| w. threading | 79 | HDC 32B SBU 2M32G | 1788460000 |
| | | HDC 32B SBU 2M40G CS | 1301990000 |
| w. threading | 79 | HDC 32B SBU 2PG29G | 1666920000 |
| w. threading | 79 | HDC 32B SBU 1PG36G | 1902610000 |
| w. threading | 79 | HDC 32B SBU 2PG36G | 1902640000 |



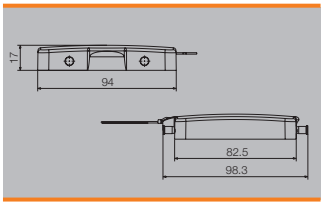

#### Coupling housing

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 83 | HDC 32B KBU 1M40G | 1902730000 |
| w. threading | 83 | HDC 32B KBU 1PG29G | 1902740000 |
| w. threading | 83 | HDC 32B KBU 1PG36G | 1902750000 |




#### Cover

| Version | Type | Order No. |
|---|---|---|
| For bases | HDC 32B DODQ 4BO | 1165790000 |



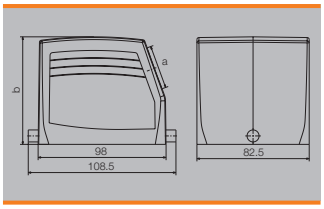
## End locking, lower side

## Size 10

### Hood

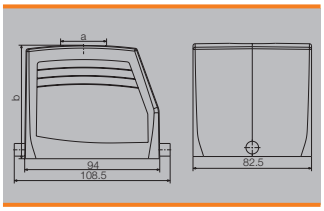
#### Plug housing, cable entry sideways

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 79 | HDC 32B TSLU 1M32G | 1788420000 |
| w. threading | 79 | HDC 32B TSLU 1PG29G | 1667120000 |




#### Plug housing, cable entry at top

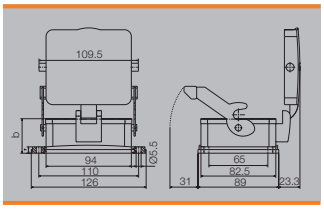
| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 79 | HDC 32B TOLU 1M32G | 1788450000 |
| w. threading | 79 | HDC 32B TOLU 1PG29G | 1219300000 |




### Base

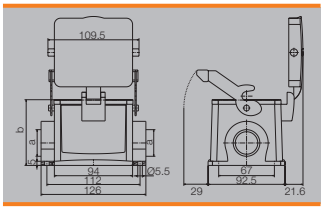
#### Bulkhead housing

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| | 38 | HDC 32B ALU | 1219500000 |
| | 55 | HDC 32B ADLU | 1219800000 |



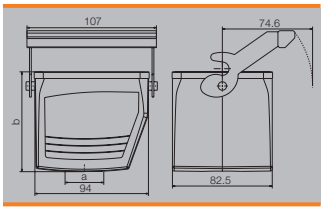

#### Base housing

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 79 | HDC 32B SLU 1M32G | 1902670000 |
| w. threading | 96 | HDC 32B SDLU 1M32G | 1902650000 |
| w. threading | 79 | HDC 32B SLU 2M32G | 1788470000 |
| w. threading | 96 | HDC 32B SDLU 2M32G | 1788490000 |




#### Coupling housing

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 83 | HDC 32B KLU 1M32G | 1788500000 |



# RockStar® IP65 Housings / NEMA Type 12, 4X

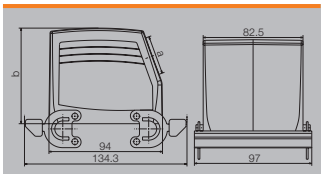
## Side locking, upper side

## Size 10

### Hood

**Plug housing, cable entry sideways**

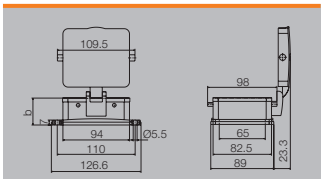
| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 79 | HDC 32B TSBO 1M32G | **1788410000** |




### Base

**Bulkhead housing**

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| | 55 | HDC 32B ADBO | **1218800000** |




D

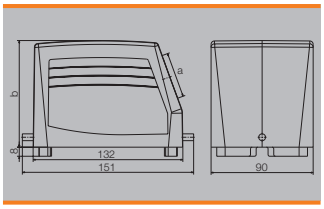
## End locking, lower side

## Size 12

### Hood

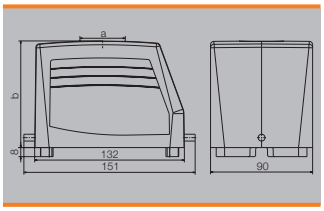
#### Plug housing, cable entry sideways

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 94 | HDC 48B TSLU 1M32G | 1788320000 |
| w. threading | 94 | HDC 48B TSLU 1M40G | 1788310000 |
| w. threading | 94 | HDC 48B TSLU 1M50G | 1788300000 |
| w. threading | 94 | HDC 48B TSLU 1PG29G | 1650850000 |
| w. threading | 94 | HDC 48B TSLU 1PG36G | 1650860000 |
| w. threading | 94 | HDC 48B TSLU 1PG42G | 1670470000 |




#### Plug housing, cable entry at top

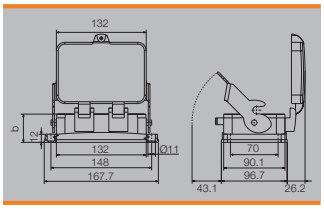
| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 94 | HDC 48B TOLU 1M32G | 1788350000 |
| w. threading | 94 | HDC 48B TOLU 1M40G | 1788340000 |
| w. threading | 94 | HDC 48B TOLU 1M50G | 1788330000 |
| w. threading | 94 | HDC 48B TOLU 1PG29G | 1650980000 |
| w. threading | 94 | HDC 48B TOLU 1PG36G | 1651000000 |




### Base

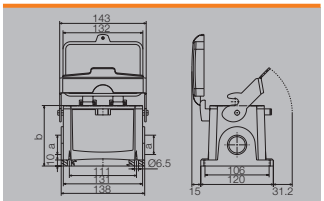
#### Bulkhead housing

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| | 62 | HDC 48B ADLU | 1222900000 |
| | 41.5 | HDC 48B ALU | 1295600000 |




#### Base housing

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 100 | HDC 48B SLU 1M32G | 1904190000 |
| w. threading | 120 | HDC 48B SDLU 1M32G | 1904150000 |
| w. threading | 100 | HDC 48B SLU 2M32G | 1788370000 |
| w. threading | 120 | HDC 48B SDLU 2M32G | 1788390000 |
| w. threading | 100 | HDC 48B SLU 2M40G | 1788360000 |
| w. threading | 120 | HDC 48B SDLU 2M40G | 1983500000 |
| w. threading | 120 | HDC 48B SDLU 2M50G | 1983510000 |
| w. threading | 100 | HDC 48B SLU 1PG29G | 1651100000 |
| w. threading | 120 | HDC 48B SDLU 1PG29G | 1799810000 |
| w. threading | 120 | HDC 48B SDLU 2PG29G | 1667560000 |



# RockStar® Housings IP65 / EMC


**RockStar® Housings IP65 / EMC**

**Introduction** E.2

**RockStar® Housings IP65 / EMC** E.4

Size 3, 4, 6 and 8

# Optimal protection against electric or electromagnetic fields

## HDC IP65 EMC enclosure with above-average shielding properties

Protection against electrical and electromagnetic influences is essential in many industries to ensure fault-free operation. RockStar® HDC IP65 EMC enclosures can be used wherever optimal shielding with low transfer impedance is required.

The labyrinth structure on the housing enables reliable data transmission, which reduces the risk of system failure and increases productivity. The FPM sealing material permits RockStar® HDC IP65 EMC enclosures to be used indoors as well as outdoors. With only one type of enclosure, the number of storage items decreases significantly. The conductive and corrosion-resistant surface coating meets increased environmental requirements and lowers procurement costs.



**Your special advantages**

- Effective labyrinth structure for secure data transmission
- Extremely reliable FPM seals for indoor and outdoor use
- Internal O-ring seal for quick and easy installation

**Effective labyrinth structure**
Excellent shielding effect is achieved due to the unique labyrinth structure and the large contact area between the bulkhead mount and hoods.

**Corrosion-resistant, conductive surface**
The unique surface finish makes the housing impact-resistant, electrically conductive and corrosion-resistant–even in seawater environments.

**Robust sealing material**
The ozone- and UV-resistant sealing material FPM withstands an extended temperature range from –40 to +150 °C.

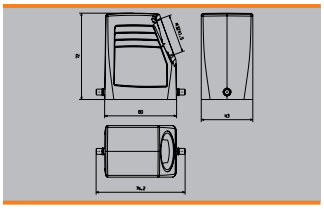
## Housing selection RockStar® IP65 EMC

### Size 3

### Hood

**Plug housing**

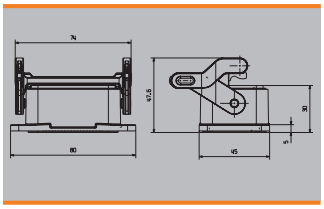
| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | | HDC 16D TOLU 1M32G EMC | 2543970000 |
| w. threading | | HDC 16D TSLU 1M32G EMC | 2543960000 |



### Base

**Bulkhead housing**

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| | | HDC 06B ALU EMC | 2542230000 |



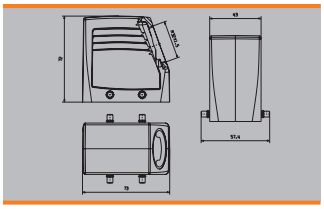
## Housing selection RockStar® IP65 EMC

### Size 4

### Hood

**Plug housing**

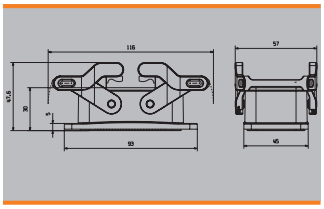
| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | | HDC 24D TOBU 1M32G EMC | 2544020000 |
| w. threading | | HDC 24D TSBU 1M32G EMC | 2544010000 |



### Base

**Bulkhead housing**

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| | | HDC 10B ABU EMC | 2542310000 |



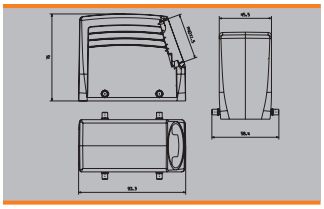
## Housing selection RockStar® IP65 EMC

### Size 6

### Hood

**Plug housing**

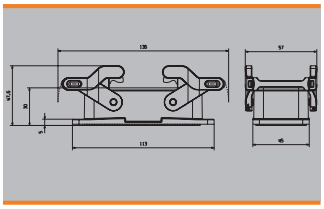
| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | | HDC 40D TOBU 1M40G EMC | **2544040000** |
| w. threading | | HDC 40D TSBU 1M40G EMC | **2544030000** |



### Base

**Bulkhead housing**

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| | | HDC 16B ABU EMC | **2542320000** |



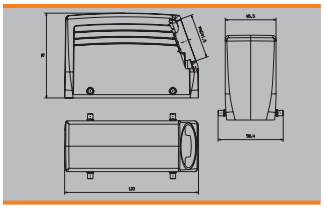
## Housing selection RockStar® IP65 EMC

### Size 8

### Hood

**Plug housing**

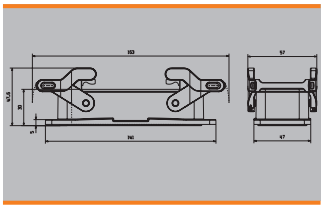
| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | | HDC 64D TOBU 1M40G EMC | 2544060000 |
| w. threading | | HDC 64D TSBU 1M40G EMC | 2544050000 |



### Base

**Bulkhead housing**

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| | | HDC 24B ABU EMC | 2527810000 |



# RockStar® Housings IP66 / IP68 / EMC


**RockStar® Housings IP66 / IP68 / EMC**

**Introduction** F.2

**RockStar® Housings IP66 / IP68 / EMC** F.4

Size 1 - 8

# RockStar® Housings IP66 / IP68 / EMC

The RockStar® IP68 and IP69K housings are resistant to sea water and high impacts. They are designed for use under extreme environmental conditions and comply with the high vibration requirements of DIN EN 61373 Cat 2 (pivot mounting). These housings deliver a fail-safe and maintenance-free solution when using heavy-duty connectors in transportation, traffic engineering and energy technology.  They are also suitable for applications subject to extreme climatic conditions.
Weidmüller has designed the RockStar® IP68 housings with additional built-in features that ensure outstanding EMC. The bulkhead or base housing, combined with the plug housing, produces a labyrinth structure which ensures high shield attenuation.
RockStar® IP68 housings are available in sizes 1, 3, 4, 6, 8 and 8 XXL; they can be combined with all fixed-pole and modular inserts.

**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.

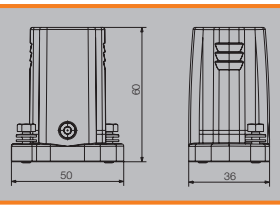
## Screw interlock

## Size 1

### Hood

#### Plug housing, cable entry at top

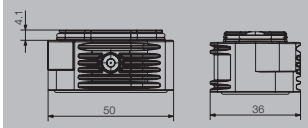
| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | | HDC IP68 04A TOS 1M20 | 1082390000 |
| w. threading | | HDC IP68 04A TOS 1M25G | 1513390000 |
| w. threading | | HDC IP68 04A TOS 1PG13 | 1082410000 |




### Base

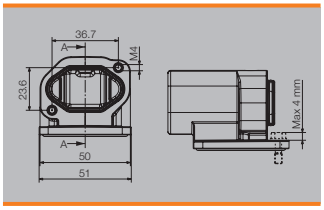
#### Bulkhead housing

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| | | HDC IP68 04A AS | 1081470000 |



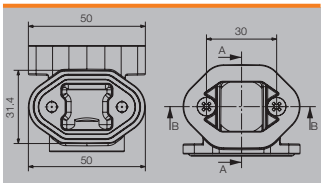

#### Angled bulkhead housing

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | | HDC IP68 04A AWS 1M20 | 1081480000 |
| | | HDC IP68 04A AWS | 1081490000 |
| w. threading | | HDC IP68 04A AWS 1M25 | 2430170000 |



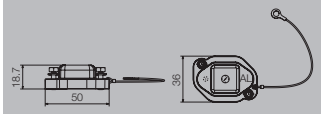

#### Adapter

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| | | HDC IP68 04A ADS | 1083130000 |
| w. threading | | HDC IP68 04A ADS 1PG13 | 1083120000 |




#### Cover

| Version | Type | Order No. |
|---|---|---|
| | HDC IP68 04A COVER | 1083110000 |



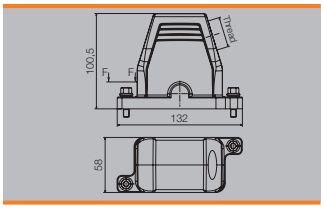
## Screw interlock

## Size 3

## Hood

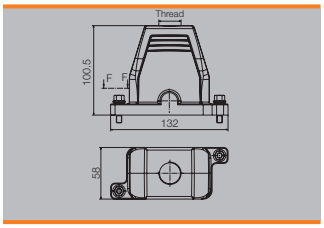
### Plug housing, cable entry sideways

| | Version | b (mm) | Type | Order No. |
|---|---|---|---|---|
| | w. threading | | HDC IP68 06B TSS 1M20 | **1082510000** |
| | w. threading | | HDC IP68 06B TSS 1M25 | **1082530000** |
| | w. threading | | HDC IP68 06B TSS 1M32 | **1082550000** |
| | w. threading | | HDC IP68 06B TSS 1PG16 | **1082560000** |
| | w. threading | | HDC IP68 06B TSS 1PG21 | **1082570000** |




### Plug housing, cable entry at top

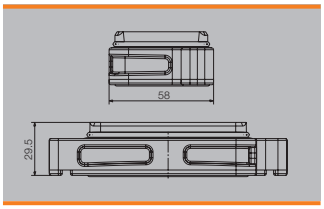
| | Version | b (mm) | Type | Order No. |
|---|---|---|---|---|
| | w. threading | | HDC IP68 06B TOS 1M20 | **1082420000** |
| | w. threading | | HDC IP68 06B TOS 1M25 | **1082430000** |
| | w. threading | | HDC IP68 06B TOS 1M32 | **1082440000** |
| | w. threading | | HDC IP68 06B TOS 1M40 | **1082450000** |
| | w. threading | | HDC IP68 06B TOS 1PG16 | **1082460000** |
| | w. threading | | HDC IP68 06B TOS 1PG21 | **1082470000** |
| | w. threading | | HDC IP68 06B TOS 1PG29 | **1082480000** |
| **Note** | Article 1288190000 is mounted with an external earth connection. | | | |




## Base

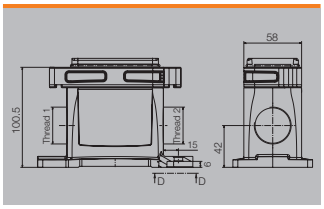
### Bulkhead housing

| | Version | b (mm) | Type | Order No. |
|---|---|---|---|---|
| | | | HDC IP68 06B AS | **1081510000** |



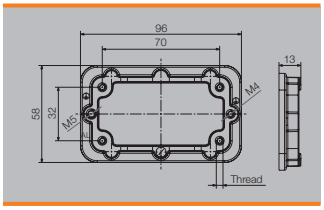

### Base housing

| | Version | b (mm) | Type | Order No. |
|---|---|---|---|---|
| | w. threading | | HDC IP68 06B SS 1M20 | **1081180000** |
| | w. threading | | HDC IP68 06B SS 2M20 | **1081250000** |
| | w. threading | | HDC IP68 06B SS 1M25 | **1081190000** |
| | w. threading | | HDC IP68 06B SS 2M25 | **1081240000** |
| | w. threading | | HDC IP68 06B SS 1M32 | **1081210000** |
| | w. threading | | HDC IP68 06B SS 2M32 | **1081220000** |
| | w. threading | | HDC IP68 06B SS 1PG29 | **1081230000** |
| | w. threading | | HDC IP68 06B SS 2PG29 | **1081260000** |



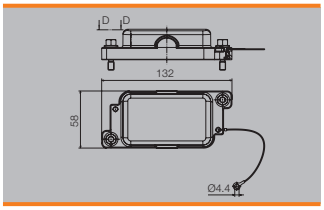

### Counter-frame

| | Version | b (mm) | Type | Order No. |
|---|---|---|---|---|
| | | | HDC IP68 06B FRAME M6 | **1110890000** |




### Cover

| Version | Type | Order No. |
|---|---|---|
| | HDC IP68 06B COVER | **1083060000** |



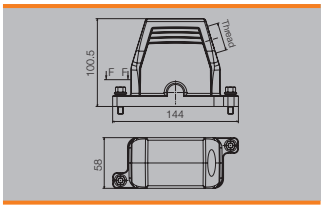
## Screw interlock

## Size 4

### Hood

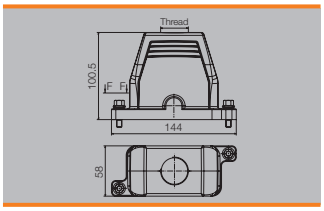
#### Plug housing, cable entry sideways

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | | HDC IP68 10B TSS 1M20 | 1082690000 |
| w. threading | | HDC IP68 10B TSS 1M25 | 1082650000 |
| w. threading | | HDC IP68 10B TSS 1M32 | 1082660000 |
| w. threading | | HDC IP68 10B TSS 1PG21 | 1082670000 |
| w. threading | | HDC IP68 10B TSS 1PG29 | 1082680000 |




#### Plug housing, cable entry at top

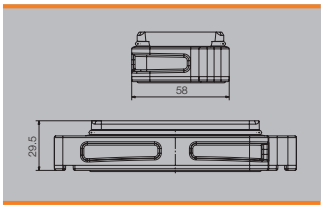
| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | | HDC IP68 10B TOS 1M20 | 1082580000 |
| w. threading | | HDC IP68 10B TOS 1M25 | 1082590000 |
| w. threading | | HDC IP68 10B TOS 1M32 | 1082610000 |
| w. threading | | HDC IP68 10B TOS 1PG16 | 1082620000 |
| w. threading | | HDC IP68 10B TOS 1PG21 | 1082630000 |
| w. threading | | HDC IP68 10B TOS 1PG29 | 1082640000 |




### Base

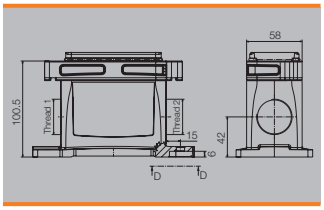
#### Bulkhead housing

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| | | HDC IP68 10B AS | 1081520000 |



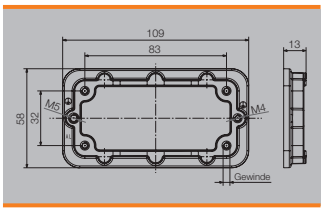

#### Base housing

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | | HDC IP68 10B SS 1M20 | 1081270000 |
| w. threading | | HDC IP68 10B SS 2M20 | 1081310000 |
| w. threading | | HDC IP68 10B SS 1M32 | 1081280000 |
| w. threading | | HDC IP68 10B SS 2M32 | 1081320000 |
| w. threading | | HDC IP68 10B SS 1PG29 | 1081290000 |
| w. threading | | HDC IP68 10B SS 2PG29 | 1081330000 |



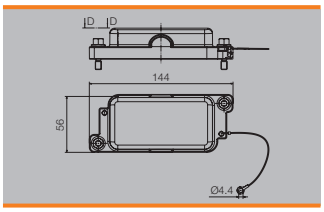

#### Counter-frame

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| | | HDC IP68 10B FRAME M6 | 1110900000 |




#### Cover

| Version | Type | Order No. |
|---|---|---|
| | HDC IP68 10B COVER | 1083070000 |



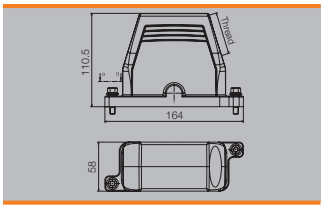
## Screw interlock

## Size 6

### Hood

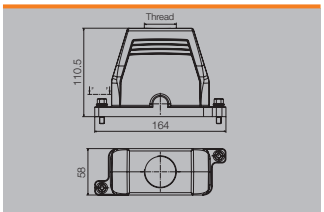
#### Plug housing, cable entry sideways

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 164 | HDC IP68 16B TSS 1M32 | 1082800000 |
| w. threading | 164 | HDC IP68 16B TSS 1M40 | 1082810000 |
| w. threading | 164 | HDC IP68 16B TSS 1M50 | 1082820000 |
| w. threading | 164 | HDC IP68 16B TSS 1PG21 | 1082830000 |
| w. threading | 164 | HDC IP68 16B TSS 1PG29 | 1082840000 |
| w. threading | 164 | HDC IP68 16B TSS 1PG36 | 1082850000 |




#### Plug housing, cable entry at top

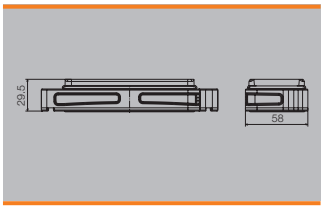
| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 164 | HDC IP68 16B TOS 1M25 | 1082700000 |
| w. threading | 164 | HDC IP68 16B TOS 2M25 | 1082780000 |
| w. threading | 164 | HDC IP68 16B TOS 1M32 | 1082710000 |
| w. threading | 164 | HDC IP68 16B TOS 1M40 | 1082720000 |
| w. threading | 164 | HDC IP68 16B TOS 1M50 | 1082730000 |
| w. threading | 164 | HDC IP68 16B TOS 1PG21 | 1082750000 |
| w. threading | 164 | HDC IP68 16B TOS 2PG21 | 1082740000 |
| w. threading | 164 | HDC IP68 16B TOS 1PG29 | 1082760000 |
| w. threading | 164 | HDC IP68 16B TOS 1PG36 | 1082770000 |




### Base

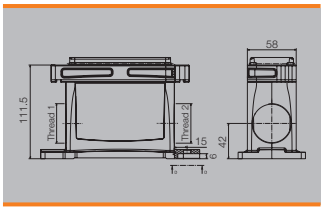
#### Bulkhead housing

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| | 21 | HDC IP68 16B AS | 1081530000 |



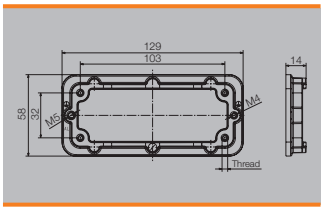

#### Base housing

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| | 111.5 | HDC IP68 16B SS | 1081340000 |
| w. threading | 111.5 | HDC IP68 16B SS 1M32 | 1081350000 |
| w. threading | 111.5 | HDC IP68 16B SS 2M32 | 1081390000 |
| w. threading | 111.5 | HDC IP68 16B SS 1M40 | 1081360000 |
| w. threading | 111.5 | HDC IP68 16B SS 2M40 | 1081370000 |
| w. threading | 111.5 | HDC IP68 16B SS 1PG36 | 1081380000 |



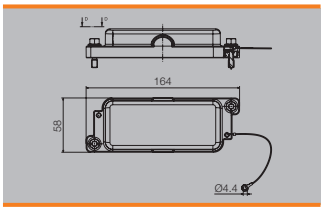

#### Counter-frame

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| | 14 | HDC IP68 16B FRAME M6 | 1110910000 |




#### Cover

| Version | Type | Order No. |
|---|---|---|
| | HDC IP68 16B COVER | 1083080000 |



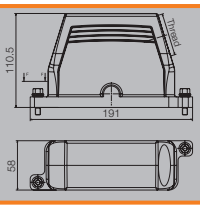
## Screw interlock

## Size 8

### Hood

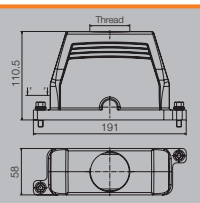
#### Plug housing, cable entry sideways

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 110.5 | HDC IP68 24B TSS 1M32 | **1082970000** |
| w. threading | 110.5 | HDC IP68 24B TSS 1M40 | **1082980000** |
| w. threading | 110.5 | HDC IP68 24B TSS 1M50 | **1082990000** |
| w. threading | 110.5 | HDC IP68 24B TSS 1PG29 | **1083000000** |
| w. threading | 110.5 | HDC IP68 24B TSS 1PG36 | **1083010000** |




#### Plug housing, cable entry at top

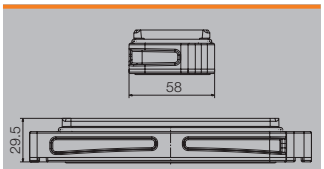
| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 110.5 | HDC IP68 24B TOS 3M25 | **1082960000** |
| w. threading | 110.5 | HDC IP68 24B TOS 1M32 | **1082860000** |
| w. threading | 110.5 | HDC IP68 24B TOS 2M32 | **1082940000** |
| w. threading | 110.5 | HDC IP68 24B TOS 1M40 | **1082870000** |
| w. threading | 110.5 | HDC IP68 24B TOS 2M40 | **1082950000** |
| w. threading | 110.5 | HDC IP68 24B TOS 1M50 | **1082880000** |
| w. threading | 110.5 | HDC IP68 24B TOS 1PG21 | **1082900000** |
| w. threading | 110.5 | HDC IP68 24B TOS 1PG29 | **1082920000** |
| w. threading | 110.5 | HDC IP68 24B TOS 2PG29 | **1082910000** |
| w. threading | 110.5 | HDC IP68 24B TOS 1PG36 | **1082930000** |
| w. threading | 110.5 | HDC IP68 24B TOS 2M40 TSS 1M32 | **1289130000** |




### Base

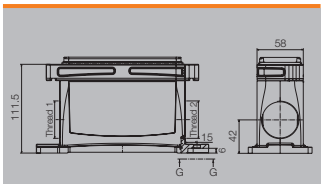
#### Bulkhead housing

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| | 29.5 | HDC IP68 24B AS | **1081540000** |



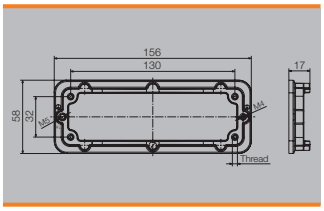

#### Base housing

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| | 111.5 | HDC IP68 24B SS | **1081450000** |
| w. threading | 111.5 | HDC IP68 24B SS 1M40 | **1081410000** |
| w. threading | 111.5 | HDC IP68 24B SS 2M40 | **1081420000** |
| w. threading | 111.5 | HDC IP68 24B SS 1PG36 | **1081430000** |
| w. threading | 111.5 | HDC IP68 24B SS 2PG36 | **1081440000** |



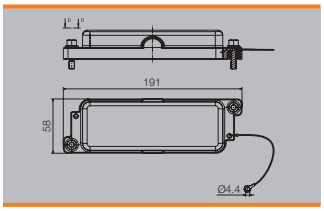

#### Counter-frame

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| | 17 | HDC IP68 24B FRAME M6 | **1110920000** |




#### Cover

| Version | Type | Order No. |
|---|---|---|
| | HDC IP68 24B COVER | **1083090000** |



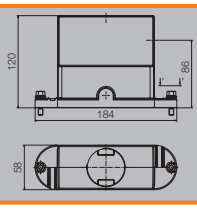
## Screw interlock

## Size 8, XXL

### Hood

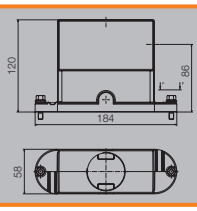
**Plug housing, cable entry sideways**

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 120 | HDC HB 24 TEK TSS1XM40G | **1000920001** |
| w. threading | 120 | HDC HB 24 TEK TSS1xM50G | **1827160000** |




**Plug housing, cable entry at top**

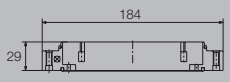
| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| w. threading | 120 | HDC HB 24 TEK TOS1xM50G | **1827170000** |




### Base

**Bulkhead housing**

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| | 29 | HDC HB 24 TEK AS M4 | **1827470000** |




F

# RockStar® Wall mounting housing IP66


**RockStar® Wall mounting housing IP66**

**Introduction** G.2

**RockStar® Wall mounting housing IP66** G.4
Size 3, 4, 6 and 8

# RockStar® Wall mounting housing IP66

Our RockStar® wall mounting housings made of polyamide are used wherever the focus is on weight, robustness and cost-effectiveness. We satisfy these requirements with a light plastic housing with an attached cable gland and screw interlock made of stainless steel. This housing can be connected directly on the panel wall thanks to simple attachment flanges. There is no need for a usual attachment housing.

RockStar® wall mounting housings are available in four sizes and can be combined with all fixed-pole and modular HDC inserts.

Areas of application for our RockStar® wall mounting housings include machinery and plant engineering, the automotive industry, panel building and wind power plants.

**Flexible**
The housing can be combined with all fixed-pole and modular HDC -RockStar® inserts

**Practical**
More cost effective thanks to the attached cable gland

**Simple**
The flange-mounted housing seals directly onto the panel wall without an attachment housing

# RockStar® Wall mounting housing IP66

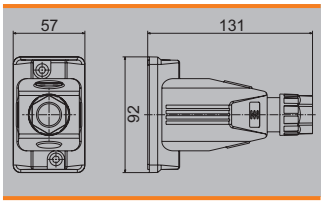
## Wall mounting housing

## Size 3

## Hood

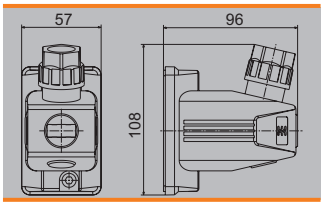
### Cable entry at top

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| | | HDC 06B TOS 1M25 WMP | 2716700000 |



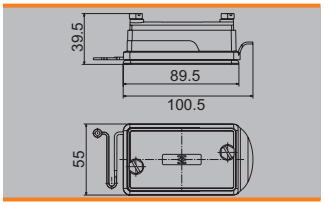

### Cable entry sideways

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| | | HDC 06B TSS 1M25 WMP | 2716750000 |



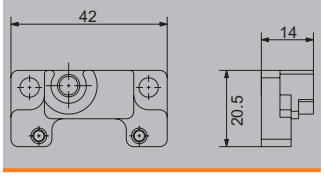

### Cover

| Version | Type | Order No. |
|---|---|---|
| | HDC 06B AF WM COVER | 2716810000 |



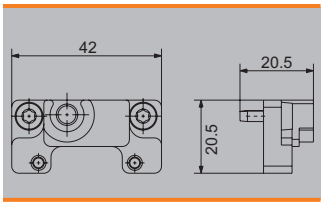

### Mounting flange

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| | | HDC AF WM | 2716790000 |




### Mounting flange set with screw

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| | | HDC AF SET WM | 2716800000 |



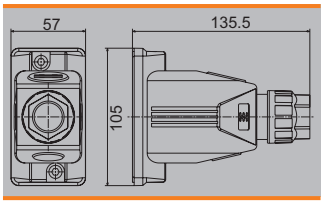
## Wall mounting housing

## Size 4

## Hood

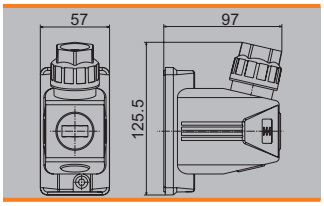
### Cable entry at top

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| | | HDC 10B TOS 1M32 WMP | 2716720000 |



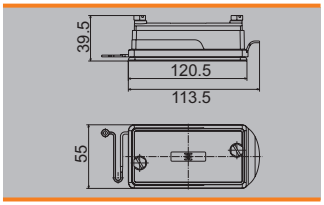

### Cable entry sideways

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| | | HDC 10B TSS 1M32 WMP | 2716760000 |



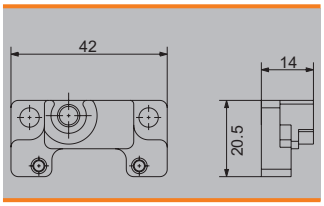

### Cover

| Version | Type | Order No. |
|---|---|---|
| | HDC 10B AF WM COVER | 2716820000 |



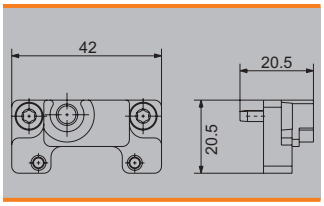

### Mounting flange

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| | | HDC AF WM | 2716790000 |




### Mounting flange set with screw

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| | | HDC AF SET WM | 2716800000 |



# RockStar® Wall mounting housing IP66

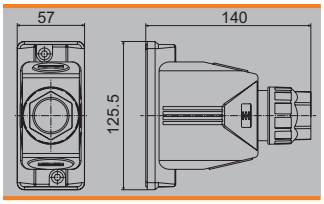
## Wall mounting housing

## Size 6

## Hood

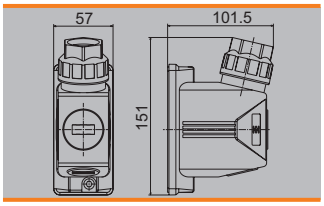
### Cable entry at top

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| | | HDC 16B TOS 1M40 WMP | 2716730000 |



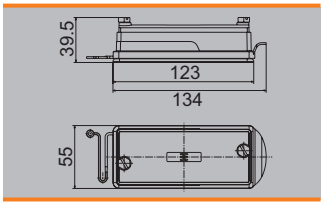

### Cable entry sideways

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| | | HDC 16B TSS 1M40 WMP | 2716770000 |



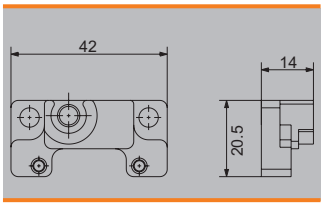

### Cover

| Version | Type | Order No. |
|---|---|---|
| | HDC 16B AF WM COVER | 2716830000 |



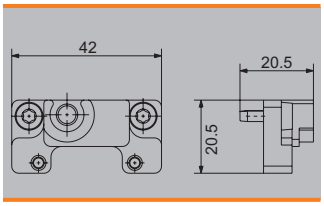

### Mounting flange

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| | | HDC AF WM | 2716790000 |




### Mounting flange set with screw

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| | | HDC AF SET WM | 2716800000 |



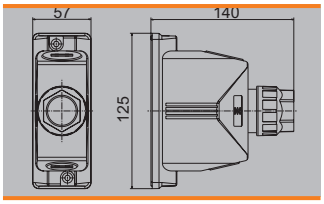
## Wall mounting housing

## Size 8

## Hood

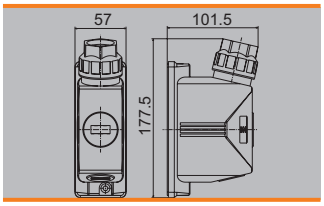
### Cable entry at top

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| | | HDC 24B TOS 1M40 WMP | 2716740000 |



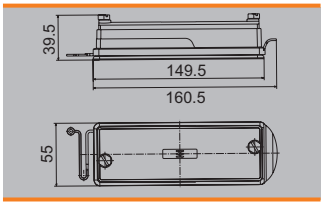

### Cable entry sideways

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| | | HDC 24B TSS 1M40 WMP | 2716780000 |



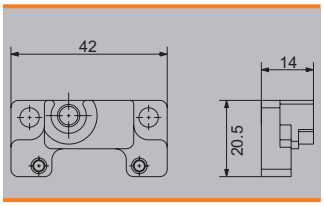

### Cover

| Version | Type | Order No. |
|---|---|---|
| | HDC 24B AF WM COVER | 2716840000 |



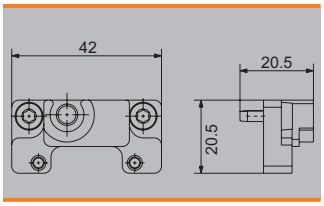

### Mounting flange

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| | | HDC AF WM | 2716790000 |




### Mounting flange set with screw

| Version | b (mm) | Type | Order No. |
|---|---|---|---|
| | | HDC AF SET WM | 2716800000 |




G

# RockStar® HighPower


**RockStar® HighPower**

**Introduction** H.2

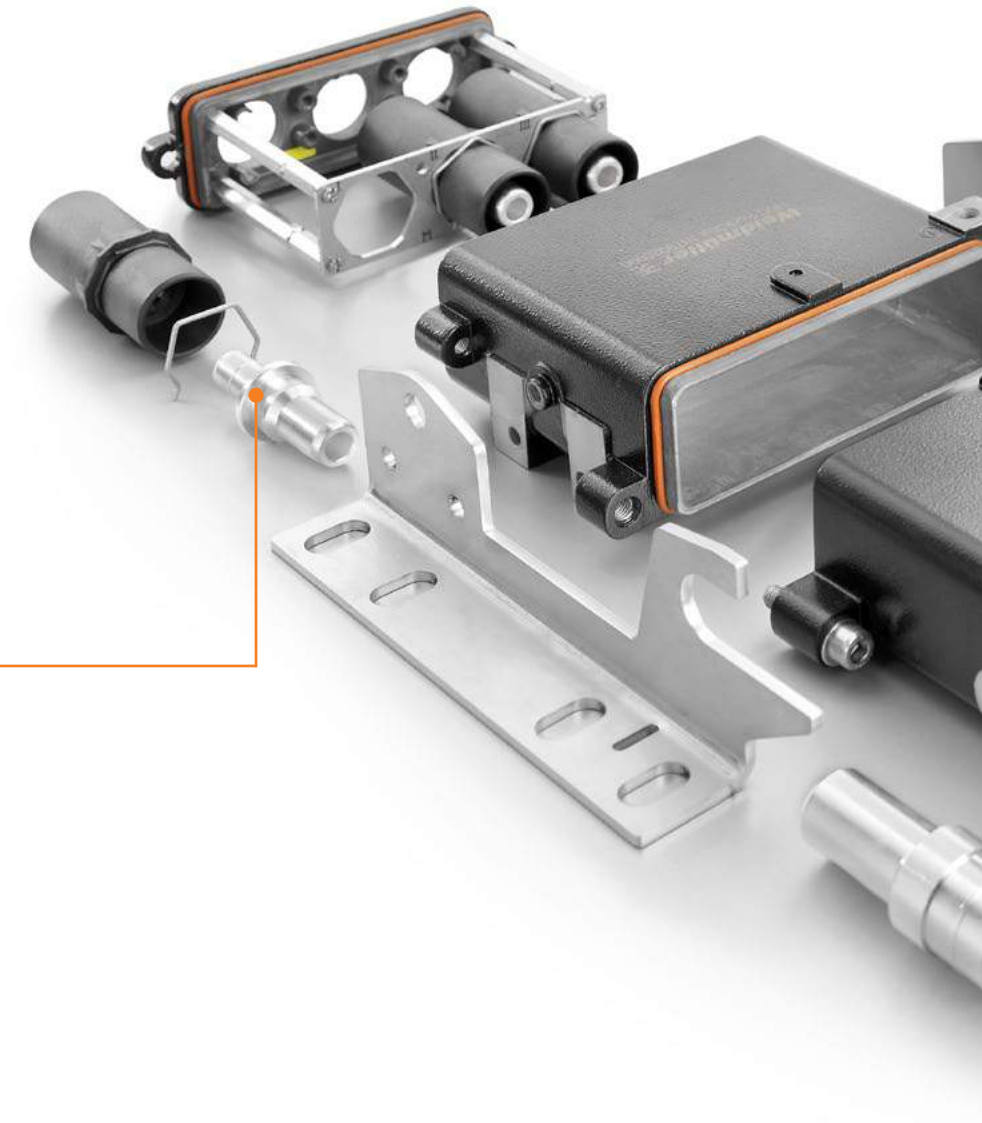
**RockStar® HighPower 250 A** H.4
4,000 V
250 A
1 – 4 poles

**RockStar® HighPower 550 A** H.10
4,000 V
550 A
1 – 3 poles

# RockStar® HighPower

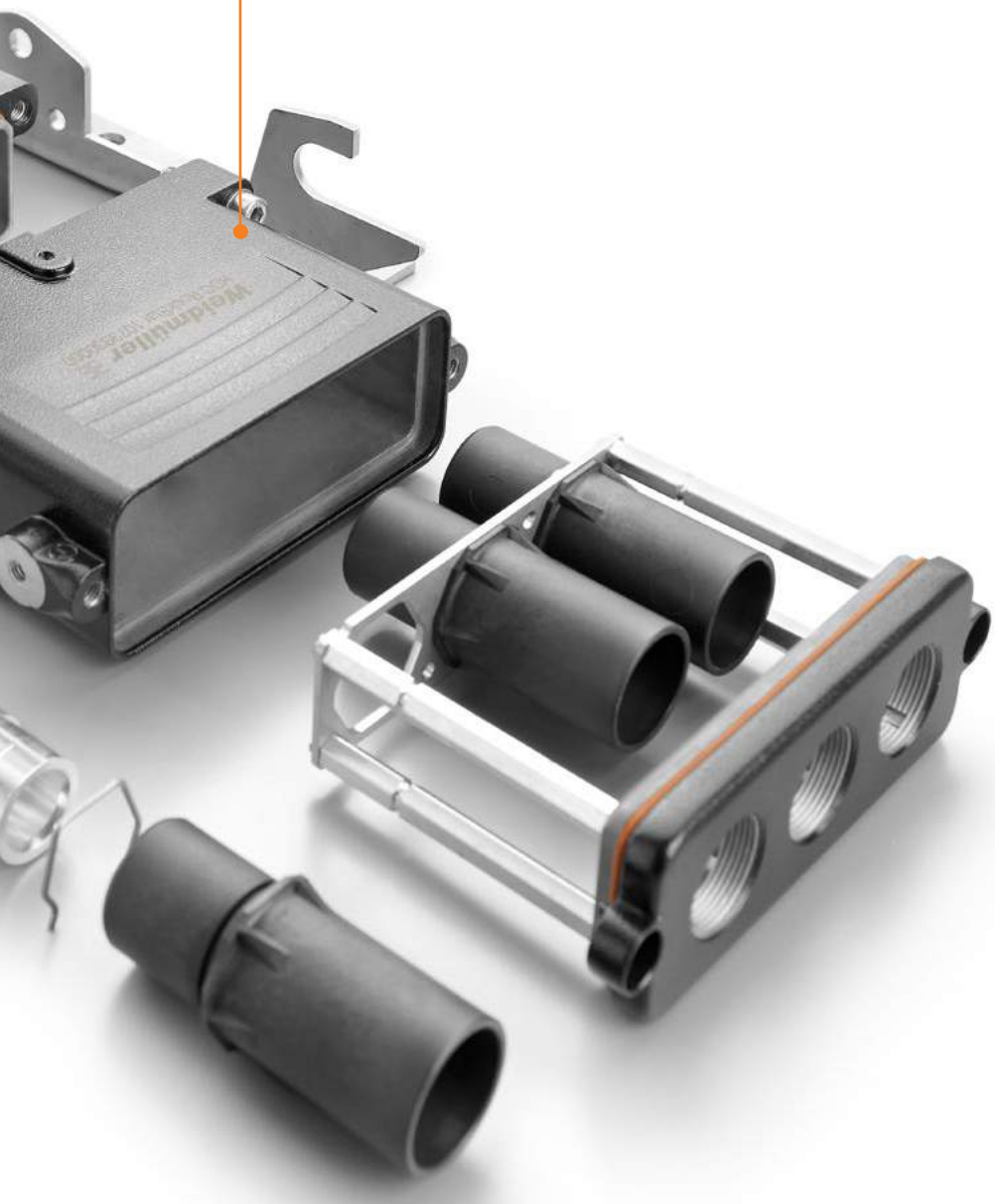
Uncompromising power – in clever and safe packaging. The RockStar® HighPower modular high-current connector system has been custom designed for the high demands of traffic engineering applications. The system also meets the requirements of the wind power industry. The modular set-up consists of one-piece crimp contacts, insulating sleeves, insert-holder frames and a robust multi-part die-cast aluminium enclosure in IP68, as well as cross-connection options.

This modular design offers clear advantages for handling: It is possible to wire crimped lines with large cross-sections and to see this process through to the final step. The wiring can be achieved using standard cable glands.



**Safe**
Tried-and-tested, low-maintenance crimp-connection technology with stranded, finely stranded and very finely stranded flexible copper conductors measuring up to 240 mm² with standardised tools

**Practical and universal**
A multitude of potential applications have been made pluggable for the first time ever – simply by integrating cross-connections.



**Perfectly optimised shielding**
Along with the 360° contact, the shielding connection integrated in the enclosure is the cutting edge of what is technically feasible at present.

# HighPower 250 A

RockStar® HighPower is designed to meet the strict standards set by DIN EN 61373 Cat. 2 (pivot mounting). The coordinated connector components provide you with a fail-safe and maintenance-free power transmission solution: in this case up to 250 A / 4,000 V.

## Technical data

| | |
|---|---|
| **HighPower 250 A series** | |
| Standards | DIN EN 50124-1<br>In compliance with DIN EN 61984<br>DIN EN 50155<br>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<br>(highest permitted operating voltage) | |
| AC wire – wire | 4,000 V (4,800 V)* |
| AC wire – earthed housing | 2,300 V (3,000 V)* |
| DC wire – wire | 4,000 V (4,800 V)* |
| DC wire – earthed housing | 2,300 V (3,000 V)* |
| Rated impulse voltage | |
| Wire – wire | 25 kV |
| Wire – earthed housing | 15 kV |
| Surge voltage category | OV 3 |
| Pollution severity degree | PD 2 (PD 3)*1 |
| Material | |
| Insulating body | PA 66 glass-fibre reinforced |
| Contact | Copper alloy, silver plated |
| Flammability | |
| According to UL 94 | V-0 |
| According to NFF 16-101 / NFF 16-102 | I3 F2 |
| DIN 5510 Part 2 | V-0 |
| Insulation resistance | $10^{10}$ Ω |
| Temperature range | –50 °C to +120 °C |
| **HDC IP68 HP 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 to +120 °C |
| Material | |
| Housing | Die-cast aluminium alloy, corrosion resistant |
| Mounting bracket | Stainless steel, rust-proof |
| **Accessories** | |
| Material | |
| Assembly frame | Stainless steel, rust-proof |
| Shield clamp | Sheet steel, galvanized |
| Touch-safe protection | PA66 |
| Colour | |
| Assembly frame | Natural |
| Shield clamp | Natural |
| Touch-safe protection | Red |
| **Cable gland** | |
| Material | |
| Cable gland | Optional as nickel-plated brass or stainless steel |
| Seal insert | TPE |
| Temperature range | –40 °C to +130 °C |
| Class of protection | IP68 |

**Note**:
*4,800 V, depending on the application
*1 The contacts are protected against contamination and condensation within the HDC housing.
The completely assembled connector can be used at pollution degree PD 3.

## Overview

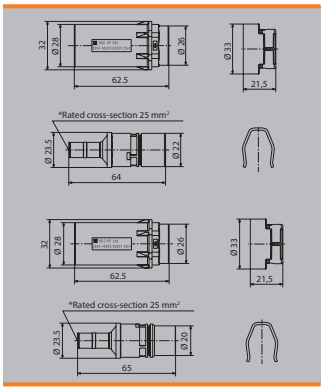
| | Size | Rated voltage | Rated current | No. of poles | Tension clamp connection | TOP connection | Screw conn. with wire guard spring | Crimp connection | PUSH IN connection | Page |
|---|---|---|---|---|---|---|---|---|---|---|
| | 8 | 4,000 V | 250 A | 1 – 4 | | | | • | | H.6 |

RockStar® HighPower 250 A

## Crimp contacts

### Crimp contact

| Conductor cross-section | Pin Type | Order No. | Female Type | Order No. |
|---|---|---|---|---|
| 25 mm² | HDC HP 250 M 25 | **1079690000** | HDC HP 250 F 25 | **1079720000** |
| 35 mm² | HDC HP 250 M 35 | **1079680000** | HDC HP 250 F 35 | **1079730000** |
| 50 mm² | HDC HP 250 M 50 | **1119080000** | HDC HP 250 F 50 | **1079740000** |
| 70 mm² | HDC HP 250 M 70 | **1119090000** | HDC HP 250 F 70 | **1079750000** |
| 95 mm² | HDC HP 250 M 95 | **1119100000** | HDC HP 250 F 95 | **1079770000** |
| **Insulated PE contact** | | | | |
| 50 mm² | HDC HP 250 M 50 PE | **1220850000** | HDC HP 250 F 50 PE | **1220840000** |

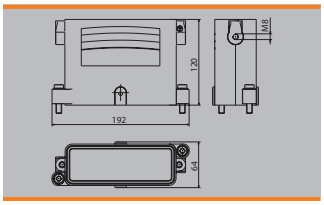



**Note** In the version described here, the crimp contacts can be used for crimp connections with flexible, stranded, and finely stranded copper wires (according to DIN 48201 part 1 and DIN 57 295 VDE 0295) or with crimping inserts (according to DIN 48083 part 1, part 3 and part 4). We would be glad to customise the crimp contact to fit your requirements.

## Housing

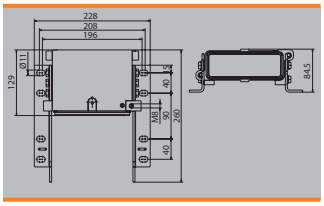
### Plug housing

| Deployment | Type | Order No. |
|---|---|---|
| Plug | HDC IP68 HP 24B TO | **1079930000** |



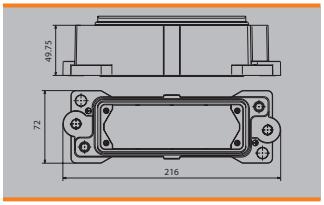
### Base housing

| Deployment | Type | Order No. |
|---|---|---|
| Base housing | HDC IP68 HP 24B AS S | **1079920000** |



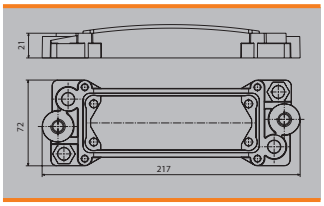
### Bulkhead housing

| Deployment | Type | Order No. |
|---|---|---|
| Bulkhead (feed-through) | HDC IP68 HP 24B A | **1120040000** |



### Counter-frame

| Deployment | Type | Order No. |
|---|---|---|
| Counter-frame | HDC IP68 24B HP FRAME | **1282820000** |



### Cover for base

| Deployment | Type | Order No. |
|---|---|---|
| | HDC IP68 24B COVER CS | **1324500000** |

# RockStar® HighPower 250 A

## Housing

### Mounting cover

| Deployment | Cable entry | Number | Size | Type | Order No. |
|---|---|---|---|---|---|
| Cover | | | | HDC IP68 24B MD | 1119950000 |
| Cover | w. threading | 3 | M 40 | HDC IP68 24B MD 3M40 | 1119970000 |
| Cover | w. threading | 3 | M 32 | HDC IP68 24B MD 3M32 | 1119980000 |
| Cover | w. threading | 3 | M 25 | HDC IP68 24B MD 3M25 | 1079910000 |
| Cover | w. threading | 2 | M 40 | HDC IP68 24B MD 2M40 | 1119990000 |
| Cover | w. threading | 2 | M 32 | HDC IP68 24B MD 2M32 | 1120000000 |
| Cover | w. threading | 4 | M 25 | HDC IP68 24B MD 4M25 T1 | 1160450000 |
| Cover | w. threading | 2 | M 25 | HDC IP68 24B MD 2M25 | 1120010000 |
| Cover | w. threading | 4 | M 25 | HDC IP68 24B MD 4M25 T2 | 1220860000 |
| Cover | w. threading | 1 | M 50 | HDC IP68 HP 24B 1M50 | 2451460000 |
| Cover | w. threading | 1 | M 63 | HDC IP68 HP 24B 1M63 | 2473940000 |

**Note** Because of the asymmetric arrangement of the four threaded holes, the T1 version must be used on one side and the T2 version must be used on the other side.

## Accessories

### Mounting frame

| Size | Number of poles | Type | Order No. |
|---|---|---|---|
| 3 | 1 | HDC 06B HP250 MPL1 | 1103680000 |
| 8 | 2 | HDC 24B HP250 MPL2 TYP1 | 1103690000 |
| 8 | 2 | HDC 24B HP250 MPL2 TYP2 | 1103740000 |
| 8 | 3 | HDC 24B HP250 MPL3 TYP1 | 1079640000 |
| 8 | 3 | HDC 24B HP250 MPL3 TYP2 | 1103750000 |
| 8 | 4 | HDC 24B HP250 MPL4 TYP1 | 1160430000 |
| 8 | 4 | HDC 24B HP250 MPL4 TYP2 | 1160440000 |
| 8 | 4 | HDC 24B HP250 MPL4PE T1 | 1212890000 |
| 8 | 4 | HDC 24B HP250 MPL4PE T2 | 1212910000 |

**Note** TYP1 = Female, TYP 2 = Male

### Mounting frame set

| Size | Number of poles | Type | Order No. |
|---|---|---|---|
| 8 | 3 | HDC HP 250 SSF BO SET | 2008220000 |
| 8 | 3 | HDC HP 250 SSM BO SET | 2008210000 |

**Note** Low resistance current transmission

### EMC shield connection

| Deployment | Type | Order No. |
|---|---|---|
| | VGM25-MS68 EMC 11-20SET | 1463720000 |
| | VGM32-MS68 EMC 15-25SET | 1463730000 |
| | VGM40-MS68 EMC 20-32SET | 2457660000 |
| | VGM40L-MS68EMC 20-32SET | 2498320000 |

### Mounting tool

| Deployment | Type | Order No. |
|---|---|---|
| | HDC FBS TOOL 13-50 | 8000015137 |

**Note** Spring band clamp installation tool for HighPower shield connections

### Touch-safe protection set

| Deployment | Type | Order No. |
|---|---|---|
| | HDC HP 250 SHOCKPROTEC | 1120130000 |

**Note** For use with HighPower 250 A female contacts

RockStar® HighPower 250 A



## Accessories

### Signal contact carrier

| Deployment | Type | Order No. |
|---|---|---|
| Pin | HDC HP 250 M CM3 | 1415410000 |
| Female | HDC HP 250 F CM3 | 1415420000 |

**Note** The CM3 crimp contacts have to be ordered separately.

### Cable glands

| Thread | Material | Cable diameter | Type | Order No. |
|---|---|---|---|---|
| M 25 | Stainless steel 1.4305 (303) | 11...20 mm | VGM25-SS68 11-20 BG | 1193570000 |
| M 32 | Stainless steel 1.4305 (303) | 15...25 mm | VGM32-SS68 15-25 BG | 1193580000 |
| M 40 | Stainless steel 1.4305 (303) | 20...32 mm | VGM40-SS68 20-32 BG | 1193590000 |
| M 25 | Brass, nickel-plated | 11...20 mm | VGM25-MS68 11-20 BG | 1193600000 |
| M 32 | Brass, nickel-plated | 15...25 mm | VGM32-MS68 15-25 BG | 1193610000 |
| M 40 | Brass, nickel-plated | 20...32 mm | VGM40-MS68 20-32 BG | 1193620000 |

### Cable glands, elongated version

| Thread | Material | Cable diameter | Type | Order No. |
|---|---|---|---|---|
| M 40 | Stainless steel 1.4305 (303) | 20...32 mm | VGM40/1-SS68 20-32 BG | 1205920000 |
| M 40 | Brass, nickel-plated | 20...32 mm | VGM40/1-MS68 20-32 BG | 1205890000 |

## Crimping tools

### EPG 45 hydraulic battery crimping tool

| | Type | Order No. |
|---|---|---|
| | EPG 45 | 1500830000 |

### Hexagonal crimp inserts for EPG 45

| Code no. | CU mm² | Crimping width | Type | Order No. |
|---|---|---|---|---|
| 5 | 6 | 7 | ES EPG 45 HEX 6 | 1500930000 |
| 6/16 | 10/70 | 7/5 | ES EPG 45 HEX 10/70 | 1500940000 |
| 8/12 | 16/35 | 12/5 | ES EPG 45 HEX 16/35 | 1500950000 |
| 10/14 | 25/50 | 12/5 | ES EPG 45 HEX 25/50 | 1500970000 |
| 18 | 95 | 5 | ES EPG 45 HEX 95 | 1500980000 |
| 20 | 120 | 5 | ES EPG 45 HEX 120 | 1500990000 |
| 22 | 150 | 5 | ES EPG 45 HEX 150 | 1994540000 |

## RockStar® HighPower 250 A

### Crimping tools

**APG 80 hydraulic battery crimping tool**

| | Type | Order No. |
|---|---|---|
| | APG 80 | 1502390000 |

**Hexagonal crimp inserts for APG 80**

| Code no. | CU mm² | Crimping width | Type | Order No. |
|---|---|---|---|---|
| 5 | 6 | 7 | ES APG 80 HEX 6 | 1502600000 |
| 6 | 10 | 7 | ES APG 80 HEX 10 | 1502620000 |
| 8 | 16 | 12 | ES APG 80 HEX 16 | 1502630000 |
| 10 | 25 | 12 | ES APG 80 HEX 25 | 1502640000 |
| 12 | 35 | 12 | ES APG 80 HEX 35 | 1502650000 |
| 14 | 50 | 12 | ES APG 80 HEX 50 | 1502670000 |
| 16 | 70 | 12 | ES APG 80 HEX 70 | 1502680000 |
| 18 | 95 | 10 | ES APG 80 HEX 95 | 1502690000 |
| 20 | 120 | 10 | ES APG 80 HEX 120 | 1502700000 |
| 22 | 150 | 5 | ES APG 80 HEX 150 | 1502720000 |
| 25 | 185 | 5 | ES APG 80 HEX 185 | 1502730000 |
| 28 | 240 | 5 | ES APG 80 HEX 240 | 1502740000 |
| 32 | 300 | 7 | ES APG 80 HEX 300 | 1502750000 |

# HighPower 550 A

RockStar® HighPower is designed to meet the strict standards set by DIN EN 61373 Cat. 2 (pivot mounting). The coordinated connector components provide you with a fail-safe and maintenance-free power transmission solution: in this case up to 550 A / 4,000 V.

## Technical data

| | |
|---|---|
| **HighPower 550 A sereis** | |
| Standards | DIN EN 50124-1 |
| | In compliance with DIN EN 61984 |
| | DIN EN 50155 |
| | DIN EN 61373 KAT 2 (Pivot mounting) |
| Number of contacts | 1-, 2-, 3 poles |
| Wire connection method | Crimp |
| Rated current | 550 A |
| Rated insulation voltage | |
| (highest permitted operating voltage) | |
| AC wire – wire | 4,000 V (4,800 V)* |
| AC wire – earthed housing | 3,000 V |
| DC wire – wire | 4,000 V (4,800 V)* |
| DC wire – earthed housing | 3,000 V |
| Rated impulse voltage | |
| Wire – wire | 25 kV |
| Wire – earthed housing | 15 kV |
| Surge voltage category | OV 3 |
| Pollution severity degree | PD 2 (PD 3)*1 |
| Material | |
| Insulating body | PA 66 glass-fibre reinforced |
| Contact | Copper alloy, silver plated |
| Flammability | |
| According to UL 94 | V-0 |
| According to NFF 16-101 / NFF 16-102 | I3 F2 |
| DIN 5510 Part 2 | V-0 |
| Insulation resistance | $10^{10}$ Ω |
| Temperature range | –50 °C to +120 °C |
| **HDC IP68 HP 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 to +120 °C |
| Material | |
| Housing | Die-cast aluminium alloy, corrosion resistant |
| Mounting bracket | Stainless steel, rust-proof |
| **Accessories** | |
| Material | |
| Assembly frame | Stainless steel, rust-proof |
| Shield clamp | Sheet steel, galvanized |
| Touch-safe protection | PA66 |
| Colour | |
| Assembly frame | Natural |
| Shield clamp | Natural |
| Touch-safe protection | Orange |
| **Cable gland** | |
| Material | |
| Cable gland | Optional as nickel-plated brass or stainless steel |
| Seal insert | TPE |
| Temperature range | –40 ºC to +130 °C |
| Class of protection | IP68 |

**Note**:
*4,800 V, depending on the application
*1 The contacts are protected against contamination and condensation within the HDC housing.
The completely assembled connector can be used at pollution degree PD 3.

## Overview

| | Size | Rated voltage | Rated current | No. of poles | Tension clamp connection | TOP connection | Screw conn. with wire guard spring | Crimp connection | PUSH IN connection | Page |
|---|---|---|---|---|---|---|---|---|---|---|
| | 8 | 4,000 V | 550 A | 1 – 3 | | | | • | | H.12 |

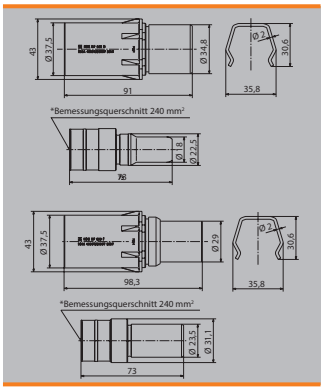
RockStar® HighPower 550 A



## Crimp contacts

### Crimp contact

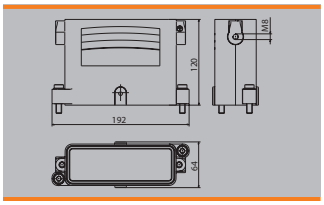
| Conductor cross-section | Pin Type | Order No. | Female Type | Order No. |
|---|---|---|---|---|
| 25 mm² | HDC HP 550 M 25 | 1220580000 | HDC HP 550 F 25 | 1220570000 |
| 50 mm² | HDC HP 550 M 50 | 1157800000 | HDC HP 550 F 50 | 1177100000 |
| 70 mm² | HDC HP 550 M 70 | 1268810000 | HDC HP 550 F 70 | 1268820000 |
| 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 |




## Housing

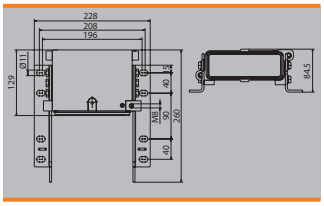
### Plug housing

| Deployment | Type | Order No. |
|---|---|---|
| Plug | HDC IP68 HP 24B TO | 1079930000 |



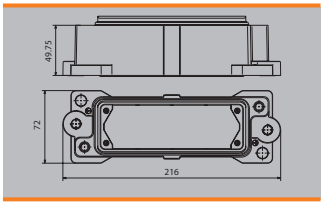
### Base housing

| Deployment | Type | Order No. |
|---|---|---|
| Base housing | HDC IP68 HP 24B AS S | 1079920000 |



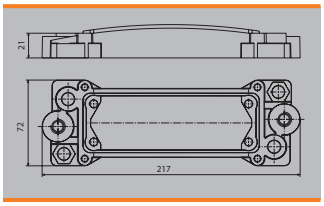
### Bulkhead housing

| Deployment | Type | Order No. |
|---|---|---|
| Bulkhead (feed-through) | HDC IP68 HP 24B A | 1120040000 |



### Counter-frame

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



### Cover for base

| Deployment | Type | Order No. |
|---|---|---|
| | HDC IP68 24B COVER CS | 1324500000 |

## RockStar® HighPower 550 A

### Housing

#### Mounting cover

| Deployment | Cable entry | Number | Size | Type | Order No. |
|---|---|---|---|---|---|
| Cover | | | | HDC IP68 24B MD | 1119950000 |
| Cover | w. threading | 3 | M 40 | HDC IP68 24B MD 3M40 | 1119970000 |
| Cover | w. threading | 3 | M 32 | HDC IP68 24B MD 3M32 | 1119980000 |
| Cover | w. threading | 3 | M 25 | HDC IP68 24B MD 3M25 | 1079910000 |
| Cover | w. threading | 2 | M 40 | HDC IP68 24B MD 2M40 | 1119990000 |
| Cover | w. threading | 2 | M 32 | HDC IP68 24B MD 2M32 | 1120000000 |
| Cover | w. threading | 2 | M 25 | HDC IP68 24B MD 2M25 | 1120010000 |
| Cover | w. threading | 1 | M 50 | HDC IP68 HP 24B 1M50 | 2451460000 |
| Cover | w. threading | 1 | M 63 | HDC IP68 HP 24B 1M63 | 2473940000 |

**Hinweis**

### Accessories

#### Mounting frame

| Size | Number of poles | Type | Order No. |
|---|---|---|---|
| 8 | 2 | HDC 24B HP550 MPL2 TYP1 | 1103710000 |
| 8 | 2 | HDC 24B HP550 MPL2 TYP2 | 1103770000 |
| 8 | 3 | HDC 24B HP550 MPL3 TYP1 | 1103720000 |
| 8 | 3 | HDC 24B HP550 MPL3 TYP2 | 1103780000 |

**Note** TYP1 = Female, TYP2 = Male

#### Mounting frame set

| Size | Number of poles | Type | Order No. |
|---|---|---|---|
| 8 | 3 | HDC HP 550 SSM SET | 1987920000 |
| 8 | 3 | HDC HP 550 SSF SET | 1987950000 |

**Note** Low resistance screen transmission

#### EMC shield connection

| Deployment | Type | Order No. |
|---|---|---|
| | VGM25-MS68 EMC 11-20SET | 1463720000 |
| | VGM32-MS68 EMC 15-25SET | 1463730000 |
| | VGM40-MS68 EMC 20-32SET | 2457660000 |
| | VGM40L-MS68EMC 20-32SET | 2498320000 |

#### Mounting tool

| Deployment | Type | Order No. |
|---|---|---|
| | HDC FBS TOOL 13-50 | 8000015137 |

**Note** Spring band clamp installation tool for HighPower shield connections

#### Touch-safe protection set

| Deployment | Type | Order No. |
|---|---|---|
| | HDC HP 550 SHOCKPROTEC | 1120140000 |

**Note** For use with HighPower 550 A female contacts

RockStar® HighPower 550 A



## Accessories

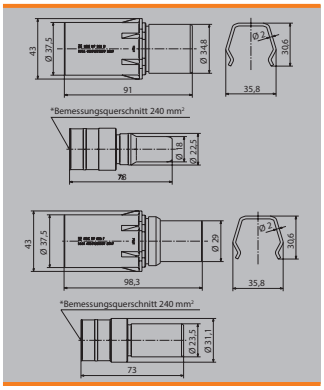
### Coding pin

| Deployment | Type | Order No. |
|---|---|---|
| | HDC HP CODING SYSTEM | 1160780000 |

## Crimp contacts

### Crimp contact

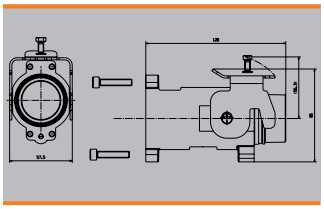
| Conductor cross-section | Pin Type | Order No. | Female Type | Order No. |
|---|---|---|---|---|
| 25 mm² | HDC HP 550 M 25 | 1220580000 | HDC HP 550 F 25 | 1220570000 |
| 50 mm² | HDC HP 550 M 50 | 1157800000 | HDC HP 550 F 50 | 1177100000 |
| 70 mm² | HDC HP 550 M 70 | 1268810000 | HDC HP 550 F 70 | 1268820000 |
| 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 |




## Housing

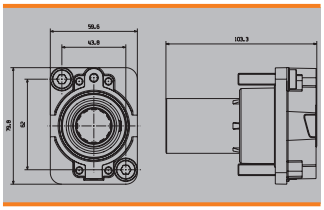
### Plug housing

| Deployment | Type | Order No. |
|---|---|---|
| | HDC HP550 STGH CR 1P | 2568600000 |



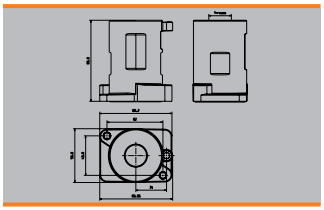
### Bulkhead housing

| Deployment | Type | Order No. |
|---|---|---|
| | HDC HP550 ABGH CR 1P | 2568530000 |



### Backpanel

| Deployment | Type | Order No. |
|---|---|---|
| | HDC HP550 ABGR CR 1P M20 | 2599940000 |
| | HDC HP550 ABGR CR 1P M25 | 2599930000 |
| | HDC HP550 ABGR CR 1P M32 | 2599920000 |
| | HDC HP550 ABGR CR 1P M40 | 2599910000 |
| | HDC HP550 ABGR CR 1P PG36 | 2568560000 |

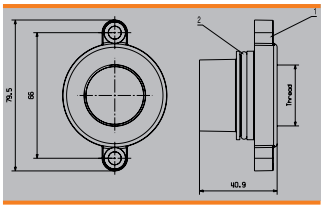


# RockStar® HighPower 550 A

## Housing

### Threaded cover / cable inlet adapter

| Deployment | Cable entry | Number | Size | Type | Order No. |
|---|---|---|---|---|---|
| | | | | HDC HP550 GHDE CR 1P M20 | 2599840000 |
| | | | | HDC HP550 GHDE CR 1P M25 | 2599810000 |
| | | | | HDC HP550 GHDE CR 1P M32 | 2599790000 |
| | | | | HDC HP550 GHDE CR 1P M40 | 2599770000 |
| | | | | HDC HP550 GHDE CR 1P PG36 | 2568630000 |



### Touch-safe protection set

| Deployment | Type | Order No. |
|---|---|---|
| | HDC HP 550 SHOCKPROTEC | 1120140000 |

| Note | For use with HighPower 550 A female contacts |
|---|---|

H

RockStar® HighPower 550 A



## Accessories

### Cable gland

| Thread | Material | Cable diameter | Type | Order No. |
|---|---|---|---|---|
| M 25 | Stainless steel 1.4305 (303) | 11...20 mm | VGM25-SS68 11-20 BG | 1193570000 |
| M 32 | Stainless steel 1.4305 (303) | 15...25 mm | VGM32-SS68 15-25 BG | 1193580000 |
| M 40 | Stainless steel 1.4305 (303) | 20...32 mm | VGM40-SS68 20-32 BG | 1193590000 |
| M 25 | Brass, nickel-plated | 11...20 mm | VGM25-MS68 11-20 BG | 1193600000 |
| M 32 | Brass, nickel-plated | 15...25 mm | VGM32-MS68 15-25 BG | 1193610000 |
| M 40 | Brass, nickel-plated | 20...32 mm | VGM40-MS68 20-32 BG | 1193620000 |

## Crimping tools

### EPG 45 hydraulic battery crimping tool

| Type | Order No. |
|---|---|
| EPG 45 | 1500830000 |

### Hexagonal crimp inserts for EPG 45

| Code no. | CU mm² | Crimping width | Type | Order No. |
|---|---|---|---|---|
| 5 | 6 | 7 | ES EPG 45 HEX 6 | 1500930000 |
| 6/16 | 10/70 | 7/5 | ES EPG 45 HEX 10/70 | 1500940000 |
| 8/12 | 16/35 | 12/5 | ES EPG 45 HEX 16/35 | 1500950000 |
| 10/14 | 25/50 | 12/5 | ES EPG 45 HEX 25/50 | 1500970000 |
| 18 | 95 | 5 | ES EPG 45 HEX 95 | 1500980000 |
| 20 | 120 | 5 | ES EPG 45 HEX 120 | 1500990000 |
| 22 | 150 | 5 | ES EPG 45 HEX 150 | 1994540000 |

### APG 80 hydraulic battery crimping tool

| Type | Order No. |
|---|---|
| APG 80 | 1502390000 |

### Hexagonal crimp inserts for APG 80

| Code no. | CU mm² | Crimping width | Type | Order No. |
|---|---|---|---|---|
| 5 | 6 | 7 | ES APG 80 HEX 6 | 1502600000 |
| 6 | 10 | 7 | ES APG 80 HEX 10 | 1502620000 |
| 8 | 16 | 12 | ES APG 80 HEX 16 | 1502630000 |
| 10 | 25 | 12 | ES APG 80 HEX 25 | 1502640000 |
| 12 | 35 | 12 | ES APG 80 HEX 35 | 1502650000 |
| 14 | 50 | 12 | ES APG 80 HEX 50 | 1502670000 |
| 16 | 70 | 12 | ES APG 80 HEX 70 | 1502680000 |
| 18 | 95 | 10 | ES APG 80 HEX 95 | 1502690000 |
| 20 | 120 | 10 | ES APG 80 HEX 120 | 1502700000 |
| 22 | 150 | 5 | ES APG 80 HEX 150 | 1502720000 |
| 25 | 185 | 5 | ES APG 80 HEX 185 | 1502730000 |
| 28 | 240 | 5 | ES APG 80 HEX 240 | 1502740000 |
| 32 | 300 | 7 | ES APG 80 HEX 300 | 1502750000 |

# RockStar® Kits


**RockStar® Kits**

**Introduction** I.2

**RockStar® Kits with HA inserts** I.4
400 V
16 A
3 – 4 poles

**RockStar® Kits with HE inserts** I.8
500 V
16 A
6 – 48 poles

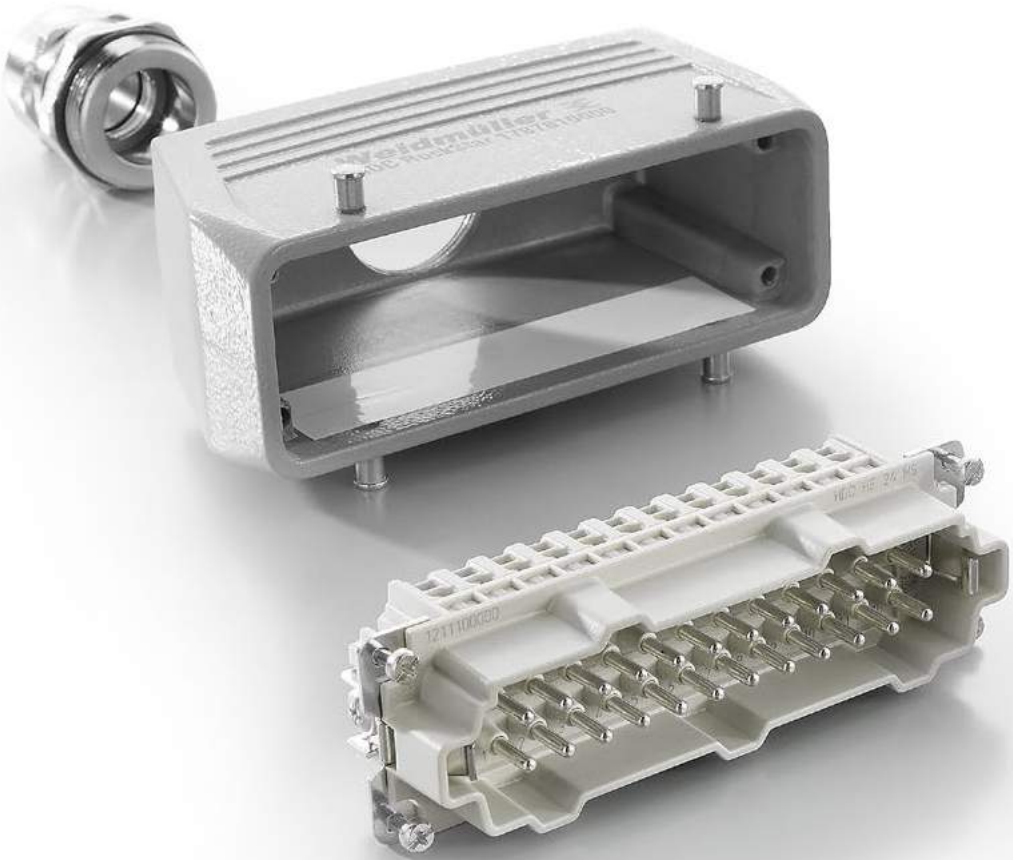
**RockStar® Kits with HSB inserts** I.28
400 V
35 A
6 poles

# 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:**

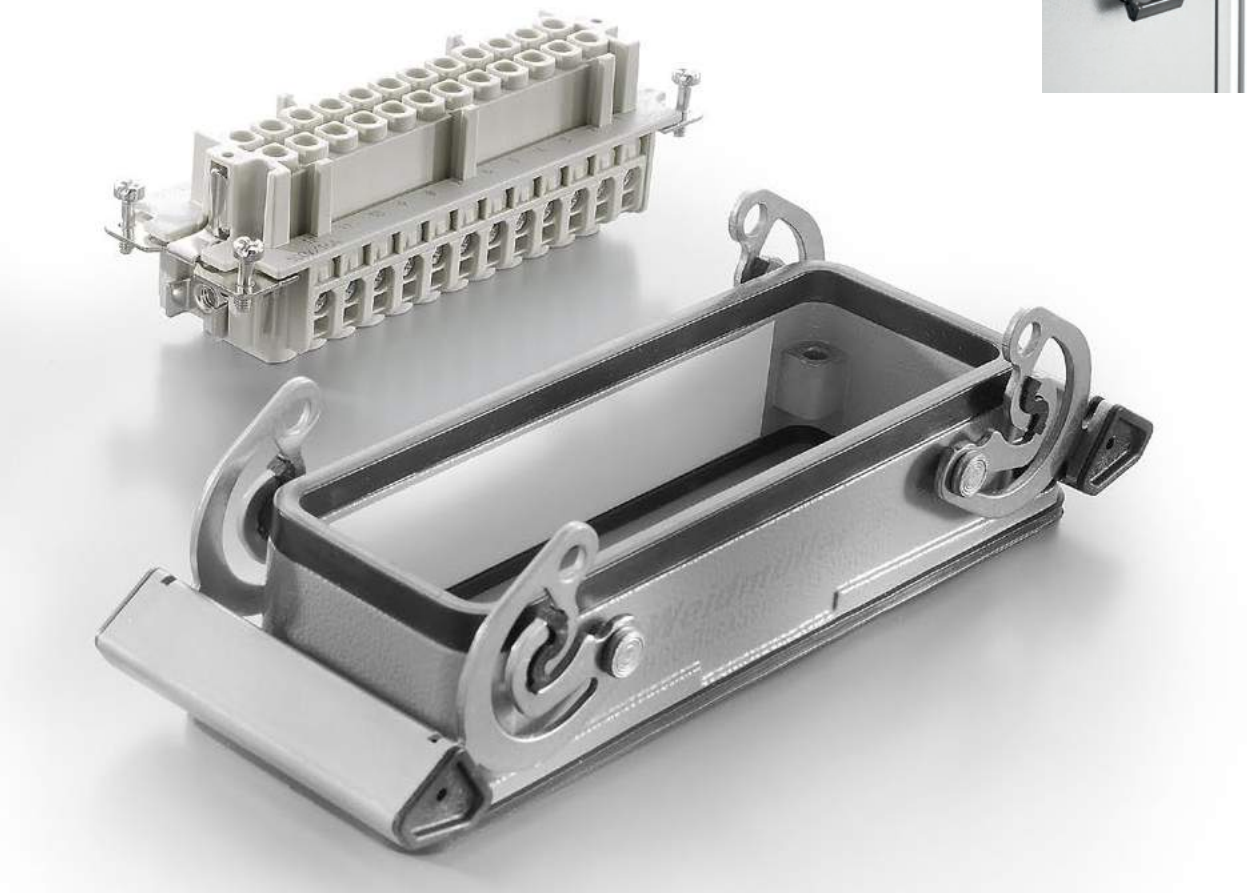
- Easy to purchase – only one ordered part for all items
- Easy to use – just one package with no individual parts
- Wide variety – we'll put together a customised kit for whichever components you need.



**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.



## 400 V, 16 A, Size 1

### Metric versions

| | Type | Order No. |
|---|---|---|
| | HDC-KIT-HA 03.300 M | 1802470000 |

| Part | Type | Order No. |
|---|---|---|
| Socket connector | HDC HA 3 FS | 1498200000 |
| Plug | HDC HA 3 MS | 1498100000 |
| Bulkhead (feed-through) | HDC 04A ALU | 1497600000 |
| Plug housing | 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. |
|---|---|---|
| Socket connector | HDC HA 3 FS | 1498200000 |
| Plug | HDC HA 3 MS | 1498100000 |
| Bulkhead (feed-through) | HDC 07A ALU | 1652410000 |
| Plug housing | 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. |
|---|---|---|
| Socket connector | HDC HA 3 FS | 1498200000 |
| Plug | HDC HA 3 MS | 1498100000 |
| Bulkhead (feed-through) | HDC 04A AWLU | 1497700000 |
| Plug housing | HDC 04A TOLU 1M20G | 1788820000 |
| Cable glands | VG M20 - MS 68 | 1772220000 |

Metal housing

## 400 V, 16 A, Size 1

### PG versions

| | Type | Order No. |
|---|---|---|
| | HDC-KIT-HA 03.300 | 1712560000 |

| Part | Type | Order No. |
|---|---|---|
| Socket connector | HDC HA 3 FS | 1498200000 |
| Plug | HDC HA 3 MS | 1498100000 |
| Bulkhead (feed-through) | HDC 04A ALU | 1497600000 |
| Plug housing | 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. |
|---|---|---|
| Socket connector | HDC HA 3 FS | 1498200000 |
| Plug | HDC HA 3 MS | 1498100000 |
| Bulkhead (feed-through) | HDC 07A ALU | 1652410000 |
| Plug housing | 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. |
|---|---|---|
| Socket connector | HDC HA 3 FS | 1498200000 |
| Plug | HDC HA 3 MS | 1498100000 |
| Bulkhead (feed-through) | HDC 04A AWLU | 1497700000 |
| Plug housing | 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. |
|---|---|---|
| Socket connector | HDC HA 3 FS | 1498200000 |
| Plug | HDC HA 3 MS | 1498100000 |
| Bulkhead (feed-through) | HDC 07A AWLU | 1652420000 |
| Plug housing | HDC 07A TOLU 1PG11G | 1652380000 |
| Cable glands | VG 11-K68 | 1568990000 |

Plastic housing

# RockStar® Kits with HA inserts, 4 pole

## 400 V, 16 A, Size 1

### Metric versions

| | Type | Order No. |
|---|---|---|
| | HDC-KIT-HA 04.400 M | 1802440000 |

| Part | Type | Order No. |
|---|---|---|
| Socket connector | HDC HA 4 FS | 1498400000 |
| Plug | HDC HA 4 MS | 1498300000 |
| Bulkhead (feed-through) | HDC 04A ALU | 1497600000 |
| Plug housing | 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. |
|---|---|---|
| Socket connector | HDC HA 4 FS | 1498400000 |
| Plug | HDC HA 4 MS | 1498300000 |
| Bulkhead (feed-through) | HDC 07A ALU | 1652410000 |
| Plug housing | 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. |
|---|---|---|
| Socket connector | HDC HA 4 FS | 1498400000 |
| Plug | HDC HA 4 MS | 1498300000 |
| Bulkhead (feed-through) | HDC 04A AWLU | 1497700000 |
| Plug housing | 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. |
|---|---|---|
| Socket connector | HDC HA 4 FS | 1498400000 |
| Plug | HDC HA 4 MS | 1498300000 |
| Bulkhead (feed-through) | HDC 07A AWLU | 1652420000 |
| Plug housing | HDC 07A TOLU 1M20G | 1788520000 |
| Cable glands | VG M20-1/K68 | 1772300000 |

Plastic housing

## 400 V, 16 A, Size 1

### PG versions

| | Type | Order No. |
|---|---|---|
| | HDC-KIT-HA 04.400 | 1712590000 |

| Part | Type | Order No. |
|---|---|---|
| Socket connector | HDC HA 4 FS | 1498400000 |
| Plug | HDC HA 4 MS | 1498300000 |
| Bulkhead (feed-through) | HDC 04A ALU | 1497600000 |
| Plug housing | 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. |
|---|---|---|
| Socket connector | HDC HA 4 FS | 1498400000 |
| Plug | HDC HA 4 MS | 1498300000 |
| Bulkhead (feed-through) | HDC 07A ALU | 1652410000 |
| Plug housing | 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. |
|---|---|---|
| Socket connector | HDC HA 4 FS | 1498400000 |
| Plug | HDC HA 4 MS | 1498300000 |
| Bulkhead (feed-through) | HDC 04A AWLU | 1497700000 |
| Plug housing | 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. |
|---|---|---|
| Socket connector | HDC HA 4 FS | 1498400000 |
| Plug | HDC HA 4 MS | 1498300000 |
| Bulkhead (feed-through) | HDC 07A AWLU | 1652420000 |
| Plug housing | HDC 07A TOLU 1PG11G | 1652380000 |
| Cable glands | VG 11-K68 | 1568990000 |

Plastic housing

## 500 V, 24 A, Size 3

### Metric versions

| | Type | Order No. |
|---|---|---|
| | HDC KIT HE 06.100 M | 1802730000 |

| Part | Type | Order No. |
|---|---|---|
| Socket connector | HDC HE 6 FS | 1200200000 |
| Plug | HDC HE 6 MS | 1200000000 |
| Bulkhead (feed-through) | HDC 06B ALU | 1202100000 |
| Plug housing | 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. |
|---|---|---|
| Socket connector | HDC HE 6 FS | 1200200000 |
| Plug | HDC HE 6 MS | 1200000000 |
| Bulkhead (feed-through) | HDC 06B ALU | 1202100000 |
| Plug housing | HDC 06B TOLU 1M20G | 1788120000 |
| Cable glands | VG M20 - MS 68 | 1772220000 |

Metal housing

## 500 V, 24 A, Size 3

### PG versions

| | Type | Order No. |
|---|---|---|
| | HDC-KIT-HE 06.100 | 1712460000 |

| Part | Type | Order No. |
|---|---|---|
| Socket connector | HDC HE 6 FS | 1200200000 |
| Plug | HDC HE 6 MS | 1200000000 |
| Bulkhead (feed-through) | HDC 06B ALU | 1202100000 |
| Plug housing | HDC 06B TSLU 1PG16G | 1652520000 |
| Cable glands | VG 16-MS68 | 1569100000 |

Metal housing

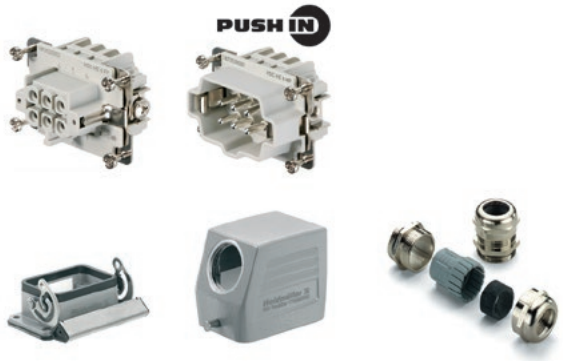
| | Type | Order No. |
|---|---|---|
| | HDC-KIT-HE 06.101 | 1712660000 |

| Part | Type | Order No. |
|---|---|---|
| Socket connector | HDC HE 6 FS | 1200200000 |
| Plug | HDC HE 6 MS | 1200000000 |
| Bulkhead (feed-through) | HDC 06B ALU | 1202100000 |
| Plug housing | HDC 06B TOLU 1PG16G | 1652640000 |
| Cable glands | VG 16-MS68 | 1569100000 |

Metal housing

## 500 V, 24 A, Size 3

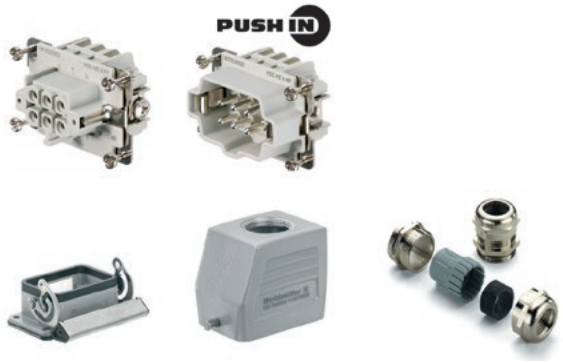
### metric versions




| | Type | Order No. |
|---|---|---|
| | HDC KIT HE-P 06.10 M | 1027650000 |

| Part | Type | Order No. |
|---|---|---|
| Socket connector | HDC HE 6 FP | 1873520000 |
| Plug | HDC HE 6 MP | 1873530000 |
| Bulkhead (feed-through) | HDC 06B ALU | 1202100000 |
| Plug housing | 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. |
|---|---|---|
| Socket connector | HDC HE 6 FP | 1873520000 |
| Plug | HDC HE 6 MP | 1873530000 |
| Bulkhead (feed-through) | HDC 06B ALU | 1202100000 |
| Plug housing | HDC 06B TOLU 1M20G | 1788120000 |
| Cable glands | VG M20 - MS 68 | 1772220000 |

Metal housings

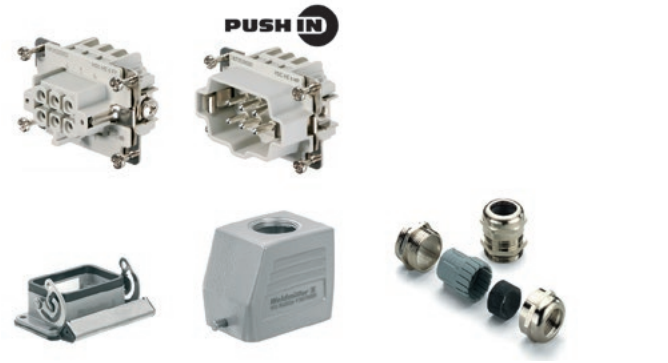
## 500 V, 24 A, Size 3

### PG versions

| | Type | Order No. |
|---|---|---|
| | HDC KIT HE-P 06.10 | 1027660000 |

| Part | Type | Order No. |
|---|---|---|
| Socket connector | HDC HE 6 FP | 1873520000 |
| Plug | HDC HE 6 MP | 1873530000 |
| Bulkhead (feed-through) | HDC 06B ALU | 1202100000 |
| Plug housing | 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. |
|---|---|---|
| Socket connector | HDC HE 6 FP | 1873520000 |
| Plug | HDC HE 6 MP | 1873530000 |
| Bulkhead (feed-through) | HDC 06B ALU | 1202100000 |
| Plug housing | HDC 06B TOLU 1PG16G | 1652640000 |
| Cable glands | VG 16-MS68 | 1569100000 |

Metal housings

# RockStar® 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. |
|---|---|---|
| Socket connector | HDC HE 10 FS | 1204100000 |
| Plug | HDC HE 10 MS | 1203900000 |
| Bulkhead (feed-through) | HDC 10B ABU | 1205000000 |
| Plug housing | 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. |
|---|---|---|
| Socket connector | HDC HE 10 FS | 1204100000 |
| Plug | HDC HE 10 MS | 1203900000 |
| Bulkhead (feed-through) | HDC 10B ABU | 1205000000 |
| Plug housing | 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. |
|---|---|---|
| Socket connector | HDC HE 10 FS | 1204100000 |
| Plug | HDC HE 10 MS | 1203900000 |
| Bulkhead (feed-through) | HDC 10B ABU | 1205000000 |
| Plug housing | 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. |
|---|---|---|
| Socket connector | HDC HE 10 FS | 1204100000 |
| Plug | HDC HE 10 MS | 1203900000 |
| Bulkhead (feed-through) | HDC 10B ABU | 1205000000 |
| Plug housing | HDC 10B TOBU 1PG16G | 1654220000 |
| Cable glands | VG 16-MS68 | 1569100000 |

Metal housing

## 500 V, 16 A, Size 4

### Metric versions

| | Type | Order No. |
|---|---|---|
| | HDC KIT HE-P 10.110 M | 1027670000 |

| Part | Type | Order No. |
|---|---|---|
| Socket connector | HDC HE 10 FP | 1873540000 |
| Plug | HDC HE 10 MP | 1873550000 |
| Bulkhead (feed-through) | HDC 10B ABU | 1205000000 |
| Plug housing | 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. |
|---|---|---|
| Socket connector | HDC HE 10 FP | 1873540000 |
| Plug | HDC HE 10 MP | 1873550000 |
| Bulkhead (feed-through) | HDC 10B ABU | 1205000000 |
| Plug housing | HDC 10B TOBU 1M25G | 1787590000 |
| Cable glands | VG M25 - MS 68 | 1772230000 |

Metal housings

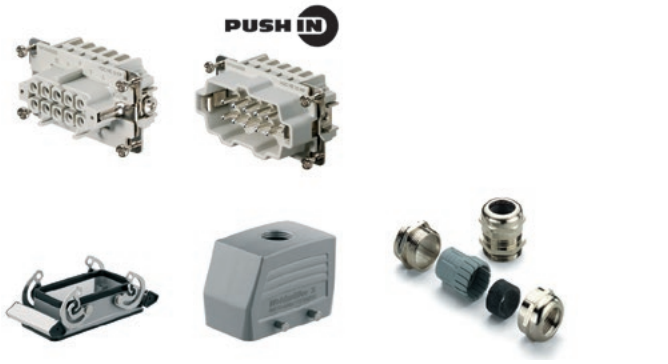
## 500 V, 16 A, Size 4

### PG versions

| | Type | Order No. |
|---|---|---|
| | HDC KIT HE-P 10.110 | 1027680000 |

| Part | Type | Order No. |
|---|---|---|
| Socket connector | HDC HE 10 FP | 1873540000 |
| Plug | HDC HE 10 MP | 1873550000 |
| Bulkhead (feed-through) | HDC 10B ABU | 1205000000 |
| Plug housing | 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. |
|---|---|---|
| Socket connector | HDC HE 10 FP | 1873540000 |
| Plug | HDC HE 10 MP | 1873550000 |
| Bulkhead (feed-through) | HDC 10B ABU | 1205000000 |
| Plug housing | HDC 10B TOBU 1PG16G | 1654220000 |
| Cable glands | VG 16-MS68 | 1569100000 |

Metal housings

## 500 V, 16 A, Size 6

### Metric versions

| | Type | Order No. |
|---|---|---|
| | HDC-KIT-HE 16.120 M | 1802400000 |

| Part | Type | Order No. |
|---|---|---|
| Socket connector | HDC HE 16 FS | 1207700000 |
| Plug | HDC HE 16 MS | 1207500000 |
| Bulkhead (feed-through) | HDC 16B ABU | 1208600000 |
| Plug housing | 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. |
|---|---|---|
| Socket connector | HDC HE 16 FS | 1207700000 |
| Plug | HDC HE 16 MS | 1207500000 |
| Bulkhead (feed-through) | HDC 16B ABU | 1208600000 |
| Plug housing | 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. |
|---|---|---|
| Socket connector | HDC HE 16 FS | 1207700000 |
| Plug | HDC HE 16 MS | 1207500000 |
| Bulkhead (feed-through) | HDC 16B ABU | 1208600000 |
| Plug housing | HDC 16B TSBU 1PG21G | 1656480000 |
| Cable glands | VG 21-MS68 | 1569110000 |

Metal housing

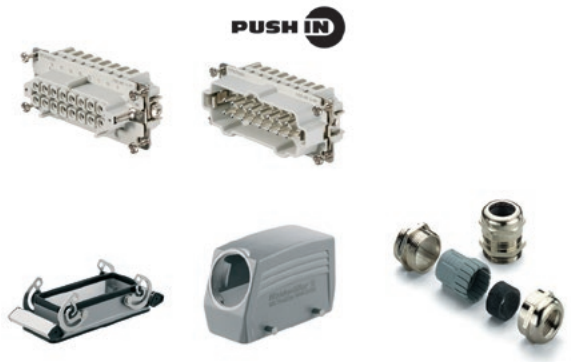
| | Type | Order No. |
|---|---|---|
| | HDC-KIT-HE 16.121 | 1712680000 |

| Part | Type | Order No. |
|---|---|---|
| Socket connector | HDC HE 16 FS | 1207700000 |
| Plug | HDC HE 16 MS | 1207500000 |
| Bulkhead (feed-through) | HDC 16B ABU | 1208600000 |
| Plug housing | HDC 16B TOBU 1PG21G | 1656590000 |
| Cable glands | VG 21-MS68 | 1569110000 |

Metal housing

## 500 V, 16 A, Size 6

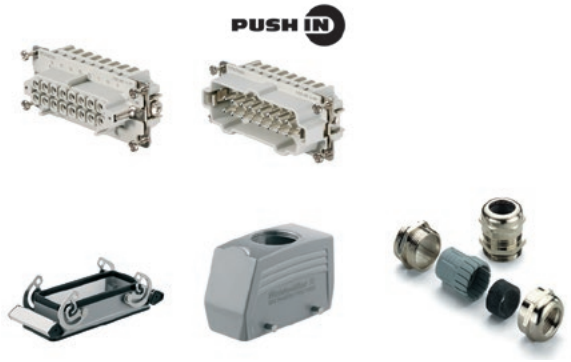
### Metric versions




| | Type | Order No. |
|---|---|---|
| | HDC KIT HE-P 16.120 M | 1027690000 |

| Part | Type | Order No. |
|---|---|---|
| Socket connector | HDC HE 16 FP | 1873560000 |
| Plug | HDC HE 16 MP | 1873570000 |
| Bulkhead (feed-through) | HDC 16B ABU | 1208600000 |
| Plug housing | 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. |
|---|---|---|
| Socket connector | HDC HE 16 FP | 1873560000 |
| Plug | HDC HE 16 MP | 1873570000 |
| Bulkhead (feed-through) | HDC 16B ABU | 1208600000 |
| Plug housing | 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. |
|---|---|---|
| Socket connector | HDC HE 16 FP | 1873560000 |
| Plug | HDC HE 16 MP | 1873570000 |
| Bulkhead (feed-through) | HDC 16B ABU | 1208600000 |
| Plug housing | 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. |
|---|---|---|
| Socket connector | HDC HE 16 FP | 1873560000 |
| Plug | HDC HE 16 MP | 1873570000 |
| Bulkhead (feed-through) | HDC 16B ABU | 1208600000 |
| Plug housing | HDC 16B TOBU 1PG21G | 1656590000 |
| Cable glands | VG 21-MS68 | 1569110000 |

Metal housings

## 500 V, 16 A, Size 8

### Metric versions

| | Type | Order No. |
|---|---|---|
| | HDC-KIT-HE 24.130 M | 1802380000 |

| Part | Type | Order No. |
|---|---|---|
| Socket connector | HDC HE 24 FS | 1211300000 |
| Plug | HDC HE 24 MS | 1211100000 |
| Bulkhead (feed-through) | HDC 24B ABU | 1212400000 |
| Plug housing | 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. |
|---|---|---|
| Socket connector | HDC HE 24 FS | 1211300000 |
| Plug | HDC HE 24 MS | 1211100000 |
| Bulkhead (feed-through) | HDC 24B ABU | 1212400000 |
| Plug housing | 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. |
|---|---|---|
| Socket connector | HDC HE 24 FS | 1211300000 |
| Plug | HDC HE 24 MS | 1211100000 |
| Bulkhead (feed-through) | HDC 24B ABU | 1212400000 |
| Plug housing | HDC 24B TSBU 1PG21G | 1661230000 |
| Cable glands | VG 21-MS68 | 1569110000 |

Metal housing

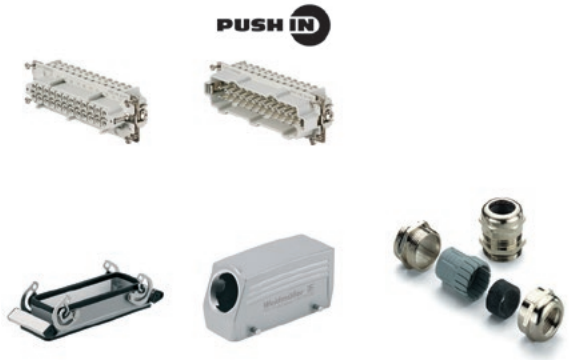
| | Type | Order No. |
|---|---|---|
| | HDC-KIT-HE 24.131 | 1712690000 |

| Part | Type | Order No. |
|---|---|---|
| Socket connector | HDC HE 24 FS | 1211300000 |
| Plug | HDC HE 24 MS | 1211100000 |
| Bulkhead (feed-through) | HDC 24B ABU | 1212400000 |
| Plug housing | HDC 24B TOBU 1PG21G | 1661370000 |
| Cable glands | VG 21-MS68 | 1569110000 |

Metal housing

## 500 V, 16 A, Size 8

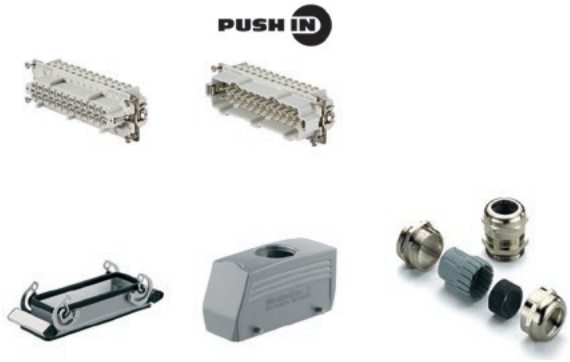
### Metric versions




| | Type | Order No. |
|---|---|---|
| | HDC KIT HE-P 24.130 M | 1061790000 |

| Part | Type | Order No. |
|---|---|---|
| Socket connector | HDC HE 24 FP | 1873580000 |
| Plug | HDC HE 24 MP | 1873590000 |
| Bulkhead (feed-through) | HDC 24B ABU | 1212400000 |
| Plug housing | 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. |
|---|---|---|
| Socket connector | HDC HE 24 FP | 1873580000 |
| Plug | HDC HE 24 MP | 1873590000 |
| Bulkhead (feed-through) | HDC 24B ABU | 1212400000 |
| Plug housing | 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. |
|---|---|---|
| Socket connector | HDC HE 24 FP | 1873580000 |
| Plug | HDC HE 24 MP | 1873590000 |
| Bulkhead (feed-through) | HDC 24B ABU | 1212400000 |
| Plug housing | 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. |
|---|---|---|
| Socket connector | HDC HE 24 FP | 1873580000 |
| Plug | HDC HE 24 MP | 1873590000 |
| Bulkhead (feed-through) | HDC 24B ABU | 1212400000 |
| Plug housing | HDC 24B TOBU 1PG21G | 1661370000 |
| Cable glands | VG 21-MS68 | 1569110000 |

Metal housings

# RockStar® 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. |
|---|---|---|
| Socket connector | HDC HE 16 FS | **1207700000** |
| Socket connector | HDC HE 16 FS 17-32 | **1216100000** |
| Plug | HDC HE 16 MS | **1207500000** |
| Plug | HDC HE 16 MS 17-32 | **1215700000** |
| Bulkhead (feed-through) | HDC 32B ABU | **1217800000** |
| Plug housing | 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. |
|---|---|---|
| Socket connector | HDC HE 16 FS | 1207700000 |
| Socket connector | HDC HE 16 FS 17-32 | 1216100000 |
| Plug | HDC HE 16 MS | 1207500000 |
| Plug | HDC HE 16 MS 17-32 | 1215700000 |
| Bulkhead (feed-through) | HDC 32B ABU | 1217800000 |
| Plug housing | HDC 32B TSBU 1PG29G | 1666840000 |
| Cable glands | VG 29-MS68 | 1569120000 |

Metal housing

# RockStar® 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. |
|---|---|---|
| Socket connector | HDC HE 24 FS | **1211300000** |
| Socket connector | HDC HE 24 FS 25-48 | **1221200000** |
| Plug | HDC HE 24 MS | **1211100000** |
| Plug | HDC HE 24 MS 25-48 | **1220800000** |
| Bulkhead (feed-through) | HDC 48B ADLU | **1222900000** |
| Plug housing | 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. |
|---|---|---|
| Socket connector | HDC HE 24 FS | 1211300000 |
| Socket connector | HDC HE 24 FS 25-48 | 1221200000 |
| Plug | HDC HE 24 MS | 1211100000 |
| Plug | HDC HE 24 MS 25-48 | 1220800000 |
| Bulkhead (feed-through) | HDC 48B ADLU | 1222900000 |
| Plug housing | HDC 48B TSLU 1PG29G | 1650850000 |
| Cable glands | VG 29-MS68 | 1569120000 |

Metal housing

# RockStar® 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. |
|---|---|---|
| Socket connector | HDC HSB 6 FS | 1498900000 |
| Plug | HDC HSB 6 MS | 1498700000 |
| Bulkhead (feed-through) | HDC 16B ABU | 1208600000 |
| Plug housing | HDC 16B TSBU 1PG21G | 1656480000 |
| Cable glands | VG 21-MS68 | 1569110000 |

Metal housing

# RockStar® accessories, tools and cable glands


| | | |
|---|---|---|
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# RockStar® Accessories

In addition to heavy-duty connectors, RockStar® also includes functional and safety accessories – including crimp contacts, coding systems and shield clamps – to help you with your facility cabling.

A technically proper crimp connection should be gas-tight and corrosion-resistant. Machined crimp contacts are available with different performance requirements and with either silver or gold plating.

When aligning multiple connectors with similar mating profiles within one facility, you must safeguard against accidental plugging mistakes. The RockStar® product line also includes the corresponding locking pins, coding systems and pole coding for this purpose.

If multiple shielded cables are being fed into the connector housing using a flexible hose or a multi-cable feed, then the shielding should normally be connected to a shield clamp attached to an insert. The potential is conducted to the housing using the metallic transition. The shielded conductor is fastened to the shield clamp with shield clips, which are available in a variety of sizes.

**Solid**
Weidmüller's coding system can help you to clearly classify and organise your connectors while also ensuring that they cannot be plugged in incorrectly.

**Secure**
Solid, machined crimped contacts ensure a gas-tight and corrosion-resistant crimp.

**Optimised shielding**
Shield clamps and shield clips allow the shield to be directly attached to the connector housing.

## Crimp contacts

## Crimp contacts for fixed-pole inserts

### Technical data

| | for HD and HDD inserts | for HE and HEE inserts |
|---|---|---|
| Material | Copper alloy | Copper alloy |
| Surface hard gold-plated | 0.8 µm | 0.8 µm |
| Surface hard silver-plated | 3 µm | 3 µm |
| Contact resistance | ≤ 4 mΩ | ≤ 2 mΩ |
| Clamping range | 0.14 ... 2.5 mm2<br>26 ... 14 AWG | 0.5 ... 4.0 mm²<br>20 ... 12 AWG |
| Stripping length | 8 mm | 7.5 mm |

### For HD and HDD inserts

#### Crimp contacts

Surface Gold

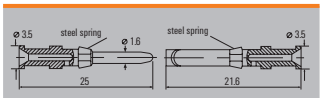
Surface Silver

#### Male

| Qty. | Type | Order No. |
|---|---|---|
| 100 | HDC-C-HD-SM0.14-0.37AU | 1651620000 |
| 100 | HDC-C-HD-SM0.5AU | 1651630000 |
| 100 | HDC-C-HD-SM0.75-1.00AU | 1651640000 |
| 100 | HDC-C-HD-SM1.5AU | 1651650000 |
| 100 | HDC-C-HD-SM2.5AU | 1651660000 |
| | | |
| 100 | HDC-C-HD-SM0.14-0.37AG | 1651520000 |
| 100 | HDC-C-HD-SM0.5AG | 1651530000 |
| 100 | HDC-C-HD-SM0.75-1.00AG | 1601750000 |
| 100 | HDC-C-HD-SM1.5AG | 1651550000 |
| 100 | HDC-C-HD-SM2.5AG | 1651560000 |

#### Female

| Type | Order No. |
|---|---|
| HDC-C-HD-BM0.14-0.37AU | 1651670000 |
| HDC-C-HD-BM0.5AU | 1651680000 |
| HDC-C-HD-BM0.75-1.00AU | 1651690000 |
| HDC-C-HD-BM1.5AU | 1651700000 |
| HDC-C-HD-BM2.5AU | 1651710000 |
| | |
| HDC-C-HD-BM0.14-0.37AG | 1651570000 |
| HDC-C-HD-BM0.5AG | 1651580000 |
| HDC-C-HD-BM0.75-1.00AG | 1601760000 |
| HDC-C-HD-BM1.5AG | 1651600000 |
| HDC-C-HD-BM2.5AG | 1651610000 |




| Conductor cross-section | | Insulation stripping length |
|---|---|---|
| 0.14 – 0.37 mm² | AWG 26-22 | 8 mm |
| 0.50 mm² | AWG 20 | 8 mm |
| 0.75 – 1.00 mm² | AWG 18 | 8 mm |
| 1.50 mm² | AWG 16 | 8 mm |
| 2.50 mm² | AWG 14 | 8 mm |

#### Tools

| Crimping tool | Order No. |
|---|---|
| CTX CM 1,6 / 2,5 | 9018490000 |
| CTIN CM 1.6/2.5 | 9205430000 |
| **Contact release tool** | |
| Removal Tool HD | 1866730000 |

### For HE, HEE and HEEE inserts

#### Crimp contacts

Surface Gold

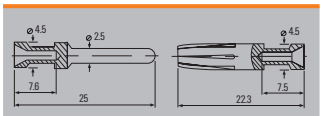
Surface Silver

#### Male

| Qty. | Type | Order No. |
|---|---|---|
| 100 | HDC-C-HE-SM0.5AU | 1651420000 |
| 100 | HDC-C-HE-SM0.75-1.00AU | 1651430000 |
| 100 | HDC-C-HE-SM1.5AU | 1651440000 |
| 100 | HDC-C-HE-SM2.5AU | 1651450000 |
| 100 | HDC-C-HE-SM4.0AU | 1651460000 |
| 100 | HDC-C-HE-SM4.65AU | 1116540000 |
| | | |
| 100 | HDC-C-HE-SM0.5AG | 1200500000 |
| 100 | HDC-C-HE-SM0.75-1.00AG | 1200600000 |
| 100 | HDC-C-HE-SM1.5AG | 1200700000 |
| 100 | HDC-C-HE-SM2.5AG | 1200800000 |
| 100 | HDC-C-HE-SM4.0AG | 1200900000 |

#### Female

| Type | Order No. |
|---|---|
| HDC-C-HE-BM0.5AU | 1651470000 |
| HDC-C-HE-BM0.75-1.00AU | 1651480000 |
| HDC-C-HE-BM1.5AU | 1651490000 |
| HDC-C-HE-BM2.5AU | 1651500000 |
| HDC-C-HE-BM4.0AU | 1651510000 |
| HDC-C-HE-BM4.65AU | 1116530000 |
| | |
| HDC-C-HE-BM0.5AG | 1201100000 |
| HDC-C-HE-BM0.75-1.00AG | 1201200000 |
| HDC-C-HE-BM1.5AG | 1201300000 |
| HDC-C-HE-BM2.5AG | 1201400000 |
| HDC-C-HE-BM4.0AG | 1201500000 |




| Conductor cross-section | | Insulation stripping length |
|---|---|---|
| 0.50 mm² | AWG 20 | 7.5 mm |
| 0.75 – 1.00 mm² | AWG 18 | 7.5 mm |
| 1.50 mm² | AWG 16 | 7.5 mm |
| 2.50 mm² | AWG 14 | 7.5 mm |
| 4.00 mm² | AWG 12 | 7.5 mm |
| 4.65 mm² | AWG 11 | 7.5 mm |

#### Tools

| Crimping tool | Order No. |
|---|---|
| CTX CM 1,6 / 2,5 | 9018490000 |
| CTIN CM 1.6/2.5 | 9205430000 |
| **Contact release tool** | |
| Removal Tool HE | 1866750000 |

## Crimp contacts for fixed-pole inserts

### Technical data

| | For HQ and MixMate inserts | CM-3 |
|---|---|---|
| Material | Copper alloy | Copper alloy |
| Surface hard silver-plated | 3 µm | 3 µm |
| Contact resistance | ≤ 1 mΩ | ≤ 1 mΩ |
| Clamping range | 1.5 ... 6 mm² | 1.5 ... 10 mm² |
| | 16 ... 10 AWG | 16 ... 7 AWG |
| Stripping length | 8 mm | 10 mm |

### For HQ and MixMate inserts

#### Crimp contacts

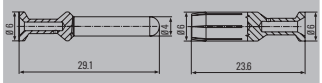
Surface Silver

**Male**

| Qty. | Type | Order No. |
|---|---|---|
| 25 | HDC C HX SM1.5AG | 1002910000 |
| 25 | HDC C HX SM2.5AG | 1002920000 |
| 25 | HDC C HX SM4.0AG | 1002930000 |
| 25 | HDC C HX SM6.0AG | 1002940000 |

**Female**

| Type | Order No. |
|---|---|
| HDC C HX BM1.5AG | 1002950000 |
| HDC C HX BM2.5AG | 1002960000 |
| HDC C HX BM4.0AG | 1002970000 |
| HDC C HX BM6.0AG | 1002980000 |




| Conductor cross-section | | Insulation stripping length |
|---|---|---|
| 1.50 mm² | AWG 16 | 8 mm |
| 2.50 mm² | AWG 14 | 8 mm |
| 4.00 mm² | AWG 12 | 8 mm |
| 6.00 mm² | AWG 10 | 8 mm |

#### Tools

| Crimping tool | Order No. |
|---|---|
| CTIN CM 1.6/2.5 | 9205430000 |
| **Contact release tool** | |
| Removal Tool HX | 1002990000 |

### High Power signal contacts

#### Crimp contacts

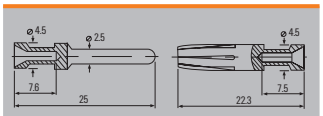
Surface Silver

**Male**

| Qty. | Type | Order No. |
|---|---|---|
| 100 | HDC-C-M3-SM1.5AG | 1698120000 |
| 100 | HDC-C-M3-SM2.5AG | 1698140000 |
| 100 | HDC-C-M3-SM4.0AG | 1682260000 |
| 100 | HDC-C-M3-SM6.0AG | 1682280000 |
| 100 | HDC-C-M3-SM10.0AG | 1682300000 |

**Female**

| Type | Order No. |
|---|---|
| HDC-C-M3-BM1.5AG | 1698130000 |
| HDC-C-M3-BM2.5AG | 1698150000 |
| HDC-C-M3-BM4.0AG | 1682270000 |
| HDC-C-M3-BM6.0AG | 1682290000 |
| HDC-C-M3-BM10.0AG | 1682310000 |




| Conductor cross-section | | Insulation stripping length |
|---|---|---|
| 0.50 mm² | AWG 20 | 7.5 mm |
| 0.75 – 1.00 mm² | AWG 18 | 7.5 mm |
| 1.50 mm² | AWG 16 | 7.5 mm |
| 2.50 mm² | AWG 14 | 7.5 mm |
| 4.00 mm² | AWG 12 | 7.5 mm |
| 4.65 mm² | AWG 11 | 7.5 mm |

#### Tools

| Crimping tool | Order No. |
|---|---|
| CTX CM 1,6 / 2,5 | 9018490000 |
| CTIN CM 1.6/2.5 | 9205430000 |
| CTX CM 3,6 | 9018480000 |
| CTIN CM 3.6 | 9205440000 |
| **Contact release tool** | |
| Removal Tool CM3 | 1866710000 |

## Crimp contacts

## Crimp contacts for HighPower

### Technical data

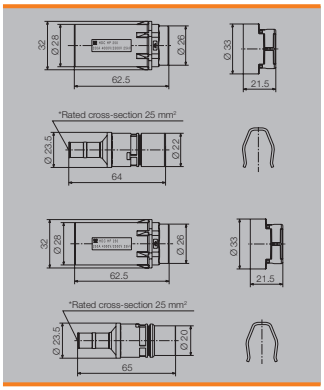
| | for HighPower 250 A |
|---|---|
| Material | Copper alloy |
| Surface hard silver-plated | 3-5 µm |
| Contact resistance | ≤ 0.1 mΩ |
| Clamping range | 25 ... 95 mm²<br>AWG 4 ... AWG 000 |
| Stripping length | 30 mm* |

### For HighPower 250 A

**Crimp contacts**

| Wire connection cross-section | Male Type | Order No. | Female Type | Order No. |
|---|---|---|---|---|
| 25 mm² | HDC HP 250 M 25 | **1079690000** | HDC HP 250 F 25 | **1079720000** |
| 35 mm² | HDC HP 250 M 35 | **1079680000** | HDC HP 250 F 35 | **1079730000** |
| 50 mm² | HDC HP 250 M 50 | **1119080000** | HDC HP 250 F 50 | **1079740000** |
| 70 mm² | HDC HP 250 M 70 | **1119090000** | HDC HP 250 F 70 | **1079750000** |
| 95 mm² | HDC HP 250 M 95 | **1119100000** | HDC HP 250 F 95 | **1079770000** |
| **Insulated PE contact** | | | | |
| 50 mm² | 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.

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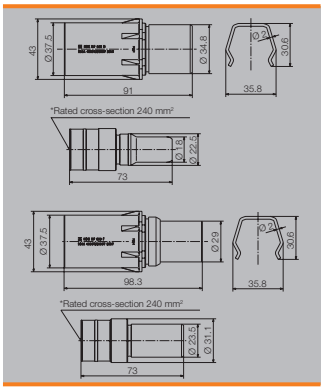
## Technical data

| | for HighPower 550 A |
|---|---|
| Material | Copper alloy |
| Surface hard silver-plated | 3-5 µm |
| Contact resistance | ≤ 0.1 mΩ |
| Clamping range | 50 ... 240 mm²<br>AWG 1/0 ... kcmil 500 |
| Stripping length | 30 mm* |

## For HighPower 550 A

**Crimp contacts**

| Wire connection cross-section | Male Type | Order No. | Female Type | Order No. |
|---|---|---|---|---|
| 25 mm² | HDC HP 550 M 25 | **1220580000** | HDC HP 550 F 25 | **1220570000** |
| 50 mm² | HDC HP 550 M 50 | **1157800000** | HDC HP 550 F 50 | **1177100000** |
| 70 mm² | HDC HP 550 M 70 | **1268810000** | HDC HP 550 F 70 | **1268820000** |
| 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** |

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## Fibre optic contacts

Fibre-optic cables guarantee interference-free transmission without any feedback.

The new fibre-optic contacts can now also be used in heavy-duty connectors. Their shape corresponds to that of our proven HD contacts for connecting conventional copper wires. Accordingly, they can be assembled in existing connectors of the HD series, as well as being suitable for use with the ConCept modular system. It is even possible to connect fibre-optic wires and copper wires in a single connector.

The advantages at a glance:

- Immune to electromagnetic interference
- Absolute contact separation
- Weight reduction by dispensing with copper wires
- High transmission capacity and large bandwidth
- All advantages now also available for robust industrial environments

### HDC-C-HD ... LWL 1.0 POF

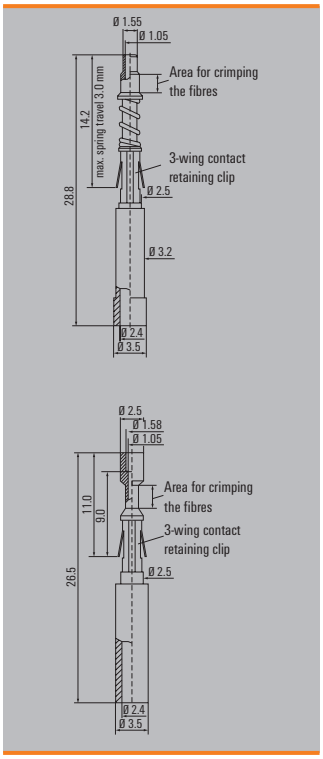
#### Technical data

| | |
|---|---|
| **Connection for POF cable** | |
| Maximum outer diameter | 2.2 mm |
| Polymer fibre diameter | 1.0 mm |
| **Attenuation** | |
| – Requirement to DIN IEC Part 7 Section 2/05.94: | < 3 dB |
| – the HDC-C-HD LWL contacts in plugged-in state: | < 2 dB |
| **Material** | |
| Temperature range | –40 °C to +85 °C |
| Contact material | Nickel-silver |
| Over-spring | Copper alloy |

#### Ordering data

| Qty. | Male | Order No. | Female | Order No. |
|---|---|---|---|---|
| 5 | HDC-C-HD-S-LWL 1.0 POF | **1773630000** | HDC-C-HD-B-LWL 1.0 POF | **1773640000** |

HD inserts must be ordered separately



## Instructions for assembling fibre optic contacts

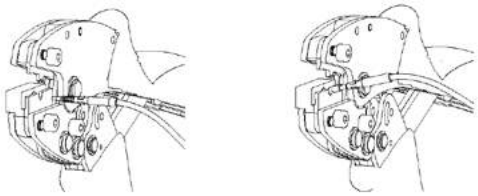
1. Cut POF cable (polymer optical fibre) to the required length with cutting tool (we recommend the KT 8).

2. The end face of the fibre of 2.2 mm POF cables must be polished before crimping onto the fibre optic contact. Insert end of POF cable into polishing disc and polish with polishing sheet placed on a smooth surface (e.g. glass plate). Wipe away any residues after polishing. The best optical attenuation values are obtained with wet polishing.

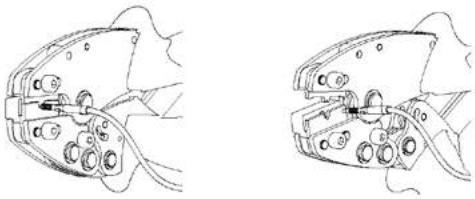
3. Strip sheath of 2.2 mm POF cable to at least 14 mm for female contacts (HDC-C-HD-B-LWL) and at least 19 mm for male contacts (HDC-C-HD-S-LWL).

4. Crimping:
   - A. Insert POF cable into male contact, then both together into the crimping die.
   - B. The female contact has to be inserted angled slightly downwards into the die. Make sure the end face of the contact and the plastic fibre press against the locator.
   - C. Squeeze the hand levers until the tool unlocks.
   - D. Release option in case of incorrect operation.

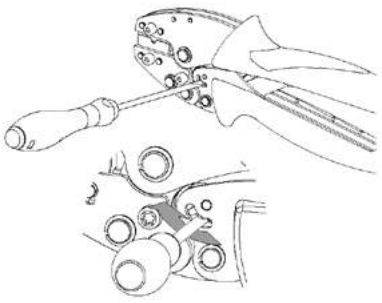
A. Male B. Female



C.



D.



### Cutting tool

including positioning sleeve

| Type | Qty. | Order No. |
|---|---|---|
| KT8 | 1 | 1096180000 |

### Polishing disc for fibre-optic cable

Polishing sheet, 1,000 grit size

| Type | Qty. | Order No. |
|---|---|---|
| PS LWL/POF | 1 | 9020390000 |
| PB LWL/POF | 1 | 9020400000 |

### Stripping tool

for fibre-optic cable

| Type | Qty. | Order No. |
|---|---|---|
| AM LWL/POF | 1 | 9020360000 |

### Crimping tool

for fibre-optic set

| Type | Qty. | Order No. |
|---|---|---|
| HTX-HDC/POF | 1 | 9010950000 |

### Contact release tool

for removing machined HD and fibre-optic contacts

| Type | Qty. | Order No. |
|---|---|---|
| Removal Tool HD | 1 | 1866730000 |

## Coding pins

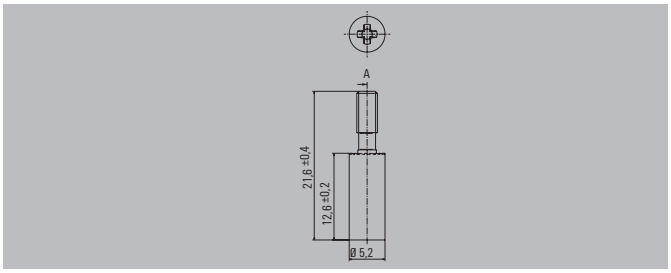
Where several connectors of similar type are arranged on a machine, it is essential to avoid the risk of connectors being inserted in the wrong place.
If you have up to six connectors to code, Weidmüller coding pins are the simplest solution. They allow six secure coding variations.

In this case, you substitute two M3 fastening screws on the female insert by coding pins. On the male insert, you leave the opposing fastening screws where they are and substitute the others by coding pins. You then have a pair of inserts that fit together. The coding diagram illustrates the system.

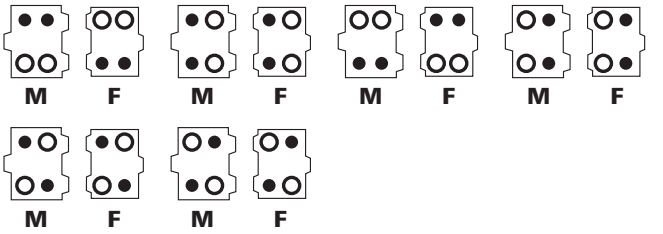
### Ordering data

| Type | Qty. | Order No. |
|---|---|---|
| SPB-M 3 | 10 | 1203600000 |

Allow 4 coding pins for each connector.




### Coding arrangement for coding pins



## Coding system with guiding function

If you have more than six connectors of similar type to code, you need coding pins and coding sockets.
Replace all M3 fastening screws of an insert by two coding pins and two coding sockets. You then fit two coding pins and two coding sockets to the mating insert, in a complementary arrangement.

Fit coding pins to the other connectors in the same way, but with a different arrangement. The coding diagram illustrates the system.

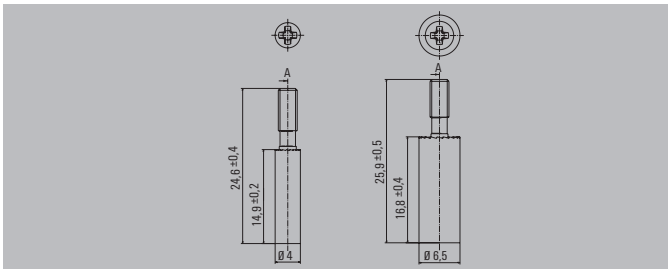
### Ordering data DSTV

**For fixed-pole inserts**

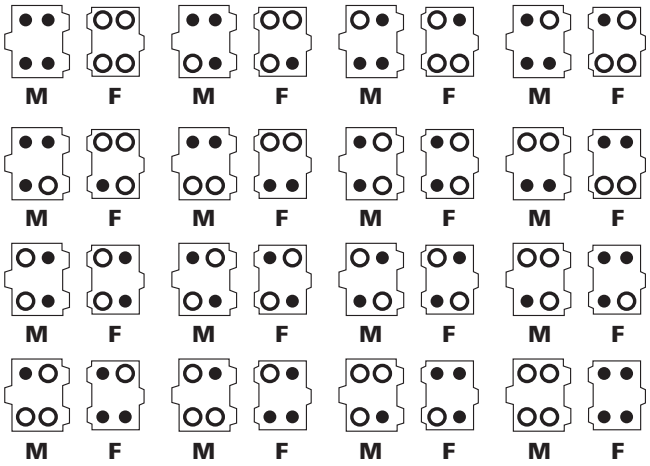
| Type | Qty. | Order No. |
|---|---|---|
| DSTV COST4 | 100 | **1471300000** |
| DSTV COBU5 | 100 | **1471500000** |

Cod. socket 5 mm dia ○
Cod. pin 4 mm dia ●

Plan to have four coding pins and four coding sockets for each connector.




### Coding arrangement for coding pins



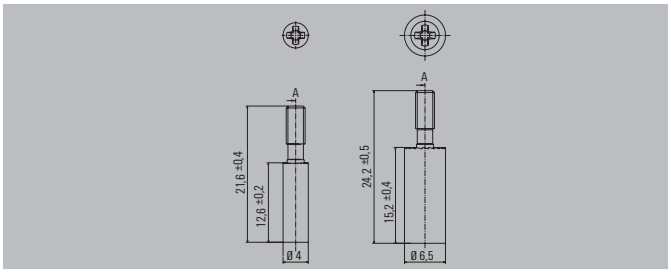

### Ordering data HDC CM

**For ModuPlug metal frames**

| Type | Qty. | Order No. |
|---|---|---|
| HDC CM GUIDING PIN | 100 | **1202660000** |
| HDC CM GUIDING SOCKET | 100 | **1202670000** |

Cod. socket 5 mm dia ○
Cod. pin 4 mm dia ●

Plan to have four coding pins and four coding sockets for each connector.

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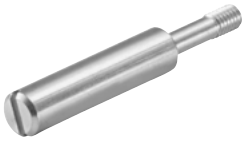
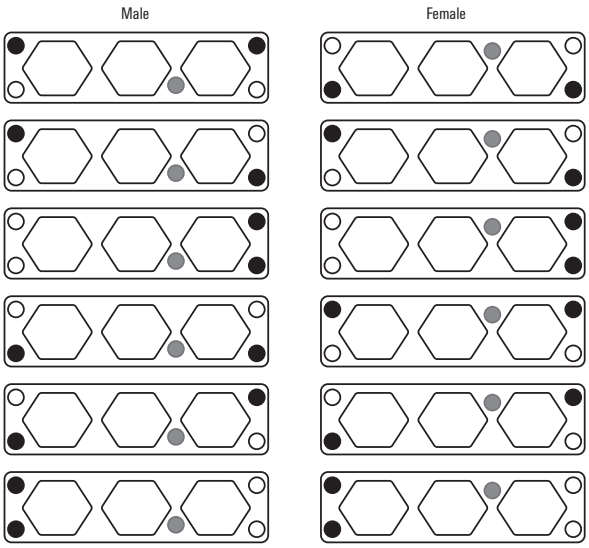
## Assembly instructions for the coding system for the RockStar® HDC HighPower connectors

The coding elements (available under Accessories) can be used to code up to six connectors.

### Ordering data

| Coding pin | Type | Order No. |
|---|---|---|
|  | HDC HP CODING SYSTEM | **1160780000** |

### Coding arrangement Male/Female



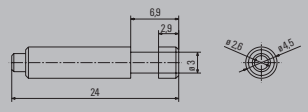
## HE coding pin

Use the HE coding pin for a quick and simple solution to avoid mixing up your plug-in connections. The coding pin can be inserted into a single contact chamber (instead of a crimp contact) on both the male and female side of the connector. The opposite mated contact then remains free. The HE coding pin can be used to code all inserts and modules using HE-series crimp contacts.

These include the following:
- HA crimp inserts
- HE crimp inserts
- HEE inserts
- HEEE inserts
- HQ 5 insert
- HQ 8 insert
- S8/24 insert (power contacts)

### Ordering data

| Type | Qty. | Order No. |
|---|---|---|
| HDC HE CP | 100 | 1003240000 |



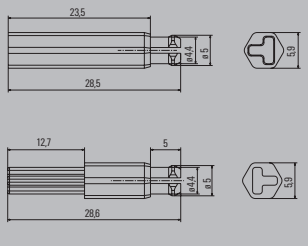

## HQ 7 coding system

You can protect 7-pole HQ connectors against false insertions by using the HQ 7 coding system. Both a coding pin and socket are used for protection. Six different variants are permitted by the shape of the optional coding which is aligned centrally in the connector. Refer to the coding diagram for the layout.

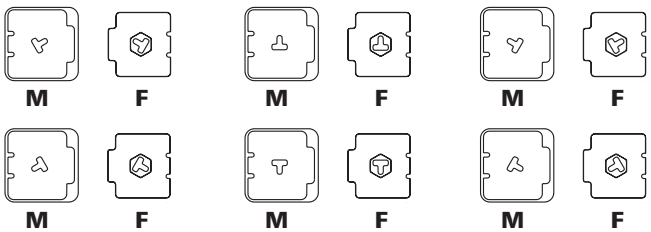
### Ordering data

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

**Note:**
Six-way coding is possible with a coding pin.




### Coding arrangement Male/Female



# Shield lever for sizes 3, 4, 6 and 8 for fitting of shield clamps or KLBÜ 3–8 SC

## Technical data

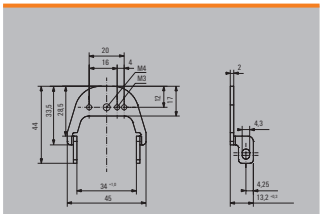
| | |
|---|---|
| Use | Clamping of the shield |
| Fastening of shield lever | To PE terminal, both sides, 2nd screw for fixing |
| Cable connection system | Shield clamp or KLBÜ clamping yoke |
| No. shield clamps or KLBÜ clamping yokes | |
| Size 3 | 1* |
| Size 4 | 2* |
| Size 6 | 3* |
| Size 8 | 5* |
| Clamping range shield clamp | see page I.18 |
| Material | Steel |
| Surface | Galvanised |
| Temperature range | –40 °C ... +125 °C |

**Note:** *Fastening points of shield clamp, 16 mm spacing

## Shield lever
for standard inserts

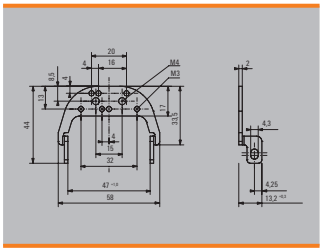
### HDC SHIELD LEVER 3 SC

| Type | Size | Qty. | Order No. |
|---|---|---|---|
| HDC SHIELD LEVER 3 SC | 3 | 1 | 1867390000 |



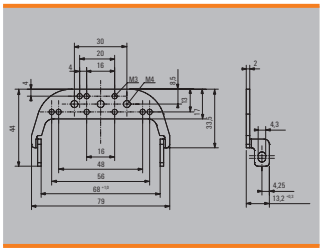
### HDC SHIELD LEVER 4 SC

| Type | Size | Qty. | Order No. |
|---|---|---|---|
| HDC SHIELD LEVER 4 SC | 4 | 1 | 1867370000 |



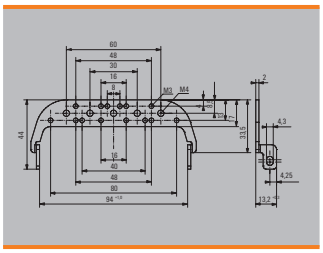
### HDC SHIELD LEVER 6 SC

| Type | Size | Qty. | Order No. |
|---|---|---|---|
| HDC SHIELD LEVER 6 SC | 6 | 1 | 1867380000 |



### HDC SHIELD LEVER 8 SC

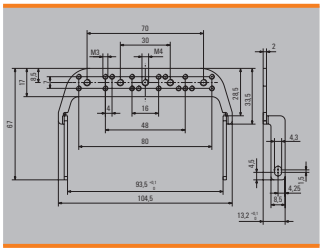
| Type | Size | Qty. | Order No. |
|---|---|---|---|
| HDC SHIELD LEVER 8 SC | 8 | 1 | 1867360000 |



## Shield lever
for standard inserts – special versions

### SHIELD LEVER 8 MOD 35 mm

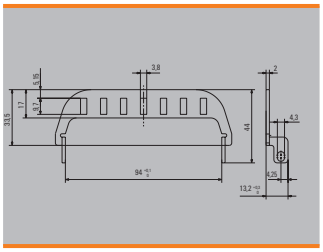
| Type | Size | Qty. | Order No. |
|---|---|---|---|
| SHIELD LEVER 8 MOD 35mm | 8 | 1 | 1000950001 |



## Shield lever
Special versions

### HDC SHIELD LEVER 8 LL

| Type | Size | Qty. | Order No. |
|---|---|---|---|
| HDC SHIELD LEVER 8 LL | 8 | 1 | 1011380000 |

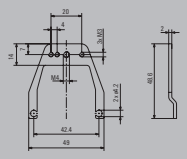


## Shield lever

for the ModuPlug modular system (metal frame) – 45° angled version

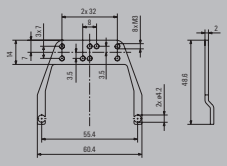
### HDC MSL6

| Type | Size | Qty. | Order No. |
|---|---|---|---|
| HDC MSL6 | 3 | 1 | 1435410000 |



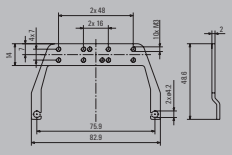
### HDC MSL10

| Type | Size | Qty. | Order No. |
|---|---|---|---|
| HDC MSL10 | 4 | 1 | 1435420000 |



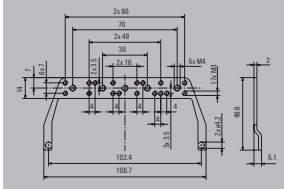
### HDC MSL16

| Type | Size | Qty. | Order No. |
|---|---|---|---|
| HDC MSL16 | 6 | 1 | 1435430000 |



### HDC MSL24

| Type | Size | Qty. | Order No. |
|---|---|---|---|
| HDC MSL24 | 8 | 1 | 1435440000 |



## PE-Extension

for ModuPlug frames

### HDC MF CA16 PE

| Type | | Qty. | Order No. |
|---|---|---|---|
| HDC MF CA16 PE | 16 mm² | 1 | 1480940000 |

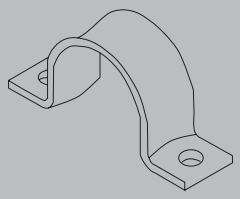
## Shield clamps for shield levers of size 3 (06B), 4 (10B), 6 (16B) and 8 (24B)

### Technical data

| | | |
|---|---|---|
| Use | Clamps shield on the shield lever | |
| Fastening of shield lever | With supplied fastening accessories | |
| Clamping range shield clamp | Cable diameter mm | Gauge of fastening holes mm |
| Shield clamp 10 mm | 10 | 20 |
| Shield clamp 9 mm | 9 | 20 |
| Shield clamp 8 mm | 8 | 20 |
| Shield clamp 7 mm | 7 | 20 |
| Shield clamp 6 mm | 6 | 16 |
| Shield clamp 5 mm | 5 | 16 |
| Shield clamp 4.5 mm | 4.5 | 16 |
| Material | Steel | |
| Surface | Galvanised | |
| Temperature range | -40 °C ... +125 °C | |

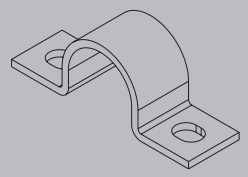
### Shield clamps

| Type | Qty. | Order No. |
|---|---|---|
| SHIELD CLAMP 4.5 WO S | 100 | 1018120000 |
| SHIELD CLAMP 5 WO S | 100 | 1018130000 |
| SHIELD CLAMP 6 WO S | 100 | 1018150000 |
| SHIELD CLAMP 7 WO S | 100 | 1018160000 |
| SHIELD CLAMP 8 WO S | 100 | 1018170000 |
| SHIELD CLAMP 9 WO S | 100 | 1018180000 |
| SHIELD CLAMP 10 WO S | 100 | 1018110000 |



### Shield clamps with fitting materials

| Type | Qty. | Order No. |
|---|---|---|
| HDC SHIELD CLAMP 4.5 | 100 | 1912190000 |
| HDC SHIELD CLAMP 5.0 | 100 | 1912200000 |
| HDC SHIELD CLAMP 6.0 | 100 | 1912210000 |
| HDC SHIELD CLAMP 7.0 | 100 | 1912220000 |
| HDC SHIELD CLAMP 8.0 | 100 | 1912230000 |
| HDC SHIELD CLAMP 9.0 | 100 | 1912240000 |
| HDC SHIELD CLAMP 10.0 | 100 | 1912250000 |
| HDC SHIELD CLAMP 14.0 | 100 | 1002820000 |



### PE and mounting screws

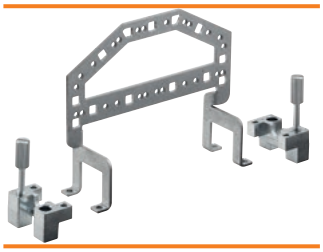
| Type | Qty. | Order No. |
|---|---|---|
| HDC PE HA SCREW M4x5,5 | 50 | 1025660000 |
| HDC PE HE SCREW M4x7,8 | 50 | 1025670000 |
| HDC PE HD/ HDD/CF SCREW M4x6 | 50 | 1029440000 |
| HDC PE HSB/S SCREW M5x8 | 50 | 1029470000 |
| HDC PE S6/6 SCREW M4x8 | 50 | 1029520000 |
| HDC FIXING SC SIZE1 M3x6 | 50 | 1168850000 |
| HDC FIXING SCREW M3x10 | 50 | 1029510000 |

## HDC GRIP PANEL

### Technical data

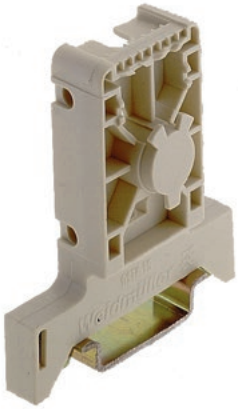
| | |
|---|---|
| Use | KLBÜ and shield clamps can be used<br>Cable ties can be used for fixing cable |
| Suitable for the series: | HE, HEE<br>HD, HDD<br>HVE<br>HSB |
| Material | Steel |
| Surface | Galvanised |
| Temperature range | –40 °C to 125 °C |

### Grip panel with screw adapter



| Type | Size | Qty. | Order No. |
|---|---|---|---|
| HDC GRIP PANEL 3 ADAPT | 3 | 1 | **1444680000** |
| HDC GRIP PANEL 4 ADAPT | 4 | 1 | **1444710000** |
| HDC GRIP PANEL 6 ADAPT | 6 | 1 | **1444720000** |
| HDC GRIP PANEL 8 ADAPT | 8 | 1 | **1444730000** |

## Locking foot for TS 35 mounting rail



## Locking hook

Example: DSTV-TS



## Ordering data

| Type | Qty. | Order No. |
|---|---|---|
| DSTV-TS 6-24 | 10 | **1595220000** |

**Note:**
For all inserts apart from HA and all inserts of size 1

## Ordering data

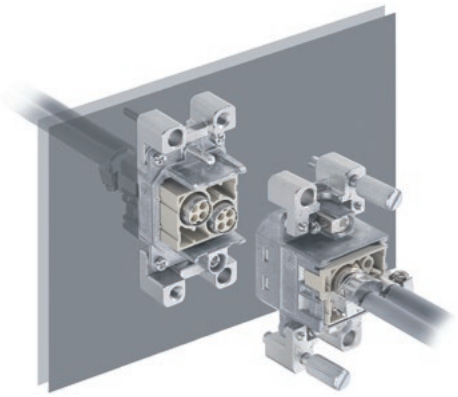
| Type | Qty. | Order No. |
|---|---|---|
| DSTV-TS 6 VH | 10 | **1595230000** |
| DSTV-TS 10-24 VH | 10 | **1595240000** |

**Note:**
For all inserts apart from HA and all inserts of size 1

## HDC screw adapter

The screw adapter is an IP20 installation solution with a full metal construction. The inserts are screwed into the screw adapters. The fastening screws for the inserts should be tightened with 0.5 Nm torque.

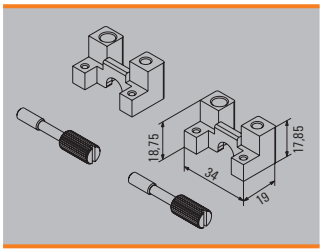
After the contact insert has been properly connected with the screw adapter, it can be mounted to the bulkhead or used as a mating connector, depending on the particular version. Three different screw adapters are possible based on the screw-in angle. The required mounting hardware is included.



### HDC ADAPTER W. SCREW

| Type | Qty. | Order No. |
|---|---|---|
| HDC ADAPTER W. SCREW | 1 | 1017010000 |

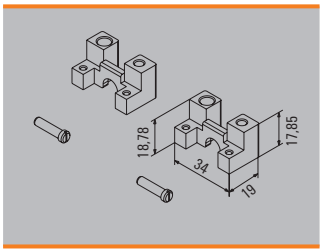
**Note:** Knurled screw interlock for the connector




### HDC SCREW ADAPTER

| Type | Qty. | Order No. |
|---|---|---|
| HDC SCHRAUBADAPTER | 1 | 1002790000 |

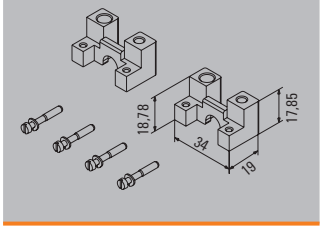
**Note:** Rectangular cut-out and M4 screws for mounting to wall panel; M3 screws for mounting the insert in the adapter

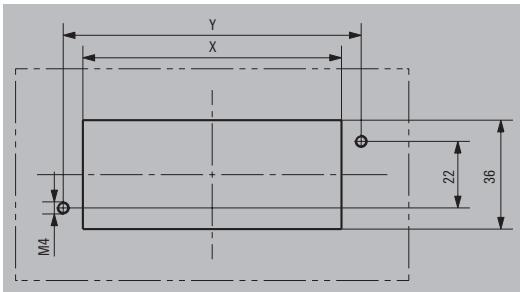



### HDC SCREW ADAPTER W/O T

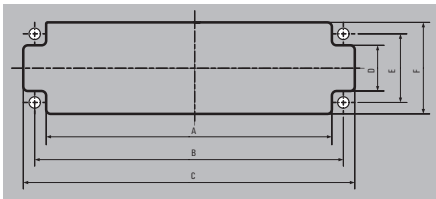
| Type | Qty. | Order No. |
|---|---|---|
| HDC SCREW ADAPTER W/O T | 1 | 1028030000 |

**Note:** Direct mounting on wall panel with rectangular cut-out and M3 screws



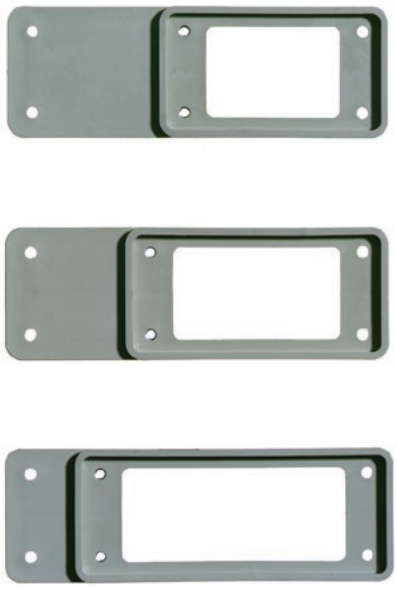




| Size | Dimension „X" | Dimension „Y" |
|---|---|---|
| 3 | 52.0 mm | 65.0 mm |
| 4 | 65.0 mm | 78.0 mm |
| 6 | 85.5 mm | 98.5 mm |
| 8 | 112.0 mm | 125.0 mm |




| Size | Type | A | B | C | D | E | F |
|---|---|---|---|---|---|---|---|
| Size 3 | HE 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 |

## 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** |

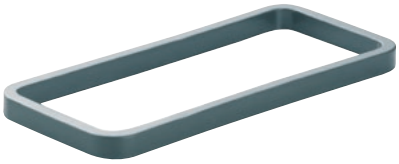
### Ordering data

| 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

## Seals

### Ordering data

| Type | Size | Qty. | Order No. |
|---|---|---|---|
| HDC DG 07A | 1 | 5 | **1044580000** |
| HDC DG 10A | 2 | 5 | **1044590000** |
| HDC DG 06B | 3 | 5 | **1044610000** |
| HDC DG 10B | 4 | 5 | **1044620000** |
| HDC DG 16A | 5 | 5 | **1044600000** |
| HDC DG 16B | 6 | 5 | **1044630000** |
| HDC DG 32A | 7 | 5 | **1044640000** |
| HDC DG 24B | 8 | 5 | **1044650000** |
| HDC DG 48A 32B | 9/10 | 5 | **1044660000** |
| HDC DG 48B | 12 | 5 | **1044670000** |

**Note:**
for bulkhead and coupling housings

### Ordering data

| Type | Size | Qty. | Order No. |
|---|---|---|---|
| HDC FLDG 04A | 1 | 5 | **1044480000** |
| HDC FLDG 10A | 2 | 5 | **1044490000** |
| HDC FLDG 06B | 3 | 5 | **1044500000** |
| HDC FLDG 10B | 4 | 5 | **1044510000** |
| HDC FLDG 16A | 5 | 5 | **1044520000** |
| HDC FLDG 16B | 6 | 5 | **1044530000** |
| HDC FLDG 32A | 7 | 5 | **1044540000** |
| HDC FLDG 24B | 8 | 5 | **1044550000** |
| HDC FLDG 32B | 10 | 5 | **1044560000** |
| HDC FLDG 48B | 12 | 5 | **1044570000** |
| HDC-HB10 AWVL FD | HB-10 AWVL 500 | | **1855680000** |

**Note:**
for bulkhead housings

### Ordering data

| Type | Size | Qty. | Order No. |
|---|---|---|---|
| HDC FLDG 04A AW IP68 | | 10 | **1987470000** |
| HDC FLDG 04A IP68 | | 10 | **1987450000** |
| HDC FLDG 06B IP68 | | 10 | **1987480000** |
| HDC FLDG 10B IP68 | | 10 | **1987500000** |
| HDC FLDG 16B IP68 | | 10 | **1987520000** |
| HDC FLDG 24B IP68 | | 10 | **1987540000** |
| HDC FLDG 24B XXL IP68 | | 10 | **1987550000** |
| HDC DG 04A IP68 | | 10 | **1987460000** |
| HDC DG 06B IP68 | | 10 | **1987490000** |
| HDC DG 10B IP68 | | 10 | **1987510000** |
| HDC DG 16B IP68 | | 10 | **1987530000** |
| HDC DG 24B IP68 | | 10 | **1525270000** |
| HDC DG 24B XXL IP68 | | 10 | **1987570000** |

## Protective transportation cap for IP65 housings

The protective transportation caps are available for sizes 3, 4, 6 and 8. They can be used with the IP65 standard housings. The transportation caps are easy to attach and provide IP20 protection. They can be used with all bottom housing sections, bulkhead housings or base housings. A lanyard (not included) can be threaded through the built-in eyelet.

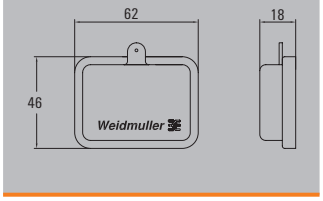
### Technical data

| | |
|---|---|
| Material | Polypropylene |
| UL94 | HB |
| Colour | white/transparent |
| Temperature range | –55 °C ... +110 °C |
| Class of protection | IP20 |

### Protective transportation cap for IP65 housings

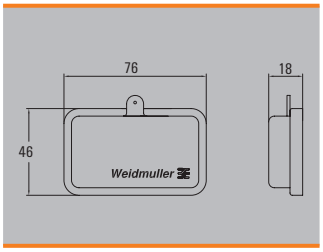
#### HDC 06B DC

| Type | Qty. | Order No. |
|---|---|---|
| HDC 06B DC | 10 | 1215900000 |




#### HDC 10B DC

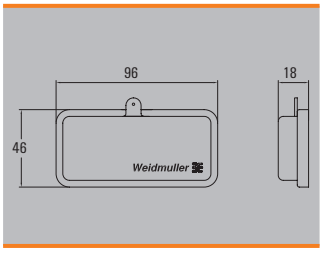
| Type | Qty. | Order No. |
|---|---|---|
| HDC 10B DC | 10 | 1215910000 |




#### HDC 16B DC



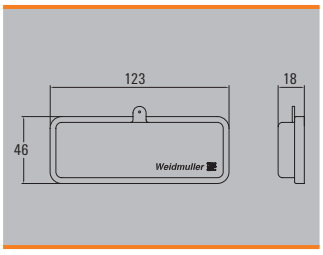
| Type | Qty. | Order No. |
|---|---|---|
| HDC 16B DC | 10 | 1215920000 |




#### HDC 24B DC



| Type | Qty. | Order No. |
|---|---|---|
| HDC 24B DC | 10 | 1215930000 |



## Hydraulic sheet holes

Incl. accessories:
- 1 hydraulic screw Ø 19 mm
- 1 hydraulic screw Ø 19 x 9.5 mm
- 1 HSS pre-drill Ø 10 mm
- 1 spacer nut set (3-part)
- 1 bridge

## IE-KO-HAT

- Pressure relief valve protects against overloading
- Cylinder head angled at 90°
- Angled head can be rotated through 360°
- Ergonomic handle springs back automatically
- The waste piece no longer becomes jammed thanks to 3-fold splitter
- Hydraulic punch made of high-strength aluminium (approx. 40% weight saving)
- Service life greatly reduced when stainless steel sheets are used

## KOK

- Rectangular splitting stamp for heavy-duty connectors

J

## Technical data

| | |
|---|---|
| **Maximum steel-sheet punching performance** | **IE-KO-HAT** |
| Round holes from 1 to Ø 85 mm | 2,0 mm F = 370 N/mm² |
| Round holes from 2 to Ø 64 mm | 3,0 mm F = 370 N/mm² |
| Square holes up to | 68 x 68 mm; 2.0 mm F = 370 N/mm² |
| Rectangular holes up to | 36 x 112 mm; 2,0 mm F = 370 N/mm² |
| **Maximum stainless steel sheet punching performance** | |
| Round holes from 3 to Ø 64 mm | 2.5 mm F = 600 N/mm² |
| **Tool data** | |
| Depth / Width / Height | 70 / 290 / 120 mm |
| Weight | 1.9 kg |
| Punching force | 75 kN |
| Max. operating pressure | 650 bar |
| **Note** | |

## Ordering data

| Version | Type | Qty. | Order No. |
|---|---|---|---|
| | IE-KO-HAT | 1 | **1966810000** |
| **Note** | | | |

| Type | Description | Qty. | Order No. |
|---|---|---|---|
| KOK 52 x 36 | 6-pole | 1 | **9204820000** |
| KOK 65 x 36 | 10-pole | 1 | **9204830000** |
| KOK 86 x 36 | 16-pole | 1 | **9204850000** |
| KOK 112 x 36 | 24-pole | 1 | **9204870000** |

## Accessories

| | Type | Qty. | Order No. |
|---|---|---|---|
| Tension bolt | KOHS 19 | 1 | **9205010000** |
| Tension bolts | KOHS 9.5+19 | 1 | **9205000000** |
| Pre-drill | KOPD 10.0 | 1 | **9205020000** |
| **Note** | Splitting stamp on the next page | | |

**Note:** the fastening points are centre-punched.

## Crimping tools for other contacts

- Ratchet for precise crimping
- Release option in the event of incorrect operation
- With end stop for exact positioning of the contacts

## CTX CM 1.6/2.5 / CTX CM 3.6

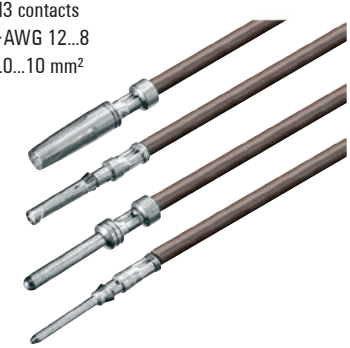
**0.14…10 mm²**

### CTX CM 1.6/2.5

- Turned HD contacts
- Turned HE contacts
- ~AWG 26…12
- 0.14…4.0 mm²

### CTX CM 3.6

- Turned HD contacts
- M3 contacts
- ~AWG 12…8
- 4.0…10 mm²



## CTIN CM 1.6/2.5 / CTIN 3.6

**0.14…10 mm²**

### CTIN CM 1.6/2.5

- Turned HD and HE contacts
- Turned HX contacts
- 4-indent crimp
- ~AWG 26…10
- 0.14…6.0 mm²

### CTIN CM 3.6

- Turned HX contacts
- M3 contacts
- 4-indent crimp
- ~AWG 16…8
- 1.5…10 mm²

## Technical data

| Description of contact | | CTX CM 1.6/2.5 | CTX CM 3.6 | CTIN CM 1.6/2.5 | CTIN CM 3.6 |
|---|---|---|---|---|---|
| Type of contact | | Turned contacts | Turned contacts | Turned contacts | Turned contacts |
| Crimping range | mm² | 0.14…4 | 4…10 | 0.14…6 | 1.5…10 |
| Crimping range 1 (with multiple crimping positions) | mm² | 0.14…0.5 | 4 | 0.14…6 | 1.5…10 |
| Crimping range 2 (with multiple crimping positions) | mm² | 0.75…1 | 6 | | |
| Crimping range 3 (with multiple crimping positions) | mm² | 1.5 | 10 | | |
| Crimping range 4 (with multiple crimping positions) | mm² | 2.5 | | | |
| Crimping range 5 (with multiple crimping positions) | mm² | 4 | | | |
| **Tool data** | | | | | |
| Length | mm | 250 | 250 | 230 | 230 |
| Weight | g | 730 | 730 | 1220 | 1220 |
| **Note** | | | | | |

## Ordering data

| Version | Type | Qty. | Order No. | Type | Qty. | Order No. |
|---|---|---|---|---|---|---|
| | CTX CM 1.6/2.5 | 1 | **9018490000** | CTIN CM 1.6/2.5 | 1 | **9205430000** |
| | CTX CM 1.6/2.5 ZERT | 1 | **9013690000** | | | |
| | CTX CM 3.6 | 1 | **9018480000** | CTIN CM 3.6 | 1 | **9205440000** |
| | CTX CM 3.6 ZERT | 1 | **1270320000** | | | |
| **Note** | A large selection of contacts can be found in our current Heavy-duty Connectors Catalogue | | | A large selection of contacts can be found in our current Heavy-duty Connectors Catalogue | | |

# Crimping

## Crimping tools for HighPower

### Crimping tools for HighPower 250 A / 550 A

**EPG 45 hydraulic battery crimping tool**

| Type | Order No. |
|---|---|
| EPG 45 | 1500830000 |

**Hexagonal crimp inserts for EPG 45**

| Ident. No. | CU mm² | Crimping width | Type | Order No. |
|---|---|---|---|---|
| 5 | 6 | 7 | ES MTR110 HEX 6 | 1500930000 |
| 6/16 | 10/70 | 7/5 | ES MTR110 HEX 10/70 | 1500940000 |
| 8/12 | 16/35 | 12/10 | ES MTR110 HEX 16/35 | 1500950000 |
| 10/14 | 25/50 | 12/5 | ES MTR110 HEX 25/50 | 1500970000 |
| 18 | 95 | 5 | ES MTR110 HEX 95 | 1500980000 |
| 20 | 120 | 5 | ES MTR110 HEX 120 | 1500990000 |
| 22 | 150 | 5 | ES EPG 45 HEX 150 | 1994540000 |

**APG 80 hydraulic battery crimping tool**

| Type | Order No. |
|---|---|
| APG 80 | 1502390000 |

**Hexagonal crimp inserts for APG 80**

| Ident. No. | CU mm² | Crimping width | Type | Order No. |
|---|---|---|---|---|
| 5 | 6 | 7 | ES APG/HPG80 HEX 6 | 1502600000 |
| 6 | 10 | 7 | ES APG/HPG80 HEX 10 | 1502620000 |
| 8 | 16 | 12 | ES APG/HPG80 HEX 16 | 1502630000 |
| 10 | 25 | 12 | ES APG/HPG80 HEX 25 | 1502640000 |
| 12 | 35 | 12 | ES APG/HPG80 HEX 35 | 1502650000 |
| 14 | 50 | 12 | ES APG/HPG80 HEX 50 | 1502670000 |
| 16 | 70 | 12 | ES APG/HPG80 HEX 70 | 1502680000 |
| 18 | 95 | 10 | ES APG/HPG80 HEX 95 | 1502690000 |
| 20 | 120 | 10 | ES APG/HPG80 HEX 120 | 1502700000 |
| 22 | 150 | 5 | ES APG/HPG80 HEX 150 | 1502720000 |
| 25 | 185 | 5 | ES APG/HPG80 HEX 185 | 1502730000 |
| 28 | 240 | 5 | ES APG/HPG80 HEX 240 | 1502740000 |
| 32 | 300 | 7 | ES APG/HPG80 HEX 300 | 1502750000 |

## HTX-HDC/POF

**POF crimping**

Crimping of „polymer optical fibre" (POF) fibre-optical contacts.
- For plug and socket
- Ratchet for precise crimping
- Unlocks in case of incorrect operation
- Locator for precise contact positioning

**Contacts:**
- Fibre-optic cable HD contact socket for Ø1.0 mm POF
- Fibre-optic cable HD contact pin for Ø 1.0 mm POF

### Ordering data

| Type | Qty. | Order No. |
|---|---|---|
| HTX-HDC/POF | 1 | 9010950000 |

### Technical data

| | |
|---|---|
| Length | 200 mm |
| Weight | 438 g |

## PB LWL/POF / PS LWL/POF

**POF polishing**

For processing the cut surface of fibre-optic cables with polymer optical fibre (POF).
- Buffing disc (PS LWL/POF)
- Buffing sheet (PB LWL/POF)

### Ordering data

| Type | Qty. | Order No. |
|---|---|---|
| PB LWL/POF | 1 | 9020400000 |
| PS LWL/POF | 1 | 9020390000 |

## AM LWL/POF

**POF stripping**

Stripping fibre-optic cables. Fibre-optic cable with polymer optical fibres (POF).
- Longitudinal stop with scale is built into the tool
- Stripping direction is lengthwise to the fibre
- No damage to the optical fibre

### Ordering data

| Type | Qty. | Order No. |
|---|---|---|
| AM LWL/POF | 1 | 9020360000 |

## LWL-stripax

Stripping and cutting tool for plastic fibre-optic cables with 1 mm diameter inner conductor
- Stripping length adjustable via end stop
- Automatic opening of the clamping jaws after stripping

### Ordering data

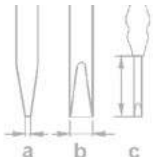
| Type | Qty. | Order No. |
|---|---|---|
| M-D-STRIPAX LWL | 1 | 9003750000 |

### Technical data

| Max. stripping performance | M-D-STRIPAX LWL |
|---|---|
| Cable type | POF conductor with an inner conductor of 1 mm Ø |
| Conductor diameter - | ...1 |
| Stripping length, max. - | 7.5 |
| **Tool data** | |
| Length mm | 135 |
| Weight g | 110 |
| **Note** | POF: polymer optical fibre |

# Screwdrivers

## Uninsulated torque screwdrivers




### DMS manual

Torque screwdriver
EN ISO 6798, BS EN 26789, ASME B107.14M

| Type | Size / AF | a | b | c | Order No. |
|---|---|---|---|---|---|
| DMS MANUELL 0,5-1,7 | | | | | 9918370000 |
| DMS MANUELL 2,0-7,0 | | | | | 9918380000 |

### WK S

Interchangeable bits for torque screwdrivers
Drive output acc. to DIN 5264, ISO 2380/1

| | | | | |
|---|---|---|---|---|
| WK S 0,4x2,5 | 0.4 | 2.5 | 175 | 9918520000 |
| WK S 0,5x3,0 | 0.5 | 3 | 175 | 9918530000 |
| WK S 0,6x3,5 | 0.6 | 3.5 | 175 | 9918540000 |
| WK S 0,8x4,0 | 0.8 | 4 | 175 | 9918550000 |
| WK S 1,0x5,5 | 1 | 5.5 | 175 | 9918560000 |

### WK K PZ (10)

Interchangeable bits for torque screwdrivers
Drive output acc. to DIN 5260-PZ, ISO 8764/1-PZ

| | | | |
|---|---|---|---|
| WK K PZ0 | 175 | | 9918600000 |
| WK K PZ1 | 175 | | 9918610000 |
| WK K PZ2 | 175 | | 9918620000 |

### WK K PH

Interchangeable bits for torque screwdrivers
Drive output acc. to DIN 5260-PH, ISO 8764/1-PH

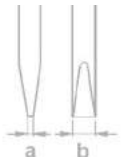
| | | | |
|---|---|---|---|
| WK K PH0 | 175 | | 9918570000 |
| WK K PH1 | 175 | | 9918580000 |
| WK K PH2 | 175 | | 9918590000 |

### WGK 1/4 C.6.3 E6.3

Interchangeable bit with bit holder for torque screwdrivers
Drive output: 1/4" C6.3 and 1/4" E6.3

| | | | |
|---|---|---|---|
| WK 1/4 C6,3 E6,3 | | | 9202510000 |

## VDE-insulated torque screwdrivers




| Type | Size / AF | a | b | Order No. |
|---|---|---|---|---|

### VDE-insulated torque screwdrivers

VDE-insulated torque screwdriver
EN ISO 6798, BS EN 26789, ASME B107.14M

| | | | | |
|---|---|---|---|---|
| DMSI MANUELL 0,5-1,7 | | | | 9918390000 |
| DMSI MANUELL 2,0-7,0 | | | | 9918400000 |

### Bit holder

| | | | | |
|---|---|---|---|---|
| WK I SLIM BIT | | | | 2489300000 |

### VDE slimBit Schlitz

| | | | | |
|---|---|---|---|---|
| WB SI SL 0,8x4,0 | | 0.8 | 4 | 2433190000 |
| WB SI SL 0.4X2.5 | | 0.4 | 2.5 | 2433160000 |
| WB SI SL 0.5X3.0 | | 0.5 | 3 | 2433170000 |
| WB SI SL 0.6X3.5 | | 0.6 | 3.5 | 2433180000 |
| WB SI SL 1,0x5,5 | | 1 | 5.5 | 2433200000 |

### VDE slimBit Phillips

| | | | | |
|---|---|---|---|---|
| WB IK SL PH1 | | | | 2433210000 |
| WB IK SL PH2 | | | | 2433220000 |

### VDE slimBit Pozidrive PZ

| | | | | |
|---|---|---|---|---|
| WB IK SL PZ1 | | | | 2433230000 |
| WB IK SL PZ2 | | | | 2433240000 |

### VDE slimBit Torx

| | | | | |
|---|---|---|---|---|
| WB I T10 | | | | 2506000000 |
| WB I T15 | | | | 2506010000 |
| WB I T20 | | | | 2506020000 |

### VDE slimBit Robertson

| | | | | |
|---|---|---|---|---|
| WB I VK 1 | | | | 2506030000 |
| WB I VK 2 | | | | 2506040000 |

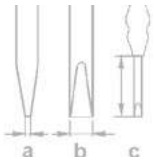
### VDE slimBit Hex

| | | | | |
|---|---|---|---|---|
| WB I SK 2.5 | | | | 2506050000 |
| WB I SK 3 | | | | 2506060000 |
| WB I SK 4 | | | | 2506070000 |
| WB I SK 5 | | | | 2506080000 |

## Screwdrivers

### Uninsulated screwdrivers

Weidmüller SoftFinish®screwdriver for general applications. Bit made from fully hardened, high-alloy chromium-vanadium-molybdenum steel, matt-chrome finish.




### SD S

Slotted screwdriver with rounded blade, SD DIN 5265, ISO 2380/2, drive output acc. to DIN 5264, ISO 2380/1, ChromTop tip, SoftFinish®grip

| Type | Blade type | Size / AF | a | b | c | Order No. |
|---|---|---|---|---|---|---|
| SDS 0.4X2.0X60 | B | | 0.4 | 2 | 60 | **9037160000** |
| SDS 0.4X2.5X75 | A | | 0.4 | 2.5 | 75 | **9009030000** |
| SDS 0.5X3.0X80 | A | | 0.5 | 3 | 80 | **9008320000** |
| SDS 0.6X3.5X100 | A | | 0.6 | 3.5 | 100 | **9008330000** |
| SDS 0.6X3.5X200 | A | | 0.6 | 3.5 | 200 | **9010110000** |
| SDS 0.8X4.0X100 | A | | 0.8 | 4 | 100 | **9008340000** |
| SDS 0.8X4.5X125 | A | | 0.8 | 4.5 | 125 | **9009020000** |
| SDS 1.0X5.5X150 | A | | 1 | 5.5 | 150 | **9008350000** |
| SDS 1.2X6.5X150 | A | | 1.2 | 6.5 | 150 | **9009010000** |

### SDK PH

Crosshead screwdriver, Phillips, SDK PH DIN 5262,
ISO 8764/2-PH, drive output acc. to ISO 8764-PH, chrome top tip, SoftFinish®grip

| | | | | | | |
|---|---|---|---|---|---|---|
| SDK PH0 | | | | 3 | 60 | **9008470000** |
| SDK PH1 | | | | 4.5 | 80 | **9008480000** |
| SDK PH2 | | | | 6 | 100 | **9008490000** |
| SDK PH3 | | | | 8 | 150 | **9008500000** |

### SDK PZ

Crosshead screwdriver, Pozidriv, SDK PZ DIN 5262,
ISO 8764/2-PZ, drive output acc. to ISO 8764-PZ, chrome top tip, SoftFinish®grip

| | | | | | | |
|---|---|---|---|---|---|---|
| SDK PZ1 | | | | 4.5 | 80 | **9008530000** |
| SDK PZ2 | | | | 6 | 100 | **9008540000** |

### SD TH

Torx® TH screwdriver with hole in tip of blade (tamper-resistant), SD TH for screwing Torx® and Torx®TH security screws (pin in centre of Torx® recess), ChromTop tip, SoftFinish®grip

| | | | | | | |
|---|---|---|---|---|---|---|
| SD TH10 | | | | 4 | 80 | **9009180000** |
| SD TH15 | | | | 4 | 80 | **9009170000** |
| SD TH20 | | | | 4 | 100 | **9009160000** |

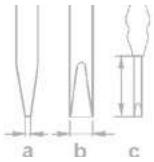
### SD 0.6x3.5x60 pico

Weidmüller precision screwdriver for great applications

| | | | | | | |
|---|---|---|---|---|---|---|
| SD 0,6x3,5x60 pico | | | 0.6 | 3.5 | 60 | **9918110000** |

## Uninsulated screwdrivers

SoftFinish® Screwdriverfrom Weidmüller for general use. Blade, bit made from fully hardened, high-alloy chromium-vanadium molybdenum steel, gun-metal finish.




### Set S 2.5/3.0/4.0/5.5/PH 1/2

6-piece set: slotted and crosshead PH screwdriver set with circular blades

| Type | Blade type | Size / AF | a | b | c | Order No. |
|---|---|---|---|---|---|---|
| SDS 0.4X2.5X75 | A | | 0.4 | 2.5 | 75 | |
| SDS 0.5X3.0X80 | A | | 0.5 | 3 | 80 | |
| SDS 0.8X4.0X100 | A | | 0.8 | 4 | 100 | |
| SDS 1.0X5.5X150 | A | | 1 | 5.5 | 150 | |
| SDK PH1 | | | | 4.5 | 80 | |
| SDK PH2 | | | | 6 | 100 | |
| SD Set S2.5-5.5/PH1/2 | | | | | | **9009740000** |

### Set S 2.0/2.5/3.0/3.5/4.0/5.5

6-piece set: slotted screwdriver set

| | | | | | | |
|---|---|---|---|---|---|---|
| SDS 0.4X2.0X60 | B | | 0.4 | 2 | 60 | |
| SDS 0.4X2.5X75 | A | | 0.4 | 2.5 | 75 | |
| SDS 0.5X3.0X80 | A | | 0.5 | 3 | 80 | |
| SDS 0.6X3.5X100 | A | | 0.6 | 3.5 | 100 | |
| SDS 0.8X4.0X100 | A | | 0.8 | 4 | 100 | |
| SDS 1.0X5.5X150 | A | | 1 | 5.5 | 150 | |
| SD Set S2.0-5.5 | | | | | | **9205560000** |

### SD TO 0,6x3,0

Angled slotted screwdriver with round handle, SoftFinish®grip

| | | | | | | |
|---|---|---|---|---|---|---|
| SD TO 0,6X3,0 | A | | 0.6 | 3 | 70 | **1323880000** |

J

## Screwdrivers

### Weidmüller wrench set

Socket wrench manufactured from through-hardened chromium-vanadium steel, manufactured according to DIN ISO 2936 L (DIN 911), high-quality finished surface.

### SK WSD S

9-piece offset screwdriver set in the Prostar, with MagicRing:
tightly holds standard screws in any position thanks to its spring steel ring (up to size 3), with ball head for screwing up to an angle of 25°.

| Type | Size / AF | a | b | c | Order No. |
|---|---|---|---|---|---|
| | 1.5 | | | | |
| | 2 | | | | |
| | 2.5 | | | | |
| | 3 | | | | |
| | 4 | | | | |
| | 5 | | | | |
| | 6 | | | | |
| | 8 | | | | |
| | 10 | | | | |
| SK WSD-S 1,5-10,0 | | | | | **9008850000** |

### SK S

7-piece Allen key set

| | | | | | |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| SKS 2,0-8,0 | | | | | **9008860000** |

### SK S MR

7-piece Allen key set with ball head and MagicRing: holds standard screws (size 3 and larger) in any position thanks to its spring steel ring,
with ball head for screwing up to an angle of 25°.

| | | | | | |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| SKS 2,0-8,0 MR | | | | | **9008870000** |

### TH S

8-piece Torx®-TH Allen key set with hole in the bit tip (tamper-resistant), for screwing Torx® and Torx®-TH security screws (pin in centre of Torx® recess)

| | | | | | |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| TH-S 9-40 | | | | | **9008880000** |

## Removal Tool CM3, HD

**Removal Tool HD**

**CM3 Removal Tool**
Contact release tool for freeing CM3 crimp contacts.
**HD Removal Tool**
Contact release tool for freeing crimp contacts in the Concept CM10 module

### Ordering data

| Type | Qty. | Order No. |
|---|---|---|
| REMOVAL TOOL HD | 1 | 1866730000 |
| Removal Tool CM 3 | 1 | 1866710000 |

## Removal Tool HE

Contact release tool for the ConCept HE module and for releasing crimp contacts in the ConCept CM4 module

### Ordering data

| Type | Qty. | Order No. |
|---|---|---|
| Removal Tool HE | 1 | 1866750000 |

## Removal Tool HX

Contact release tool for removing HX contacts

### Ordering data

| Type | Qty. | Order No. |
|---|---|---|
| Removal Tool HX | 1 | 1002990000 |

## Removal Tool MHP

Contact release tool for removing ModuPlug MHP100 contacts.

### Ordering data

| Type | Qty. | Order No. |
|---|---|---|
| Removal Tool MHP | 1 | 1480380000 |

## Removal Tool MHP200

Contact release tool for removing ModuPlug MHP200 contacts

### Ordering data

| Type | Qty. | Order No. |
|---|---|---|
| Removal Tool MHP200 | 1 | 2617240000 |

## Replacement sleeve for contact release tool

### Ordering data

| Type | Qty. | Order No. |
|---|---|---|
| HUELSE REMOVAL TOOL HD | 5 | 1044100000 |
| HÜLSE REMOVAL TOOL CM 3 | 5 | 1044080000 |

## CA 100/10

**4...10 mm²**

The CA 100/10 is an electropneumatic powered automatic stripper and crimper for time-saving and rational processing of loose wire-end ferrules.It has been developed for the assembly of medium series cables in stationary areas.The automatic machines feature quick and easy handling.

- Stripping and crimping in one operation
- Electropneumatic drive
- Stripping and crimping in a range of 4 to 10 mm² (AWG 12 – 8)
- Processing of wire-end ferrules of various lengths
- Quick and easy retooling
- Oscillating conveyor to hold loose wire-end ferrules

### Technical data

| | CA 100/10 |
|---|---|
| Crimping range | 4 ... 10 mm² (with usage of the respective tool set) |
| Crimping lengths | 6...18 mm |
| Connection | 220 V / 50 Hz |
| Drive | Electropneumatic |
| Compressed-air connection | 5 bar |
| Pulse time | approx. 2.5 sec. |
| Crimping | Trapezoidal crimp |
| Dimensions W x D x H (mm) | 530 x 400 x 460 |
| Weight | 40 kg |
| Options | Quadrocrimp tool: for a perfectly square four-sided crimp |

The CA 100 can be converted to a wire cross-section between 0.14 and 2.5 or 4 and 10 mm².

### Ordering data

| Type | Qty. | Order No. |
|---|---|---|
| CA 100/10 | 1 | on request |

### Note on ordering

In order to precisely determine the required conversion tool, you will need the exact specifications for both the wire-end ferrules being processed and the cables being processed.

We can send you a detailed offer upon request.

## CA 4/8 Indent

**0.34 ... 2.5 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 0.34 ... 2.5 mm² range (AWG 22 to 14) can be crimped normally with a 4/8 indent crimp shape, in compliance with MIL C-22520/1-01. The settings for stripping and crimp depth are motor- driven. The values can be saved in 50 different programs. The keyboard is used for configuration and programming. Important data, functions and errors are shown on the LCD display. With the help of the appropriate tools, the automatic crimper may be converted to various contacts and/or conductors. It was developed for preparing conductors in medium-batch series for stationary use. The automatic machine can be operated quickly and easily.

- Stripping and crimping in one operation
- Electro-pneumatic drive
- Strips and crimps 0.34 ... 2.5 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

### Technical data

| | CA 4/8 Indent |
|---|---|
| Stripping range | 0.34 ... 2.5 mm² |
| Connection | 220 V / 50 Hz / 115 VA |
| Drive | pneumatic |
| Compressed air connection | 5 bar |
| Processing time | approx. 2,5 s |
| Size W x D x H | 450 x 490 x 420 |
| Weight | 40 kg |

### Ordering data

| Type | Qty. | Order No. |
|---|---|---|
| CA 4/8 Indent | 1 | on request |

### Note on ordering

The machine is set up using sample contacts to suit the user's requirements. For this we need the name of the manufacturer, the type designation and the cross-sections of the contacts.

Detailed quotation available on request.

# Cable glands

Weidmüller offers a variety of add-on components for a multitude of purposes and applications in addition to its extensive Klippon® Protect range.

In addition to brass, plastic and stainless steel cable glands, there are also sealing plugs, pressure-equalising elements, adapters and relevant accessories – such as lock nuts, flat gaskets, flat washers and earthing rings – available.

To match the assembled enclosures, the cable glands meet the requirements of IP protection classes IP54 to IP69K and can be used as required in standard industrial applications, EMC applications or even explosive risk zones, plus they comply with the approvals required for this purpose.

The Ex-certified Klippon® cable glands also enable the connection of braided and shielded reinforcements with and without lead sheathing as well as the connection of steel wire and steel tape cables and conductors. They can withstand temperatures ranging from –60°C to +180°C.

Depending on the cable gland variants and application, the cable glands, sealing plugs, adaptors, pressure-equalising elements and accessories are manufactured and certified according to the following standards:

- IEC/EN 62444 (Construction and design)
- IEC/EN 60529 (IP protection class testing)
- IEC/EN 60079-0 (General ATEX standard)
- IEC/EN 60079-1 (Ex d ATEX standard)
- IEC/EN 60079-7 (Ex e ATEX standard)
- IEC/EN 60079-11 (Ex i ATEX standard)
- IEC/EN 60423 (Metric thread)
- DIN 40430 (PG and NPT threads)

The range of cable glands, sealing plugs and pressure-equalising elements is available in metric (M) and high-strength (PG) threads in sizes ranging from M12 to M75 and PG7 to PG48. When choosing cable glands and sealing plugs, please refer to the table with the sealing characteristics of the O-rings, flat gaskets and seal inserts. The O-Ring or flat gasket is always intended for sealing the connecting thread on an enclosure, for example, while the seal insert of each cable gland is intended for actually sealing and crushing the connecting cable.

You should always observe the maximum drill-hole diameter when installing a cable gland, sealing plug, adaptor, or pressure compensation element (e.g. onto the gland plate of an enclosure). These must not exceed the following specified maximum values / tolerances so that the protection degree of the whole enclosure can be guaranteed.
Please also refer to the instruction manual; deviating information is possible.

## Through-hole information

| M thread | Through-hole, in mm |
|---|---|
| M 12 | 12.2 |
| M 16 | 16.2 |
| M 20 | 20.2 |
| M 25 | 25.2 |
| M 32 | 32.2 |
| M 40 | 40.2 |
| M 50 | 50.2 |
| M 63 | 63.2 |
| M 75 | 75.2 |
| **PG thread** | **Through-hole, in mm** |
| PG 7 | 12.4 |
| PG 9 | 15.1 |
| PG 11 | 18.5 |
| PG 13.5 | 20.4 |
| PG 16 | 22.5 |
| PG 21 | 28.3 |
| PG 29 | 37.4 |
| PG 36 | 47.2 |
| PG 42 | 54.2 |
| PG 48 | 59.5 |

## Overview of sealing materials for O-rings, flat gaskets as well as seal inserts

| Abbreviation | Material | Trade name | Temperature range | Chemical resistance | Fire resistant | Shore | Free from halogens | UV resistance |
|---|---|---|---|---|---|---|---|---|
| **TPE** | Thermo-plastic elastomer | Santroprene | –40 °C to +130 °C | Hydrocarbons, oils, acids | UL94, HB | 64 | Yes | very good |
| **CR** | Chloroprene rubber | Neoprene | –40 °C to +130 °C | Mineral oils, greases, fuels | very good | 40 - 90 | No | very good |
| **NBR** | Nitrile rubber | Perbunan, Nitrile | –40 °C to +130 °C | Hydrocarbons, oils, acids, aliphatic solvents, greases, fuels | weak | 40 - 90 | No | good |
| **EPDM** | Ethylene-propylene-diene rubber | Keltan | –50 °C to +130 °C | Weather-, grease-, mineral oil-, chlorine-,and ozone resistant, hydrocarbons | weak | 20 - 90 | | very good |
| **FPM** | Fluoro-rubber | Viton | –25 °C to +200 °C | ozone, oxygen, mineral oils, synthetic hydraulic fluids, fuels, aromatics, many organic solvents and chemicals | weak | 65 - 95 | | good |

**Note:** The data refer only to the sealing material, not to the entire component.

## Abbreviations – technical data

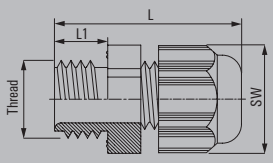
| | |
|---|---|
| A, L | Length in mm |
| L1 | Length of thread in mm |
| D | Diameter in mm |
| S | Thickness in mm |
| S1,S2 | Depth in mm |
| SW, SW1, SW2 | Distance across flats in mm |
| KB | Clamping range in mm |
| KB ZE | Clamping range strain relief in mm |
| Thread | External thread |
| SUHB | Shroud / Protective cap |
| DR | Tightening torque in Nm |
| HM | Cap nut / pressure screw |
| Qty. | Packing unit in pieces |

## Product designation

| | |
|---|---|
| VG | Cable gland |
| VP | Sealing plugs |
| KDSU | Klippon® Double Seal Universal |
| KDSW | Klippon® Double Seal for SWA |
| KDSX | Klippon® Double Seal for SWB/STA |
| KSG | Klippon® Standard Gland |
| KUB | Klippon® Universal Barrier |
| KSPA | Klippon® Stopping Plug Type A |
| KSPMH | Klippon® Stopping Plug Mushroom |
| KSWN | Klippon® Sealing Washer Nylon |
| KSWF | Klippon® Sealing Washer Red Fibre |
| KSP | Klippon® Shroud PVC/Silicone |
| SKMU | Hexagon nut |
| DAE | Pressure compensation element |
| BD | Breather drain (compensation element) |
| SZS | Serrated Star Washers |
| ZE | Strain relief |
| EMV | Electromagnetic compatibility |
| EA | Earthing ring |
| SKS | Spiral kink protection |
| GWDR | Threaded sealing ring or IP washer |

## Cable glands – Plastic – IP68

Cable gland made of plastic with integrated strain relief for industrial applications where IP67 or IP68 protection is required. Tested and approved according to EN 62444 and UL514B.




## Technical data

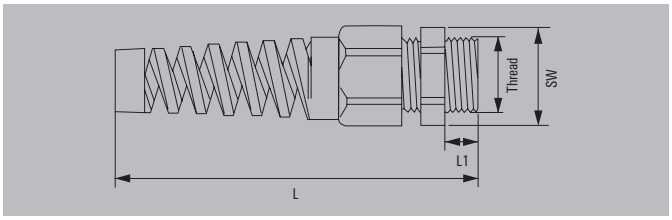
| | |
|---|---|
| Material / Colour | Polyamide 6 / Light Grey / RAL 7035 |
| Seal insert | CR |
| Temperature range | -40 °C...100 °C |
| Protection class | IP67, IP68 - 5 bar (30 min.) |
| Flammability rating | V-2 |
| **Note** | Version with moulded sealing lip.<br>Length L varies depending on the cable diameter used. |

## Ordering data

| Type | Thread | KB | L/L1 | SW | Qty. | Order No. |
|---|---|---|---|---|---|---|
| **metric** | | | | | | |
| VG M12-1/K68 | M 12 | 3-6.5 | 30.5 / 8 | 15 | 100 | **1772280000** |
| VG M16-1/K68 | M 16 | 4-8 | 34.5 / 8 | 19 | 50 | **1909860000** |
| VG M16 - K 68 | M 16 | 5-10 | 40 / 10 | 22 | 50 | **1772290000** |
| VG M20-1/K68 | M 20 | 6-12 | 39.5 / 10 | 24 | 50 | **1772300000** |
| VG M25-1/K68 | M 25 | 11-17 | 43 / 8 | 29 | 50 | **1909870000** |
| VG M25 - K 68 | M 25 | 13-18 | 47 / 10 | 33 | 25 | **1772310000** |
| VG M32-1/K68 | M 32 | 15-21 | 52 / 10 | 36 | 20 | **1909880000** |
| VG M32 - K 68 | M 32 | 18-25 | 56 / 15 | 42 | 20 | **1772320000** |
| VG M40-1/K68 | M 40 | 19-28 | 57 / 10 | 46 | 10 | **1909890000** |
| VG M40 - K 68 | M 40 | 22-32 | 69.5 / 18 | 53 | 10 | **1772330000** |
| VG M50 - K 68 | M 50 | 30-38 | 71 / 18 | 60 | 10 | **1772340000** |
| VG M63-1/K68 | M 63 | 34-44 | 71 / 18 | 65 | 10 | **1772350000** |
| **PG** | | | | | | |
| VG 7-K68 | PG 7 | 3-6.5 | 30 / 8 | 15 | 100 | **1568970000** |
| VG 9-K68 | PG 9 | 4-8 | 34.5 / 8 | 19 | 50 | **1568980000** |
| VG 11-K68 | PG 11 | 5-10 | 37 / 8 | 22 | 50 | **1568990000** |
| VG 13.5-K68 | PG 13.5 | 6-12 | 39 / 10 | 24 | 50 | **1569000000** |
| VG 16-K68 | PG 16 | 10-14 | 41 / 10 | 27 | 50 | **1569010000** |
| VG 21-K68 | PG 21 | 13-18 | 48 / 11 | 33 | 25 | **1569020000** |
| VG 29-K68 | PG 29 | 18-25 | 52 / 11 | 42 | 20 | **1569030000** |
| VG 36-K68 | PG 36 | 22-32 | 64.5 / 13 | 53 | 10 | **1569040000** |
| VG 42-K68 | PG 42 | 30-38 | 66.5 / 13 | 60 | 10 | **1569050000** |
| VG 48-K68 | PG 48 | 34-44 | 67.5 / 14 | 65 | 10 | **1718770000** |
| **Note** | | | | | | |

## Cable glands – Plastic – SKS

Cable gland made of plastic with spiral bending protection and integrated strain relief, specially suited for moving connections. It prevents cables from bending at acute angles.




## Technical data

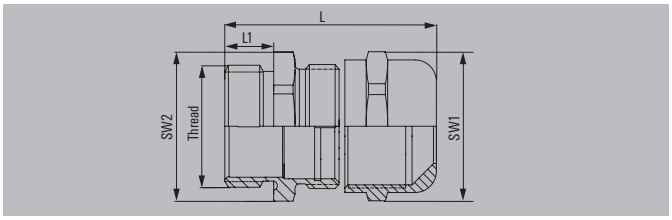
| | |
|---|---|
| Material / Colour | Polyamide 6 / Light Grey / RAL 7035 |
| Seal insert | CR |
| Temperature range | -20 °C...100 °C |
| Protection class | IP68 - 5 bar (30 min.) |
| Flammability rating | V-2 |
| **Note** | Version with moulded sealing lip<br>Length L varies depending on the cable diameter used. |

## Ordering data

| Type | Thread | KB | L/L1 | SW | Qty. | Order No. |
|---|---|---|---|---|---|---|
| **metric** | | | | | | |
| VG M12-K68 SKS | M 12 | 3-6.5 | 63.5 / 8 | 15 | 100 | **1776700000** |
| VG M16-K68 SKS | M 16 | 5-10 | 94.5 / 15 | 22 | 50 | **1776710000** |
| VG M20-K68 SKS 6-12 | M 20 | 6-12 | 101.5 / 11 | 24 | 50 | **1778860000** |
| VG M20-K68 SKS 10-14 | M 20 | 10-14 | 116 / 15 | 27 | 25 | **1776720000** |
| VG M25-K68 SKS | M 25 | 13-18 | 132.5 / 15 | 33 | 25 | **1776730000** |
| **PG** | | | | | | |
| VG 7-K68 SKS | PG 7 | 3-6.5 | 63 / 8 | 15 | 50 | **1720470000** |
| VG 9-K68 SKS | PG 9 | 4-8 | 74 / 8 | 19 | 50 | **1720480000** |
| VG 11-K68 SKS | PG 11 | 5-10 | 87 / 8 | 22 | 100 | **1720490000** |
| VG 13.5-K68 SKS | PG 13.5 | 6-12 | 98 / 9 | 24 | 50 | **1720500000** |
| VG 16-K68 SKS | PG 16 | 10-14 | 112 / 10 | 27 | 25 | **1720510000** |
| VG 21-K68 SKS | PG 21 | 13-18 | 130 / 11 | 33 | 20 | **1720520000** |

## Cable glands – Brass – IP68

Cable gland made of brass for industrial applications where IP68 or IP69K protection is required.




### Technical data

| | |
|---|---|
| Material | Brass, nickel-plated |
| O-ring / Seal insert | NBR / CR |
| Temperature range | -40 °C...100 °C |
| Clamp insert | Polyamide |
| Protection degree with GWDR | IP54, IP66, IP67, IP68 - 5 bar (30 min.), IP69K |
| **Note** | Length "L" varies depending on the cable diameter used; IP69K protection applies to all metric cable glands; the following thread sizes are excluded from IP69K: PG29, PG36, PG42 and PG48. |

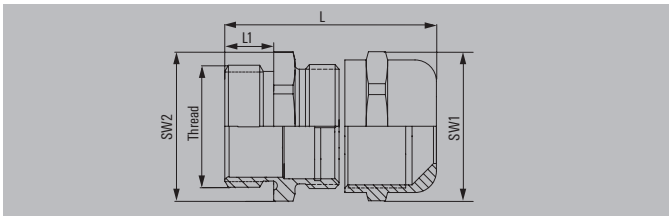
### Ordering data

| Type | Thread | KB | L/L1 | SW1/SW2 | Qty. | Order No. |
|---|---|---|---|---|---|---|
| **metric** | | | | | | |
| VG M12 - MS 68 | M 12 | 3-6.5 | 28 / 6 | 14 / 14 | 50 | **1772200000** |
| VG M16 - MS 68 | M 16 | 4-8 | 30 / 7 | 17 / 18 | 50 | **1772210000** |
| VG M16-1/MS68 | M 16 | 5-10 | 35.5 / 7 | 20 / 20 | 50 | **1909910000** |
| VG M20 - MS 68 | M 20 | 6-12 | 34.5 / 8 | 22 / 22 | 50 | **1772220000** |
| VG M25 - MS 68 | M 25 | 10-14 | 35.7 / 8 | 24 / 27 | 25 | **1772230000** |
| VG M25-1/MS68 | M 25 | 11-17 | 40.5 / 8 | 27 / 27 | 25 | **1909920000** |
| VG M32 - MS 68 | M 32 | 13-18 | 42 / 9 | 30 / 34 | 10 | **1772240000** |
| VG M32-1/MS68 | M 32 | 15-21 | 44 / 8 | 34 / 34 | 10 | **1909930000** |
| VG M40 - MS 68 | M 40 | 18-25 | 47 / 9 | 40 / 43 | 10 | **1772250000** |
| VG M40-1/MS68 | M 40 | 19-28 | 52.5 / 9 | 43 / 43 | 10 | **1909940000** |
| VG M50 - MS 68 | M 50 | 22-32 | 57 / 9 | 50 / 55 | 5 | **1772260000** |
| VG M50-1/MS68 | M 50 | 27-38 | 61 / 9 | 58 / 58 | 5 | **1909950000** |
| VG M63 - MS 68 | M 63 | 34-44 | 67 / 14 | 64 / 68 | 5 | **1772270000** |
| **PG (IP69K)** | | | | | | |
| VG 7-MS68 | PG 7 | 3-6.5 | 28 / 6 | 14 / 14 | 50 | **1569060000** |
| VG 9-MS68 | PG 9 | 4-8 | 29.5 / 6 | 17 / 17 | 50 | **1569070000** |
| VG 11-MS68 | PG 11 | 5-10 | 32 / 6 | 20 / 20 | 50 | **1569080000** |
| VG 13,5-MS68 | PG 13.5 | 6-12 | 31 / 6.5 | 22 / 22 | 50 | **1569090000** |
| VG 16-MS68 | PG 16 | 10-14 | 34.5 / 6.5 | 24 / 24 | 25 | **1569100000** |
| VG 21-MS68 | PG 21 | 13-18 | 39.7 / 7.2 | 30 / 30 | 25 | **1569110000** |
| **PG (IP68)** | | | | | | |
| VG 29-MS68 | PG 29 | 18-25 | 46.5 / 8 | 40 / 40 | 10 | **1569120000** |
| VG 36-MS68 | PG 36 | 22-32 | 57 / 9 | 50 / 50 | 5 | **1569130000** |
| VG 42-MS68 | PG 42 | 30-38 | 60.5 / 12 | 58 / 58 | 5 | **1569140000** |
| VG 48-MS68 | PG 48 | 34-44 | 69 / 14 | 64 / 64 | 5 | **1718790000** |

## Cable glands – Brass – IP68

EN 45545

Cable gland made of brass with spherical sealing insert which squeezes the cable gently over a large area. This cable gland is suitable for railway applications; its sealing material conforms to the requirements of EN 45545.




### Technical data

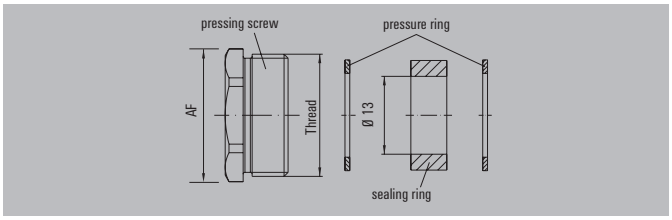
| | |
|---|---|
| Material | Brass, nickel-plated |
| O-Ring / Seal insert | NBR / T80s |
| Temperature range | -40 °C ... 130 °C |
| Protection class | IP68 - 15 bar |
| **Note** | |

### Ordering data

| Type | Thread | KB | L/L1 | SW | Qty. | Order No. |
|---|---|---|---|---|---|---|
| VGM25-MS68 11-20 BG | M 25 | 11-20 | 36.5 / 7.5 | 30 | 50 | **1193600000** |
| VGM32-MS68 15-25 BG | M 32 | 15-25 | 40 / 8 | 36 | 25 | **1193610000** |
| VGM40-MS68 20-32 BG | M 40 | 20-32 | 43 / 8 | 45 | 10 | **1193620000** |
| VGM40/1-MS68 20-32 BG | M 40 | 20-32 | 82 / 8 | 45 | 10 | **1205890000** |

## Clamping screws – Brass – IP65

The special cable glands (clamping screws) are designed for use in HDC RockStar® base enclosures. The seal insert used contains several removable or separable inlets.




## Technical data

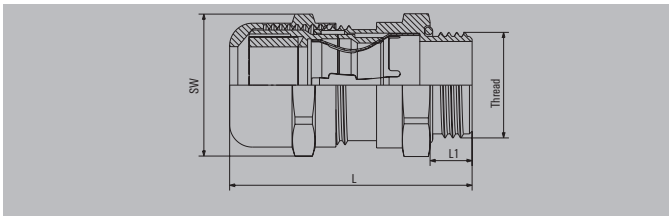
| | |
|---|---|
| Clamping screw material | Brass, nickel-plated |
| Sealing ring material | SBR/NBR |
| Pressure ring material | Polyamide |
| Temperature range | -20 °C...60 °C |
| Protection class | IP65 |
| **Note** | |

## Ordering data

| Type | Thread | Inserts in mm | SW | Qty. | Order No. |
|---|---|---|---|---|---|
| **metric** | | | | | |
| VG H M20 MS | M 20 | 4 / 7 / 10 / 13 | 20 | 50 | **1921720000** |
| VG H M25 MS | M 25 | 8.5 / 11.5 / 14.5 / 18 | 25 | 25 | **1921740000** |
| VG H M32 MS | M 32 | 16 / 19 / 22 / 25 | 32 | 20 | **1921760000** |
| VG H M40 MS | M 40 | 23 / 26 / 29 / 32 | 40 | 10 | **1921770000** |
| **PG** | | | | | |
| KV 11-M | PG 11 | 7.5 / 10 / 12.5 | 10 | 10 | **1656390000** |
| KV 13-M | PG 13 | 7.5 / 10 / 12.5 | 10 | 10 | **1656400000** |
| KV 16-M | PG 16 | 7.5 / 10 / 12.5 / 15 | 10 | 10 | **1656410000** |
| KV 21-M | PG 21 | 10 / 13 / 16 / 19 | 10 | 10 | **1656420000** |
| KV 29-M | PG 29 | 18 / 21 / 24 / 27 | 10 | 10 | **1656430000** |
| **Note** | | | | | |

## Cable glands – Brass – EMC–4

Cable gland made of brass with EMC contact system for the particularly time-saving installation of shielded cables. It is characterised by the following features: very low installation effort, vibration-resistant and patented active contact system.




### Technical data

| | |
|---|---|
| Material | Brass, nickel-plated |
| O-Ring / Seal insert | NBR / CR |
| Temperature range | -40 °C...100 °C |
| Protection class | IP66, IP68 - 5 bar (30 min.), IP69K |
| Clamp insert | Polyamide |
| **Note** | |

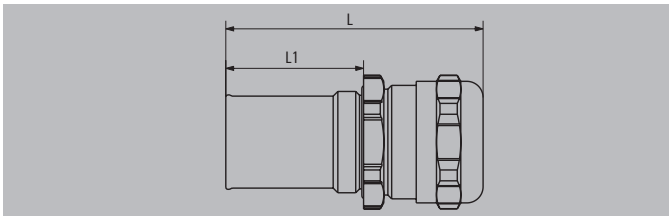
### Ordering data

| Type | Thread | KB | Shield Ø | L/L1 | SW | Qty. | Order No. |
|---|---|---|---|---|---|---|---|
| VG M12 EMV-4 MS 3-6.5 | M 12 | 3-6.5 | 2.00-5.00 | 34 / 6 | 14 | 50 | **2435070000** |
| VG M16 EMV-4 MS 5-10 | M 16 | 5-10 | 3.50-8.00 | 39 / 6 | 20 | 50 | **2435140000** |
| VG M20 EMV-4 MS 6-12 | M 20 | 6-12 | 4.50-10.00 | 38 / 6 | 22 | 50 | **2435150000** |
| VG M20 EMV-4 MS 8-14 | M 20 | 7.5-14 | 5.50-11.50 | 48 / 8 | 24 | 50 | **2435160000** |
| VG M25 EMV-4 MS 10-18 | M 25 | 10-18 | 7.00-14.00 | 51 / 8 | 30 | 25 | **2435170000** |
| VG M32 EMV-4 MS 16-25 | M 32 | 16-25 | 12.00-20.00 | 62 / 9 | 40 | 10 | **2435180000** |
| VG M40 EMV-4 MS 22-32 | M 40 | 22-32 | 18.00-27.00 | 69.5 / 9 | 50 | 5 | **2435190000** |
| VG M50 EMV-4 MS 30-38 | M 50 | 30-38 | 26.00-34.00 | 62 / 9 | 58 | 5 | **2435200000** |
| VG M63 EMV-4 MS 34-44 | M 63 | 34-44 | 30.00-40.00 | 73 / 14 | 68 | 5 | **2435210000** |

## Cable glands – Brass – EMC SET

EN 45545

Cable gland made of brass for internal shield connection or potential equalisation; easy-to-use, permanent, secure shield connection. This cable gland is suitable for railway applications; its sealing material meets the requirements of EN 45545.




### Technical data

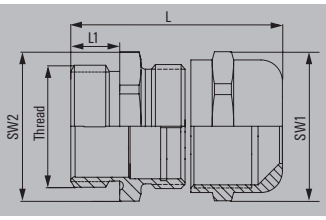
| | |
|---|---|
| Material | Brass, nickel-plated |
| O-Ring / Seal insert | NBR / T80s |
| Temperature range | -40 °C ... 130 °C |
| Protection class | IP68 - 15 bar |
| **Note** | |

### Ordering data

| Type | Thread | KB | L/L1 | SW | Qty. | Order No. |
|---|---|---|---|---|---|---|
| VGM25-MS68 EMC 11-20SET | M 25 | 11-20 | 63.5 / 34 | 30 | 1 | **1463720000** |
| VGM32-MS68 EMC 15-25SET | M 32 | 15-25 | 66.5 / 34 | 36 | 1 | **1463730000** |

## Cable glands – Stainless steel – IP68

Cable gland made of stainless steel for standard industrial applications that require a high degree of protection (IP68 or IP69K). These cable glands – with their resistance to impact and sea water – are also suitable for use in applications under extreme environmental conditions.




### Technical data

| | |
|---|---|
| Material | Stainless steel 1.4305 (303) |
| O-Ring / Seal insert | NBR / CR |
| Temperature range | -40 °C...100 °C |
| Protection class | IP54, IP66, IP67, IP68 - 5 bar (30 min.), IP69K |
| **Note** | |

### Ordering data

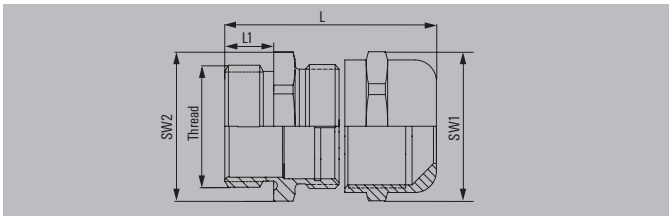
| Type | Thread | KB | L/L1 | SW1/SW2 | Qty. | Order No. |
|---|---|---|---|---|---|---|
| **metric** | | | | | | |
| VGM12-SS 68 KB 3-6.5 | M 12 | 3-6.5 | 28 / 6 | 14 / 14 | 50 | **1009840000** |
| VGM16-SS 68 KB 4-8 | M 16 | 4-8 | 30 / 7 | 17 / 19 | 50 | **1009850000** |
| VGM20-SS 68 KB 6-12 | M 20 | 6-12 | 32 / 8 | 22 / 22 | 50 | **1009860000** |
| VGM25-SS 68 KB 10-14 | M 25 | 10-14 | 35.5 / 8 | 24 / 27 | 25 | **1009870000** |
| VGM32-SS 68 KB 13-18 | M 32 | 13-18 | 41.5 / 9 | 30 / 36 | 20 | **1009880000** |
| VGM40-SS 68 KB 18-25 | M 40 | 18-25 | 49.6 / 9 | 41 / 46 | 20 | **1009890000** |
| VGM50-SS 68 KB 22-32 | M 50 | 22-32 | 55 / 9 | 50 / 55 | 5 | **1009900000** |
| VGM63-SS 68 KB 34-44 | M 63 | 34-44 | 67 / 14 | 65 / 70 | 5 | **1009910000** |
| **PG** | | | | | | |
| VG 7-SS 68 KB 3-6.5 | PG 7 | 3-6.5 | 28 / 6 | 14 / 14 | 50 | **1009740000** |
| VG 9-SS 68 KB 4-8 | PG 9 | 4-8 | 29 / 6 | 17 / 17 | 50 | **1009750000** |
| VG 11-SS 68 KB 5-10 | PG 11 | 5-10 | 31.5 / 6 | 22 / 22 | 50 | **1009760000** |
| VG 16-SS 68 KB 10-14 | PG 16 | 10-14 | 34 / 6.5 | 24 / 24 | 25 | **1009780000** |
| VG 21-SS 68 KB 13-18 | PG 21 | 13-18 | 39.7 / 7.2 | 30 / 30 | 25 | **1009790000** |
| VG 29-SS 68 KB 18-25 | PG 29 | 18-25 | 46.5 / 8 | 41 / 41 | 20 | **1009800000** |
| VG 36-SS 68 KB 22-32 | PG 36 | 22-32 | 55 / 9 | 50 / 50 | 15 | **1009810000** |

## Standard cable glands – Stainless steel

### Cable gland – Stainless steel – IP68

EN 45545

Cable gland with spherical seal insert that squeezes the cable gently over a large area. This cable gland is suitable for railway applications; its sealing material meets the requirements of EN 45545.




### Technical data

| | |
|---|---|
| Material | Stainless steel 1.4305 (303) |
| O-Ring / Seal insert | Silicone / T80s |
| Temperature range | -40 °C ... 130 °C |
| Protection class | IP68 - 15 bar |
| **Note** | |

### Ordering data

| Type | Thread | KB | L/L1 | SW | Qty. | Order No. |
|---|---|---|---|---|---|---|
| VGM25-SS68 11-20 BG | M 25 | 11-20 | 36.5 / 7.5 | 30 | 50 | **1193570000** |
| VGM32-SS68 15-25 BG | M 32 | 15-25 | 40 / 8 | 36 | 25 | **1193580000** |
| VGM40-SS68 20-32 BG | M 40 | 20-32 | 43 / 8 | 45 | 10 | **1193590000** |
| VGM40/1-SS68 20-32 BG | M 40 | 20-32 | 82 / 8 | 45 | 10 | **1205920000** |

## HQ cable glands

Cable gland especially for heavy-duty connectors of the HQ series, available in plastic, brass and as brass EMC version.

## Technical data

| | |
|---|---|
| Material | Polyamide 6 |
| Seal insert | TPE |
| Temperature range | -40 °C ... 130 °C |
| Protection class | IP68 |
| **Note** | |

## Ordering data

| Type | Thread | KB | SW | Qty. | Order No. |
|---|---|---|---|---|---|
| **Plastic** | | | | | |
| VG 16 HQ K68 4-6.5 | PG 16 | 4-6.5 | 27 | 1 | **2715990000** |
| VG 16 HQ K68 6.5-9.5 | PG 16 | 6.5-9.5 | 27 | 1 | **1273890000** |
| VG 16 HQ K68 9-13 | PG 16 | 9-13 | 27 | 1 | **1016070000** |
| VG 16 HQ K68 11.5-15.5 | PG 16 | 11.5-15.5 | 27 | 1 | **1016080000** |
| **brass** | | | | | |
| VG 21 HQ MS68 9-13 | PG 21 | 9-13 | 30 | 1 | **1016090000** |
| VG 21 HQ MS68 11.5-15.5 | PG 21 | 11.5-15.5 | 30 | 1 | **1016100000** |
| VG 21 HQ MS68 14-18 | PG 21 | 14-18 | 30 | 1 | **1016110000** |
| **EMC** | | | | | |
| VG 21 HQ EMV68 11-15.5 | PG 21 | 11-15.5 | 30 | 1 | **1016120000** |
| VG 21 HQ EMV68 14-18 | PG 21 | 14-18 | 30 | 1 | **1016130000** |
| **only for angled HQ base enclosure (order number 1003110000)** | | | | | |
| VG16 HQ K68 9-12SH | PG 16 | 9-12 | 30 | 1 | **1045530000** |
| VG16 HQ K68 11,5-15,5SH | PG 16 | 11.5-15.5 | 30 | 1 | **1045540000** |

# 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 |
| Protection class | IP54 |
| Marking | II 2 GD, Ex db IIC, Ex eb II, Ex tD |

## Ordering data

| External thread | 1/2" NPT | 3/4" NPT | 1" NPT | 1 1/4" NPT | 1 1/2" NPT | 2" NPT | 2 1/2" NPT | 3" NPT |
|---|---|---|---|---|---|---|---|---|
| **Inner thread** | **Order No.** | **Order No.** | **Order No.** | **Order No.** | **Order No.** | **Order No.** | **Order No.** | **Order No.** |
| M16 | 1737490000 | | | | | | | |
| M20 | 1737650000 | 1737640000 | 1737630000 | | | 1737600000 | | |
| M25 | 1737810000 | 1737800000 | 1737790000 | | | 1737760000 | 1737750000 | |
| M32 | | 1737950000 | | | | 1737910000 | | 1737890000 |
| M40 | | | 1738070000 | | | 1738040000 | | |
| M63 | | | | | | 1738240000 | | 1738220000 |
| 1/2" NPT | | 1738400000 | 1738390000 | | 1738370000 | | | |
| 3/4" NPT | 1738570000 | | 1738550000 | | 1738530000 | | | |
| 1" NPT | | | | 1738690000 | 1738680000 | | | |
| 1 1/4" NPT | | | | | | 1738790000 | | |
| 1 1/2" NPT | | | | | 1738910000 | | | |

**Note** Qty. = 1

## Adaptors with metric 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 |
| Protection class | IP54 |
| Marking | II 2 GD, Ex db IIC, Ex eb II, Ex tD |

## Ordering data

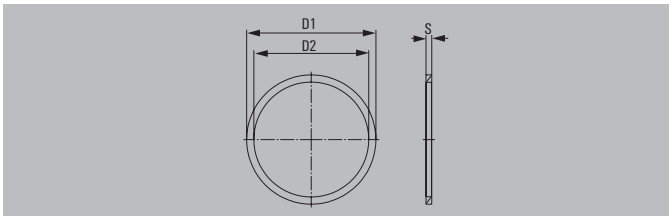
| External thread | M 16 | M 20 | M 25 | M 32 | M 40 | M 50 | M 63 | M 75 |
|---|---|---|---|---|---|---|---|---|
| Inner thread | Order No. | Order No. | Order No. | Order No. | Order No. | Order No. | Order No. | Order No. |
| M16 | | 1737560000 | 1737550000 | 1737540000 | 1737530000 | | | |
| M20 | 1737730000 | 1737720000 | 1737710000 | 1737700000 | 1737690000 | 1737680000 | 1737670000 | |
| M25 | | 1737880000 | | 1737860000 | 1737850000 | | 1737830000 | |
| M32 | | | 1738010000 | | 1737990000 | 1737980000 | 1737970000 | |
| M40 | | | | 1738120000 | | 1738100000 | 1738090000 | |
| M50 | | | | | 1738210000 | | 1738190000 | 1738180000 |
| M75 | | | | | | 1738280000 | 1738330000 | 1738260000 |
| 1/2" NPT | | 1738480000 | | 1738460000 | 1738450000 | 1738440000 | 1738430000 | |
| 3/4" NPT | | 1738640000 | 1738630000 | | 1738610000 | | | |
| 1" NPT | | | 1738760000 | 1738750000 | 1738740000 | 1738730000 | 1738720000 | |
| 1 1/4" NPT | | | | 1738870000 | | 1738850000 | 1738840000 | |
| 1 1/2" NPT | | | | | | | 1738940000 | 1738930000 |
| 2" NPT | | | | | | | | 1739010000 |
| 2 1/2" NPT | | | | | | | 1739080000 | 1739070000 |
| 3" NPT | | | | | | | | 1739110000 |

**Note** Qty. = 1

## Accessories – Flat IP washer

### Flat IP washer – Standard – Polyethylene

For better sealing of the connection thread of a cable gland or accessory.




### Technical data

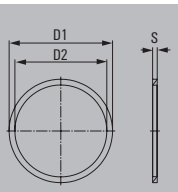
| | |
|---|---|
| Material / Colour | Polyethylene / Transparent |
| Temperature range | -30 °C...90 °C |
| **Note** | |

### Ordering data

| Type | Thread | D1 | D2 | S | Qty. | Order No. |
|---|---|---|---|---|---|---|
| **metric** | | | | | | |
| GWDR M12-PO | M 12 | 16.00 | 12.00 | 2.00 | 50 | **1777920000** |
| GWDR M16-PO | M 16 | 20.00 | 16.00 | 2.00 | 50 | **1777930000** |
| GWDR M20-PO | M 20 | 24.00 | 20.00 | 2.00 | 100 | **1777940000** |
| GWDR M25-PO | M 25 | 29.00 | 25.00 | 2.00 | 50 | **1777950000** |
| GWDR M32-PO | M 32 | 36.00 | 32.00 | 2.00 | 50 | **1777960000** |
| GWDR M40-PO | M 40 | 45.00 | 40.00 | 2.00 | 50 | **1777970000** |
| GWDR M50-PO | M 50 | 56.00 | 50.00 | 2.00 | 50 | **1777980000** |
| GWDR M63-PO | M 63 | 70.00 | 63.00 | 2.00 | 50 | **1777990000** |
| **PG** | | | | | | |
| GWDR PG7-PO | PG 7 | 16.50 | 12.50 | 2.00 | 100 | **1719440000** |
| GWDR PG9-PO | PG 9 | 19.00 | 15.20 | 2.00 | 100 | **1719450000** |
| GWDR PG11-PO | PG 11 | 22.50 | 18.60 | 2.00 | 100 | **1719460000** |
| GWDR PG13,5-PO | PG 13.5 | 25.00 | 20.40 | 2.00 | 100 | **1719470000** |
| GWDR PG16-PO | PG 16 | 27.00 | 22.50 | 2.00 | 100 | **1719480000** |
| GWDR PG21-PO | PG 21 | 33.50 | 28.30 | 3.00 | 100 | **1719490000** |
| GWDR PG29-PO | PG 29 | 43.50 | 37.00 | 3.00 | 50 | **1719500000** |
| GWDR PG36-PO | PG 36 | 55.00 | 47.00 | 3.00 | 50 | **1719510000** |
| GWDR PG42-PO | PG 42 | 63.00 | 54.00 | 3.00 | 10 | **1719520000** |
| GWDR PG48-PO | PG 48 | 69.00 | 59.30 | 3.00 | 5 | **1719530000** |
| **Note** | Further versions on request. | | | | | |

## Flat IP washer – Standard – Neoprene

For better sealing of the connection thread of a cable gland or accessory.




## Technical data

| | |
|---|---|
| Material / Colour | Neoprene / Deep black / RAL 9005 |
| Temperature range | -40 °C...100 °C |
| **Note** | |

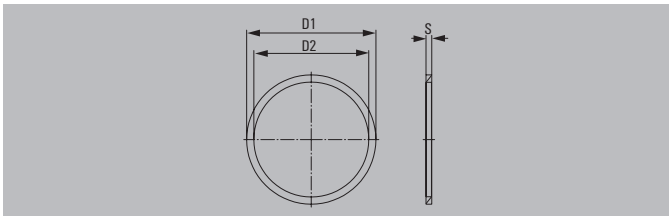
## Ordering data

| Type | Thread | D1 | D2 | S | Qty. | Order No. |
|---|---|---|---|---|---|---|
| **metric** | | | | | | |
| GWDR M12-NP | M 12 | 18.00 | 12.00 | 1.20 | 50 | **1913320000** |
| GWDR M16-NP | M 16 | 22.00 | 16.00 | 1.20 | 50 | **1736230000** |
| GWDR M20-NP | M 20 | 24.00 | 20.00 | 1.20 | 50 | **1736240000** |
| GWDR M25-NP | M 25 | 30.00 | 25.00 | 1.50 | 100 | **1736250000** |
| GWDR M32-NP | M 32 | 42.00 | 32.00 | 1.50 | 50 | **1736260000** |
| GWDR M40-NP | M 40 | 52.00 | 40.00 | 1.50 | 20 | **1736270000** |
| GWDR M50-NP | M 50 | 63.00 | 50.00 | 1.50 | 20 | **1736280000** |
| GWDR M63-NP | M 63 | 77.00 | 63.00 | 2.00 | 10 | **1736290000** |
| **PG** | | | | | | |
| GWDR PG7-NP | PG 7 | 17.00 | 11.60 | 1.20 | 100 | **1719540000** |
| GWDR PG9-NP | PG 9 | 21.00 | 14.00 | 1.20 | 100 | **1719550000** |
| GWDR PG11-NP | PG 11 | 24.00 | 17.00 | 1.20 | 100 | **1719560000** |
| GWDR PG13,5-NP | PG 13.5 | 27.00 | 19.50 | 1.20 | 100 | **1719570000** |
| GWDR PG16-NP | PG 16 | 30.00 | 22.50 | 1.20 | 100 | **1719580000** |
| GWDR PG21-NP | PG 21 | 35.00 | 28.30 | 1.50 | 100 | **1719590000** |
| GWDR PG29-NP | PG 29 | 45.00 | 37.00 | 1.50 | 50 | **1719600000** |
| GWDR PG36-NP | PG 36 | 60.00 | 47.00 | 1.50 | 20 | **1719610000** |
| GWDR PG42-NP | PG 42 | 65.00 | 54.00 | 1.50 | 10 | **1719620000** |
| GWDR PG48-NP | PG 48 | 71.00 | 59.30 | 1.50 | 5 | **1719630000** |
| **Note** | Further versions on request. | | | | | |

## Accessories – Flat IP washer

### Flat IP washer – Standard – Nylon

For better sealing of the connection thread of a cable gland or accessory.




### Technical data

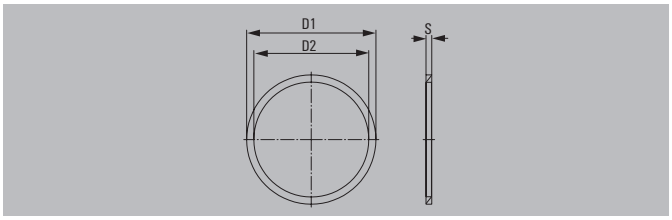
| | |
|---|---|
| Material / Colour | Nylon 6 / traffic red / RAL 3020 |
| Temperature range | -40 °C...135 °C |
| **Note** | |

### Ordering data

| Type | Thread | D1 | D2 | S | Qty. | Order No. |
|---|---|---|---|---|---|---|
| **metric** | | | | | | |
| KSWN M16 | M 16 | 25.00 | 16.50 | 2.00 | 25 | **1076630000** |
| KSWN M20 | M 20 | 29.40 | 20.70 | 2.00 | 25 | **0930730002** |
| KSWN M25 | M 25 | 38.10 | 25.70 | 2.00 | 25 | **1076640000** |
| KSWN M32 | M 32 | 42.50 | 32.50 | 2.00 | 25 | **1076650000** |
| KSWN M40 | M 40 | 52.00 | 40.50 | 2.00 | 25 | **0899780000** |
| KSWN M50 | M 50 | 65.00 | 50.50 | 2.00 | 25 | **0900660000** |
| KSWN M63 | M 63 | 79.40 | 63.50 | 2.00 | 25 | **1076660000** |
| KSWN M75 | M 75 | 90.50 | 75.50 | 2.00 | 25 | **1076670000** |
| **Note** | | | | | | |

## Flat IP washer – Standard – Vulcanised fibre

For better sealing of the connection thread of a cable gland or accessory.




### Technical data

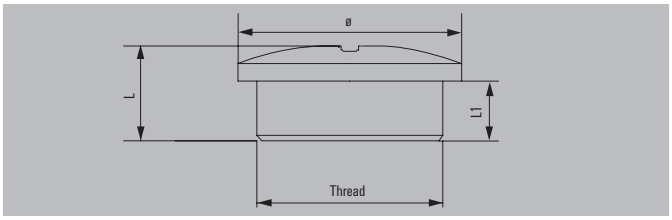
| | |
|---|---|
| Material / Colour | Vulcanized fibre / brown-red / RAL 3011 |
| Temperature range | -40 °C...95 °C |
| **Note** | |

### Ordering data

| Type | Thread | D1 | D2 | S | Qty. | Order No. |
|---|---|---|---|---|---|---|
| **metric** | | | | | | |
| KSWF M16 | M 16 | 25.00 | 16.50 | 1.50 | 25 | **1076680000** |
| KSWF M20 | M 20 | 29.40 | 20.70 | 1.50 | 25 | **0899750000** |
| KSWF M25 | M 25 | 38.10 | 25.70 | 1.50 | 25 | **0899770000** |
| KSWF M32 | M 32 | 42.50 | 32.50 | 1.50 | 25 | **1076690000** |
| KSWF M40 | M 40 | 52.00 | 40.50 | 1.50 | 25 | **1076710000** |
| KSWF M50 | M 50 | 65.00 | 50.50 | 1.50 | 25 | **1076720000** |
| KSWF M63 | M 63 | 79.40 | 63.50 | 1.50 | 25 | **1076730000** |
| KSWF M75 | M 75 | 90.50 | 75.50 | 1.50 | 25 | **1076740000** |
| **Note** | | | | | | |

## Blanking plugs – Plastic

Plastic blanking plug with cross-head is used to seal surplus threaded holes and to maintain the IP protection degree.




### Technical data

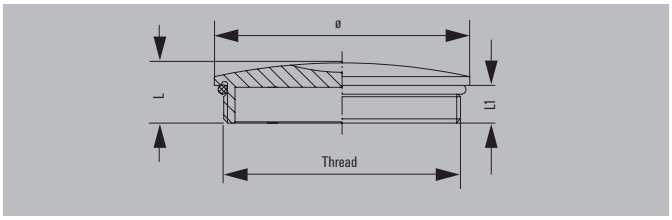
| | |
|---|---|
| Material / Colour | Polyamid 6 (PA6 - GF30) / Light Grey / RAL 7035 |
| Temperature range | -40 °C...100 °C |
| Protection class | IP54 |
| Flammability rating | V-2 |
| **Note** | Optional sealing ring. |

### Ordering data

| Type | Thread | L | L1 | Head Ø | Qty. | Order No. |
|---|---|---|---|---|---|---|
| **metric** | | | | | | |
| VP M12 K54 | M 12 | 5.5 | 6 | 15.00 | 100 | **1776930000** |
| VP M16 K54 | M 16 | 5.5 | 7 | 20.00 | 100 | **1776920000** |
| VP M20 K54 | M 20 | 6.5 | 7 | 24.00 | 100 | **1776910000** |
| VP M25 K54 | M 25 | 7 | 10 | 30.00 | 100 | **1776900000** |
| VP M32 K54 | M 32 | 7 | 11 | 37.00 | 50 | **1776940000** |
| VP M40 K54 | M 40 | 7 | 13 | 46.00 | 25 | **1776950000** |
| VP M50 K54 | M 50 | 8.5 | 14 | 56.00 | 10 | **1776960000** |
| VP M63 K54 | M 63 | 8.5 | 15 | 69.50 | 50 | **1776970000** |
| **PG** | | | | | | |
| VP 7-K54 | PG 7 | 8 | 6 | 15.00 | 100 | **1719250000** |
| VP 9-K54 | PG 9 | 9.5 | 5 | 19.00 | 100 | **0294760000** |
| VP 11-K54 | PG 11 | 10 | 6.5 | 22.00 | 100 | **0294860000** |
| VP 13,5-K54 | PG 13.5 | 10 | 5 | 25.00 | 100 | **0294960000** |
| VP 16-K54 | PG 16 | 10 | 5 | 27.00 | 100 | **0295060000** |
| VP 21-K54 | PG 21 | 12 | 8 | 33.00 | 50 | **0295160000** |
| VP 29-K54 | PG 29 | 11.5 | 8 | 44.00 | 25 | **0501160000** |
| VP 36-K54 | PG 36 | 14 | 10 | 55.00 | 10 | **0501260000** |
| VP 42-K54 | PG 42 | 14 | 10 | 62.00 | 5 | **0501360000** |
| VP 48-K54 | PG 48 | 16 | 12 | 69.00 | 5 | **1719260000** |
| **Note** | Other versions available on request. The blanking plugs must be tightened "hand-tight" with the screwdriver. | | | | | |

## Blanking plugs – Brass – Nickel-plated

Brass blanking plug with cross-head is used to seal surplus threaded holes and to maintain the IP protection degree.




### Technical data

| | |
|---|---|
| Material | Brass, nickel-plated |
| O-Ring | NBR |
| Temperature range | -40 °C...100 °C |
| Protection class | IP68 - 5 bar (30 min.) |

**Note**

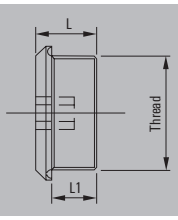
### Ordering data

| Type | Thread | L | L1 | Head Ø | Qty. | Order No. |
|---|---|---|---|---|---|---|
| **metric** | | | | | | |
| VP M12-MS65 | M 12 | 7.5 | 5 | 14.00 | 100 | **1777720000** |
| VP M16-MS65 | M 16 | 8 | 5 | 18.00 | 100 | **1777730000** |
| VP M20-MS65 | M 20 | 9.5 | 6 | 22.00 | 100 | **1777740000** |
| VP M25-MS65 | M 25 | 11 | 7 | 28.00 | 100 | **1777750000** |
| VP M32-MS65 | M 32 | 12 | 8 | 35.00 | 50 | **1777760000** |
| VP M40-MS65 | M 40 | 13 | 8 | 44.00 | 50 | **1777770000** |
| VP M50-MS65 | M 50 | 15 | 9 | 54.00 | 25 | **1777780000** |
| VP M63-MS65 | M 63 | 16 | 10 | 67.00 | 10 | **1777790000** |
| **PG** | | | | | | |
| VP 7-MS65 | PG 7 | 7.5 | 5 | 15.00 | 100 | **0521600000** |
| VP 9-MS65 | PG 9 | 8 | 5 | 18.00 | 100 | **0294700000** |
| VP 11-MS65 | PG 11 | 8 | 5 | 22.00 | 100 | **0294800000** |
| VP 13,5-MS65 | PG 13.5 | 9 | 6 | 24.00 | 100 | **0294900000** |
| VP 16-MS65 | PG 16 | 9 | 6 | 26.00 | 100 | **0295000000** |
| VP 21-MS65 | PG 21 | 10 | 6 | 32.00 | 50 | **0295100000** |
| VP 29-MS65 | PG 29 | 12 | 8 | 40.00 | 50 | **0501100000** |
| VP 36-MS65 | PG 36 | 15 | 9 | 50.00 | 25 | **0501200000** |
| VP 42-MS65 | PG 42 | 16 | 10 | 57.00 | 25 | **0501300000** |
| VP 48-MS65 | PG 48 | 16 | 10 | 64.00 | 10 | **1719270000** |

**Note** Other versions available on request. The blanking plugs must be tightened "hand-tight" with the screwdriver.

## Blanking plugs – Brass and Stainless steel – Ex e, Ex d, IP66 / IP68

The KSPMH is a mushroom-shaped blanking plug with a hexagon socket. It is used to seal unused threaded holes so that cable glands can be inserted in the future. The KSPMH is approved for pressure-resistant Ex d encapsulations and increased safety Ex e applications.




### Technical data

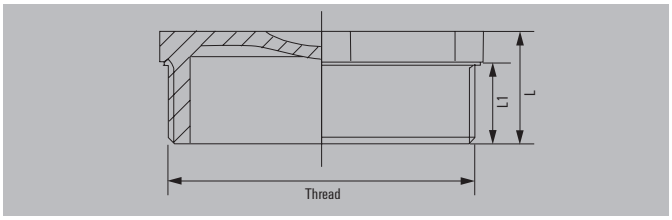
| | |
|---|---|
| O-Ring | Silicone |
| Temperature range | -60 °C...200 °C |
| Protection class | IP66, IP68 (100 m / 168 h) |
| Marking | Ex d IIC Gb, Ex e IIC Gb, Ex tb IIIC Db |
| **Note** | |

### Ordering data

| Type | Thread | L | L1 | Qty. | Order No. |
|---|---|---|---|---|---|
| **brass** | | | | | |
| KSPMH M16 BSC | M 16 | 20.5 | 16 | 20 | **1477740000** |
| KSPMH M20 BSC | M 20 | 21 | 16 | 20 | **1477750000** |
| KSPMH M25 BSC | M 25 | 21 | 16 | 20 | **1477770000** |
| KSPMH M32 BSC | M 32 | 21 | 16 | 10 | **1477780000** |
| KSPMH M40 BSC | M 40 | 21.5 | 16 | 10 | **1477790000** |
| KSPMH M50 BSC | M 50 | 21.5 | 16 | 1 | **1477800000** |
| KSPMH M63 BSC | M 63 | 22 | 16 | 1 | **1477810000** |
| KSPMH M75 BSC | M 75 | 22 | 16 | 1 | **1477830000** |
| **Stainless steel** | | | | | |
| KSPMH M16 SSC | M 16 | 20.5 | 16 | 20 | **1477820000** |
| KSPMH M20 SSC | M 20 | 21 | 16 | 20 | **1477840000** |
| KSPMH M25 SSC | M 25 | 21 | 16 | 20 | **1477870000** |
| KSPMH M32 SSC | M 32 | 21 | 16 | 10 | **1477890000** |
| KSPMH M40 SSC | M 40 | 21.5 | 16 | 10 | **1477910000** |
| KSPMH M50 SSC | M 50 | 21.5 | 16 | 1 | **1477930000** |
| KSPMH M63 SSC | M 63 | 22 | 16 | 1 | **1477950000** |
| KSPMH M75 SSC | M 75 | 22 | 16 | 1 | **1477980000** |

## Blanking plugs – Plastic – Ex e, IP66

For secure connection of unused screw-in threads or through-hole in enclosures. For Ex e applications with an impact resistance of 7 Joule in accordance with IEC 60079-0.




### Technical data

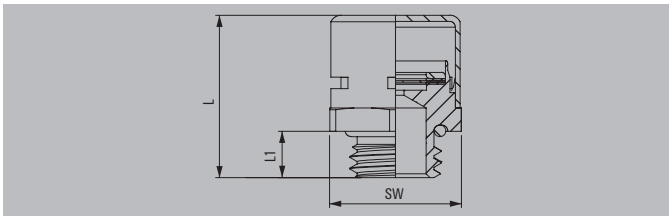
| | |
|---|---|
| Material / Colour | Polyamide 6 / Deep black / RAL 9005 |
| O-Ring | Silicone |
| Temperature range | -60 °C...70 °C |
| Protection class | IP54, IP66, IP67, IP68 - 5 bar (30 min.) |
| Impact resistance | 7 joules in acc. with IEC 60079-0 |
| Marking | Ex eb IIC Gb, Ex tb IIIC Db IP66/68 |
| **Note** | |

### Ordering data

| Type | Thread | L | L1 | SW | Qty. | Order No. |
|---|---|---|---|---|---|---|
| VP M12 EX SI 7J | M 12 | 15 | 10 | 15 | 100 | **2066710000** |
| VP M16 EX SI 7J | M 16 | 16.3 | 12 | 19 | 100 | **2066720000** |
| VP M20 EX SI 7J | M 20 | 17 | 11 | 23 | 100 | **2066730000** |
| VP M25 EX SI 7J | M 25 | 15.8 | 10 | 28 | 100 | **2066740000** |
| VP M32 EX SI 7J | M 32 | 22.8 | 15 | 36 | 100 | **2066750000** |
| VP M40 EX SI 7J | M 40 | 26.5 | 18 | 46 | 20 | **2066760000** |
| VP M50 EX SI 7J | M 50 | 27.5 | 18 | 55 | 20 | **2066770000** |
| VP M63 EX SI 7J | M 63 | 27.5 | 18 | 69 | 20 | **2066940000** |

## Compensation elements – Stainless steel – DAE

The DAE pressure-compensation element provides good ventilation for the enclosure and prevents moisture build-up. At the same time it maintains the high IP69k protection level. The membrane repels water and oil.




### Technical data

| | |
|---|---|
| Material | Stainless steel 1.4305 (303) |
| O-Ring | NBR |
| Temperature range | -40 °C...105 °C |
| Protection class | IP66, IP68 (1 m / 60 min), IP69K |
| Air flow | 0.4 l/min at 0.1 bar ΔP, up to 5.0 l/min at 1bar ΔP |
| Water inlet point | > 1.5 bar |
| **Note** | |

### Ordering data

| Type | Thread | L | L1 | SW | Qty. | Order No. |
|---|---|---|---|---|---|---|
| **metric** | | | | | | |
| DAE M12 SS | M 12 | 21.1 | 10 | 17 | 10 | **1868550000** |
| **Note** | | | | | | |

# Service and support


| | | |
|---|---|---|
| **Service and support** | Our expertise for your requirements | V.2 |
| | Engineering support and customised assembly | V.3 |
| | Personal Support | V.4 |

# Engineering support and customised assembly

Automation engineering and connectivity consulting belongs to our services as well as assembly of engineered products. We also support the process from the idea to the product with our Weidmüller Configurator and the Configure-to-Order process.

**Consulting and engineering**
The challenge for you is reducing costs and increasing efficiency. This requires intelligent, individual solutions. Whether it is modified products, pre-fitted mounting rails or complete small cabinets - our application centres provide a highly qualified custom-made engineering and production service.

**Connectivity Consulting**
Alongside our product offering, we support you with our range of services through all the phases of machine construction. The result of this collaboration is a reduction of up to 30% in cycle times, up to 20% more space in the control cabinet and significant fault reduction.
Our experienced Connectivity Consulting team delivers a practical impetus rather than just abstract theories.

**Fitted mounting rails**
Your processes in panel building have to be fast, flexible and productive. This is the only way you can cut your costs and increase efficiency. Depending on the application in question, you will have different requirements with respect to the engineering service, delivery speed and flexibility to be provided.

**Processed and assembled enclosures**
To compete internationally, your plants need to satisfy high standards of safety, quality and performance. The smart combination of consultation, application expertise and industry know-how is our key to finding a custom-fit solution for your application. Reduce costs and increase efficiency

**Technical downloads**
All information, such as technical data, manuals, certificates and much more for the appropriate use of our products and solutions in your application

**Engineering data**
For the quick integration of our products into your design, there are a lot of digital product data for engineering systems like EPLAN, Zuken E3.series, WSCAD and many others available for download.

**Product software**
Our software makes using and configuration of our products easier for you when it comes to operation, configuration and monitoring

**Approvals, certificates & declaration of conformity**
We supply product- or company-related approvals and certificates for your documentation

**Security advisory board**
Our Product Security Incident Response Team (PSIRT) continuously informs you about possible security-related vulnerabilities of our products

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| HDC 04A ELU 1M20G | 1900320000 | B.97 |
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| HDC 24B KBU 1M25G N | 2559870000 | B.131 |

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| HDC 40D KBU 2M32G N | 2545510000 | B.41 |
| HDC 40D KBU 2M32G N | 2545510000 | B.57 |
| HDC 40D KBU 2M32G N | 2545510000 | B.73 |
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| HDC 40D KBU 2M32G N | 2545510000 | B.119 |
| HDC 40D KBU 2M32G N | 2545510000 | B.121 |
| HDC 40D KBU 2M32G N | 2545510000 | B.123 |
| HDC 40D KBU 2M32G N | 2545510000 | B.125 |
| HDC 40D KBU 2M32G N | 2545510000 | D.22 |
| HDC 40D KLU 1M25G | 1787220000 | D.23 |
| HDC 40D SBU 1M25G | 1902970000 | D.22 |
| HDC 40D SBU 1M32G | 1902990000 | D.22 |
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| HDC 40D SBU 1M32G N | 2561030000 | B.39 |
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| HDC 40D SBU 1M32G N | 2561030000 | B.119 |
| HDC 40D SBU 1M32G N | 2561030000 | B.121 |
| HDC 40D SBU 1M32G N | 2561030000 | B.123 |
| HDC 40D SBU 1M32G N | 2561030000 | B.125 |
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| HDC 40D SBU 1PG29G | 1656830000 | D.22 |
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| HDC 40D SBU 2M32G | 1787110000 | B.73 |
| HDC 40D SBU 2M32G | 1787110000 | B.85 |

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| HDC 40D SBU 2M32G | 1787110000 | B.119 |
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| HDC 40D SBU 2M32G | 1787110000 | B.123 |
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| HDC 40D SBU 2PG21G | 1656810000 | D.22 |
| HDC 40D SBU 2PG29G | 1656840000 | D.22 |
| HDC 40D SDLU 1M25G | 1903070000 | D.23 |
| HDC 40D SDLU 1M32G | 1903080000 | D.23 |
| HDC 40D SDLU 1PG29G | 1658410000 | D.23 |
| HDC 40D SDLU 2M25G | 1787180000 | D.23 |
| HDC 40D SDLU 2M32G | 1787170000 | D.23 |
| HDC 40D SLU 1M32G | 1903110000 | D.23 |
| HDC 40D SLU 2M32G | 1804660000 | D.23 |
| HDC 40D TOBO 1PG29G | 1657550000 | D.24 |
| HDC 40D TOBU 1M25G | 1787070000 | B.25 |
| HDC 40D TOBU 1M25G | 1787070000 | B.39 |
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| HDC 40D TOBU 1M32G1M20G | 1229120000 | D.21 |
| HDC 40D TOBU 1M40G EMC | 2544040000 | E.6 |
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| HDC 40D TOBU 1PG29G | 1656650000 | D.21 |
| HDC 40D TOBU 2M25 | 1208380000 | D.21 |
| HDC 40D TOLU 1M32G | 1787100000 | D.23 |
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| HDC 40D TSBU 1PG29G | 1656540000 | D.21 |
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| HDC 40D TSLU 1PG21G | 1657890000 | D.23 |
| HDC 40D TSLU 1PG29G | 1657910000 | D.23 |
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| HDC 48A SDLU 1PG29G | 1666810000 | D.33 |
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| HDC 48B ADLU | 1222900000 | B.65 |
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| HDC 48B TOLU 1PG36G | 1651000000 | D.37 |
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| HDC 48B TSLU 1M40G | 1788310000 | B.79 |
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| HDC 64D SBU 1M32G | 1904350000 | D.28 |
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| HDC 64D SBU 1M32G N | 2561050000 | B.131 |
| HDC 64D SBU 1M32G N | 2561050000 | D.28 |
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| HDC 64D SDBO 1PG29G | 1662280000 | D.31 |
| HDC 64D SDBO 2M32G | 1786920000 | D.31 |
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| HDC 64D TOBU 1M50G | 1111140000 | D.27 |
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| HDC HQM TSLU 1PG21 | 1003100000 | D.9 |
| HDC HQP ALU | 1003040000 | B.103 |
| HDC HQP ALU | 1003040000 | B.107 |
| HDC HQP ALU | 1003040000 | D.8 |
| HDC HQP ALU CS | 1354950000 | D.8 |
| HDC HQP AWLU | 1003060000 | B.103 |
| HDC HQP AWLU | 1003060000 | B.107 |
| HDC HQP AWLU | 1003060000 | D.8 |
| HDC HQP DMD 2BO | 1003130000 | B.103 |
| HDC HQP DMD 2BO | 1003130000 | B.105 |
| HDC HQP DMD 2BO | 1003130000 | B.107 |
| HDC HQP DMD 2BO | 1003130000 | D.8 |
| HDC HQP DMD 2BO | 1003130000 | D.9 |
| HDC HQP DMD 2BO CS | 1251660000 | D.8 |
| HDC HQP DMD 2BO CS | 1251660000 | D.9 |
| HDC HQP DOD 2BO | 1003140000 | B.103 |
| HDC HQP DOD 2BO | 1003140000 | B.105 |
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| HDC HQP DOD 2BO | 1003140000 | D.9 |
| HDC HQP DOD 2BO CS | 1251670000 | D.8 |
| HDC HQP DOD 2BO CS | 1251670000 | D.9 |
| HDC HQP KOLU 1PG16 | 1003120000 | B.103 |
| HDC HQP KOLU 1PG16 | 1003120000 | B.107 |
| HDC HQP KOLU 1PG16 | 1003120000 | D.8 |
| HDC HQP SLU 1PG16 | 1003110000 | B.103 |
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| HDC HQP TOLU 1PG16 | 1003070000 | B.107 |
| HDC HQP TOLU 1PG16 | 1003070000 | D.8 |
| HDC HQP TSLU 1PG16 | 1003090000 | B.103 |
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| HDC HQP TSLU 1PG16 | 1003090000 | D.8 |
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| HDC HSB 6 FS 7 - 12 | 1499000000 | B.92 |
| HDC HSB 6 MS | 1498700000 | B.90 |
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| HDC HVE 3+2 MS | 1651310000 | B.82 |
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| HDC MXCC7 4X | 2709770000 | C.20 |
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| HDC S4/0 FS | 1023210000 | B.116 |
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| HDC-C-HD-BM0.14-0.37AU | 1651670000 | J.4 |
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| HDC-C-HD-BM0.5AG | 1651580000 | B.50 |
| HDC-C-HD-BM0.5AG | 1651580000 | B.52 |
| HDC-C-HD-BM0.5AG | 1651580000 | B.54 |
| HDC-C-HD-BM0.5AG | 1651580000 | B.56 |
| HDC-C-HD-BM0.5AG | 1651580000 | B.58 |
| HDC-C-HD-BM0.5AG | 1651580000 | B.60 |
| HDC-C-HD-BM0.5AG | 1651580000 | B.62 |
| HDC-C-HD-BM0.5AG | 1651580000 | B.64 |
| HDC-C-HD-BM0.5AG | 1651580000 | B.68 |
| HDC-C-HD-BM0.5AG | 1651580000 | B.70 |
| HDC-C-HD-BM0.5AG | 1651580000 | B.72 |
| HDC-C-HD-BM0.5AG | 1651580000 | B.74 |
| HDC-C-HD-BM0.5AG | 1651580000 | B.76 |
| HDC-C-HD-BM0.5AG | 1651580000 | B.78 |
| HDC-C-HD-BM0.5AG | 1651580000 | B.98 |
| HDC-C-HD-BM0.5AG | 1651580000 | B.100 |
| HDC-C-HD-BM0.5AG | 1651580000 | B.104 |
| HDC-C-HD-BM0.5AG | 1651580000 | B.106 |
| HDC-C-HD-BM0.5AG | 1651580000 | B.114 |
| HDC-C-HD-BM0.5AG | 1651580000 | B.120 |
| HDC-C-HD-BM0.5AG | 1651580000 | B.124 |
| HDC-C-HD-BM0.5AG | 1651580000 | C.21 |
| HDC-C-HD-BM0.5AG | 1651580000 | C.22 |
| HDC-C-HD-BM0.5AG | 1651580000 | J.4 |
| HDC-C-HD-BM0.5AU | 1651680000 | B.48 |
| HDC-C-HD-BM0.5AU | 1651680000 | B.50 |
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| HDC-C-HD-BM0.5AU | 1651680000 | B.56 |
| HDC-C-HD-BM0.5AU | 1651680000 | B.58 |
| HDC-C-HD-BM0.5AU | 1651680000 | B.60 |
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| HDC-C-HD-BM0.5AU | 1651680000 | B.68 |
| HDC-C-HD-BM0.5AU | 1651680000 | B.70 |
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| HDC-C-HD-BM0.5AU | 1651680000 | B.74 |
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| HDC-C-HD-BM0.5AU | 1651680000 | B.78 |
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| HDC-C-HD-BM0.5AU | 1651680000 | B.104 |
| HDC-C-HD-BM0.5AU | 1651680000 | B.106 |
| HDC-C-HD-BM0.5AU | 1651680000 | B.114 |
| HDC-C-HD-BM0.5AU | 1651680000 | B.120 |
| HDC-C-HD-BM0.5AU | 1651680000 | B.124 |
| HDC-C-HD-BM0.5AU | 1651680000 | C.21 |
| HDC-C-HD-BM0.5AU | 1651680000 | C.22 |

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| HDC-C-HD-BM0.5AU | 1651680000 | J.4 |
| HDC-C-HD-BM0.75-1.00AG | 1601760000 | B.48 |
| HDC-C-HD-BM0.75-1.00AG | 1601760000 | B.50 |
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| HDC-C-HD-BM0.75-1.00AG | 1601760000 | B.54 |
| HDC-C-HD-BM0.75-1.00AG | 1601760000 | B.56 |
| HDC-C-HD-BM0.75-1.00AG | 1601760000 | B.58 |
| HDC-C-HD-BM0.75-1.00AG | 1601760000 | B.60 |
| HDC-C-HD-BM0.75-1.00AG | 1601760000 | B.62 |
| HDC-C-HD-BM0.75-1.00AG | 1601760000 | B.64 |
| HDC-C-HD-BM0.75-1.00AG | 1601760000 | B.68 |
| HDC-C-HD-BM0.75-1.00AG | 1601760000 | B.70 |
| HDC-C-HD-BM0.75-1.00AG | 1601760000 | B.72 |
| HDC-C-HD-BM0.75-1.00AG | 1601760000 | B.74 |
| HDC-C-HD-BM0.75-1.00AG | 1601760000 | B.76 |
| HDC-C-HD-BM0.75-1.00AG | 1601760000 | B.78 |
| HDC-C-HD-BM0.75-1.00AG | 1601760000 | B.98 |
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| HDC-C-HD-BM0.75-1.00AG | 1601760000 | B.104 |
| HDC-C-HD-BM0.75-1.00AG | 1601760000 | B.106 |
| HDC-C-HD-BM0.75-1.00AG | 1601760000 | B.114 |
| HDC-C-HD-BM0.75-1.00AG | 1601760000 | B.120 |
| HDC-C-HD-BM0.75-1.00AG | 1601760000 | B.124 |
| HDC-C-HD-BM0.75-1.00AG | 1601760000 | C.21 |
| HDC-C-HD-BM0.75-1.00AG | 1601760000 | C.22 |
| HDC-C-HD-BM0.75-1.00AG | 1601760000 | J.4 |
| HDC-C-HD-BM0.75-1.00AU | 1651690000 | B.48 |
| HDC-C-HD-BM0.75-1.00AU | 1651690000 | B.50 |
| HDC-C-HD-BM0.75-1.00AU | 1651690000 | B.52 |
| HDC-C-HD-BM0.75-1.00AU | 1651690000 | B.54 |
| HDC-C-HD-BM0.75-1.00AU | 1651690000 | B.56 |
| HDC-C-HD-BM0.75-1.00AU | 1651690000 | B.58 |
| HDC-C-HD-BM0.75-1.00AU | 1651690000 | B.60 |
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| HDC-C-HD-BM0.75-1.00AU | 1651690000 | B.106 |
| HDC-C-HD-BM0.75-1.00AU | 1651690000 | B.114 |
| HDC-C-HD-BM0.75-1.00AU | 1651690000 | B.120 |
| HDC-C-HD-BM0.75-1.00AU | 1651690000 | B.124 |
| HDC-C-HD-BM0.75-1.00AU | 1651690000 | C.21 |
| HDC-C-HD-BM0.75-1.00AU | 1651690000 | C.22 |
| HDC-C-HD-BM0.75-1.00AU | 1651690000 | J.4 |
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| HDC-C-HD-BM1.5AG | 1651600000 | B.124 |
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| HDC-C-HD-BM1.5AU | 1651700000 | B.76 |
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| HDC-C-HD-BM1.5AU | 1651700000 | B.98 |
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| HDC-C-HD-BM1.5AU | 1651700000 | B.106 |
| HDC-C-HD-BM1.5AU | 1651700000 | B.114 |
| HDC-C-HD-BM1.5AU | 1651700000 | B.120 |
| HDC-C-HD-BM1.5AU | 1651700000 | B.124 |
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|---|---|---|
| HDC-C-HD-BM1.5AU | 1651700000 | C.22 |
| HDC-C-HD-BM1.5AU | 1651700000 | J.4 |
| HDC-C-HD-BM2.5AG | 1651610000 | B.48 |
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| HDC-C-HD-BM2.5AG | 1651610000 | B.72 |
| HDC-C-HD-BM2.5AG | 1651610000 | B.74 |
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| HDC-C-HD-BM2.5AG | 1651610000 | B.78 |
| HDC-C-HD-BM2.5AG | 1651610000 | B.98 |
| HDC-C-HD-BM2.5AG | 1651610000 | B.100 |
| HDC-C-HD-BM2.5AG | 1651610000 | B.104 |
| HDC-C-HD-BM2.5AG | 1651610000 | B.106 |
| HDC-C-HD-BM2.5AG | 1651610000 | B.114 |
| HDC-C-HD-BM2.5AG | 1651610000 | B.120 |
| HDC-C-HD-BM2.5AG | 1651610000 | B.124 |
| HDC-C-HD-BM2.5AG | 1651610000 | C.21 |
| HDC-C-HD-BM2.5AG | 1651610000 | C.22 |
| HDC-C-HD-BM2.5AG | 1651610000 | J.4 |
| HDC-C-HD-BM2.5AU | 1651710000 | B.48 |
| HDC-C-HD-BM2.5AU | 1651710000 | B.50 |
| HDC-C-HD-BM2.5AU | 1651710000 | B.52 |
| HDC-C-HD-BM2.5AU | 1651710000 | B.54 |
| HDC-C-HD-BM2.5AU | 1651710000 | B.56 |
| HDC-C-HD-BM2.5AU | 1651710000 | B.58 |
| HDC-C-HD-BM2.5AU | 1651710000 | B.60 |
| HDC-C-HD-BM2.5AU | 1651710000 | B.62 |
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| HDC-C-HD-BM2.5AU | 1651710000 | B.72 |
| HDC-C-HD-BM2.5AU | 1651710000 | B.74 |
| HDC-C-HD-BM2.5AU | 1651710000 | B.76 |
| HDC-C-HD-BM2.5AU | 1651710000 | B.78 |
| HDC-C-HD-BM2.5AU | 1651710000 | B.98 |
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| HDC-C-HD-BM2.5AU | 1651710000 | B.104 |
| HDC-C-HD-BM2.5AU | 1651710000 | B.106 |
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| HDC-C-HD-BM2.5AU | 1651710000 | B.120 |
| HDC-C-HD-BM2.5AU | 1651710000 | B.124 |
| HDC-C-HD-BM2.5AU | 1651710000 | C.21 |
| HDC-C-HD-BM2.5AU | 1651710000 | C.22 |
| HDC-C-HD-BM2.5AU | 1651710000 | J.4 |
| HDC-C-HD-S-LWL1.0POF | 1773630000 | J.8 |
| HDC-C-HD-SM0.14-0.37AG | 1651520000 | B.48 |
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| HDC-C-HD-SM0.14-0.37AG | 1651520000 | B.56 |
| HDC-C-HD-SM0.14-0.37AG | 1651520000 | B.58 |
| HDC-C-HD-SM0.14-0.37AG | 1651520000 | B.60 |
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| HDC-C-HD-SM0.14-0.37AG | 1651520000 | B.104 |
| HDC-C-HD-SM0.14-0.37AG | 1651520000 | B.106 |
| HDC-C-HD-SM0.14-0.37AG | 1651520000 | B.114 |
| HDC-C-HD-SM0.14-0.37AG | 1651520000 | B.120 |
| HDC-C-HD-SM0.14-0.37AG | 1651520000 | B.124 |
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| HDC-C-HD-SM0.14-0.37AG | 1651520000 | C.22 |
| HDC-C-HD-SM0.14-0.37AG | 1651520000 | J.4 |
| HDC-C-HD-SM0.14-0.37AU | 1651620000 | B.48 |
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| HDC-C-HD-SM0.14-0.37AU | 1651620000 | B.56 |
| HDC-C-HD-SM0.14-0.37AU | 1651620000 | B.58 |
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| HDC-C-HD-SM0.14-0.37AU | 1651620000 | B.64 |
| HDC-C-HD-SM0.14-0.37AU | 1651620000 | B.68 |
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| HDC-C-HD-SM0.14-0.37AU | 1651620000 | B.72 |
| HDC-C-HD-SM0.14-0.37AU | 1651620000 | B.74 |
| HDC-C-HD-SM0.14-0.37AU | 1651620000 | B.76 |
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| HDC-C-HD-SM0.14-0.37AU | 1651620000 | B.98 |
| HDC-C-HD-SM0.14-0.37AU | 1651620000 | B.100 |
| HDC-C-HD-SM0.14-0.37AU | 1651620000 | B.104 |
| HDC-C-HD-SM0.14-0.37AU | 1651620000 | B.106 |
| HDC-C-HD-SM0.14-0.37AU | 1651620000 | B.114 |
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| HDC-C-HD-SM0.14-0.37AU | 1651620000 | C.21 |
| HDC-C-HD-SM0.14-0.37AU | 1651620000 | C.22 |
| HDC-C-HD-SM0.14-0.37AU | 1651620000 | J.4 |
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| HDC-C-HD-SM0.5AG | 1651530000 | B.114 |
| HDC-C-HD-SM0.5AG | 1651530000 | B.120 |
| HDC-C-HD-SM0.5AG | 1651530000 | B.124 |
| HDC-C-HD-SM0.5AG | 1651530000 | C.21 |
| HDC-C-HD-SM0.5AG | 1651530000 | C.22 |
| HDC-C-HD-SM0.5AG | 1651530000 | J.4 |
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| HDC-C-HD-SM0.5AU | 1651630000 | B.54 |
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| HDC-C-HD-SM0.5AU | 1651630000 | B.98 |
| HDC-C-HD-SM0.5AU | 1651630000 | B.100 |
| HDC-C-HD-SM0.5AU | 1651630000 | B.104 |
| HDC-C-HD-SM0.5AU | 1651630000 | B.106 |
| HDC-C-HD-SM0.5AU | 1651630000 | B.114 |
| HDC-C-HD-SM0.5AU | 1651630000 | B.120 |
| HDC-C-HD-SM0.5AU | 1651630000 | B.124 |
| HDC-C-HD-SM0.5AU | 1651630000 | C.21 |
| HDC-C-HD-SM0.5AU | 1651630000 | C.22 |
| HDC-C-HD-SM0.5AU | 1651630000 | J.4 |
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| HDC-C-HD-SM0.75-1.00AG | 1601750000 | B.50 |
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| HDC-C-HD-SM0.75-1.00AG | 1601750000 | B.104 |
| HDC-C-HD-SM0.75-1.00AG | 1601750000 | B.106 |
| HDC-C-HD-SM0.75-1.00AG | 1601750000 | B.114 |
| HDC-C-HD-SM0.75-1.00AG | 1601750000 | B.120 |
| HDC-C-HD-SM0.75-1.00AG | 1601750000 | B.124 |
| HDC-C-HD-SM0.75-1.00AG | 1601750000 | C.21 |
| HDC-C-HD-SM0.75-1.00AG | 1601750000 | C.22 |
| HDC-C-HD-SM0.75-1.00AG | 1601750000 | J.4 |
| HDC-C-HD-SM0.75-1.00AU | 1651640000 | B.48 |
| HDC-C-HD-SM0.75-1.00AU | 1651640000 | B.50 |
| HDC-C-HD-SM0.75-1.00AU | 1651640000 | B.52 |
| HDC-C-HD-SM0.75-1.00AU | 1651640000 | B.54 |
| HDC-C-HD-SM0.75-1.00AU | 1651640000 | B.56 |
| HDC-C-HD-SM0.75-1.00AU | 1651640000 | B.58 |
| HDC-C-HD-SM0.75-1.00AU | 1651640000 | B.60 |
| HDC-C-HD-SM0.75-1.00AU | 1651640000 | B.62 |
| HDC-C-HD-SM0.75-1.00AU | 1651640000 | B.64 |
| HDC-C-HD-SM0.75-1.00AU | 1651640000 | B.68 |
| HDC-C-HD-SM0.75-1.00AU | 1651640000 | B.70 |
| HDC-C-HD-SM0.75-1.00AU | 1651640000 | B.72 |
| HDC-C-HD-SM0.75-1.00AU | 1651640000 | B.74 |
| HDC-C-HD-SM0.75-1.00AU | 1651640000 | B.76 |
| HDC-C-HD-SM0.75-1.00AU | 1651640000 | B.78 |
| HDC-C-HD-SM0.75-1.00AU | 1651640000 | B.98 |
| HDC-C-HD-SM0.75-1.00AU | 1651640000 | B.100 |
| HDC-C-HD-SM0.75-1.00AU | 1651640000 | B.104 |
| HDC-C-HD-SM0.75-1.00AU | 1651640000 | B.106 |
| HDC-C-HD-SM0.75-1.00AU | 1651640000 | B.114 |

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| HDC-C-HD-SM0.75-1.00AU | 1651640000 | C.22 |
| HDC-C-HD-SM0.75-1.00AU | 1651640000 | J.4 |
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| HDC-C-HD-SM1.5AG | 1651550000 | B.52 |
| HDC-C-HD-SM1.5AG | 1651550000 | B.54 |
| HDC-C-HD-SM1.5AG | 1651550000 | B.56 |
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| HDC-C-HD-SM1.5AG | 1651550000 | C.22 |
| HDC-C-HD-SM1.5AG | 1651550000 | J.4 |
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| HDC-C-HE-BM0.75-1.00AG | 1201200000 | C.16 |
| HDC-C-HE-BM0.75-1.00AG | 1201200000 | J.4 |
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| HDC-C-HE-BM0.75-1.00AU | 1651480000 | B.26 |
| HDC-C-HE-BM0.75-1.00AU | 1651480000 | B.28 |
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| HDC-C-HE-BM0.75-1.00AU | 1651480000 | B.38 |
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| HDC-C-HE-BM2.5AG | 1201400000 | C.13 |
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| HDC-C-HE-BM2.5AU | 1651500000 | B.102 |
| HDC-C-HE-BM2.5AU | 1651500000 | B.114 |
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| HDC-C-HE-BM2.5AU | 1651500000 | C.14 |
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| HDC-C-HE-BM4.0AG | 1201500000 | B.24 |
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| HDC-C-HE-SM0.5AU | 1651420000 | B.40 |
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| HDC-C-HE-SM0.5AU | 1651420000 | B.44 |
| HDC-C-HE-SM0.5AU | 1651420000 | B.96 |
| HDC-C-HE-SM0.5AU | 1651420000 | B.102 |
| HDC-C-HE-SM0.5AU | 1651420000 | B.114 |
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| 1082840000 | HDC IP68 16B TSS 1PG29 | F.7 |
| 1082850000 | HDC IP68 16B TSS 1PG36 | F.7 |
| 1082860000 | HDC IP68 24B TOS 1M32 | F.8 |
| 1082870000 | HDC IP68 24B TOS 1M40 | F.8 |
| 1082880000 | HDC IP68 24B TOS 1M50 | F.8 |
| 1082900000 | HDC IP68 24B TOS 1PG21 | F.8 |
| 1082910000 | HDC IP68 24B TOS 2PG29 | F.8 |
| 1082920000 | HDC IP68 24B TOS 1PG29 | F.8 |
| 1082930000 | HDC IP68 24B TOS 1PG36 | F.8 |
| 1082940000 | HDC IP68 24B TOS 2M32 | F.8 |
| 1082950000 | HDC IP68 24B TOS 2M40 | F.8 |
| 1082960000 | HDC IP68 24B TOS 3M25 | F.8 |
| 1082970000 | HDC IP68 24B TSS 1M32 | F.8 |
| 1082980000 | HDC IP68 24B TSS 1M40 | F.8 |
| 1082990000 | HDC IP68 24B TSS 1M50 | F.8 |
| 1083000000 | HDC IP68 24B TSS 1PG29 | F.8 |
| 1083010000 | HDC IP68 24B TSS 1PG36 | F.8 |
| 1083060000 | HDC IP68 06B COVER | F.5 |
| 1083070000 | HDC IP68 10B COVER | F.6 |
| 1083080000 | HDC IP68 16B COVER | F.7 |
| 1083090000 | HDC IP68 24B COVER | F.8 |
| 1083110000 | HDC IP68 04A COVER | B.101 |
| 1083110000 | HDC IP68 04A COVER | F.4 |
| 1083120000 | HDC IP68 04A ADS 1PG13 | B.101 |
| 1083120000 | HDC IP68 04A ADS 1PG13 | F.4 |
| 1083130000 | HDC IP68 04A ADS | B.101 |
| 1083130000 | HDC IP68 04A ADS | F.4 |

## 1090000000

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| 1096180000 | IE-PIC-HYB-S-0,5-300 | J.9 |

## 1100000000

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|---|---|---|
| 1103680000 | HDC 06B HP250 MPL1 | H.7 |
| 1103690000 | HDC 24B HP250 MPL2 TYP1 | H.7 |
| 1103710000 | HDC 24B HP550 MPL2 TYP1 | H.13 |
| 1103720000 | HDC 24B HP550 MPL3 TYP1 | H.13 |
| 1103740000 | HDC 24B HP250 MPL2 TYP2 | H.7 |
| 1103750000 | HDC 24B HP250 MPL3 TYP2 | H.7 |
| 1103770000 | HDC 24B HP550 MPL2 TYP2 | H.13 |
| 1103780000 | HDC 24B HP550 MPL3 TYP2 | H.13 |

## 1110000000

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| 1110890000 | HDC IP68 06B FRAME M6 | F.5 |
| 1110900000 | HDC IP68 10B FRAME M6 | F.6 |
| 1110910000 | HDC IP68 16B FRAME M6 | F.7 |
| 1110920000 | HDC IP68 24B FRAME M6 | F.8 |
| 1111130000 | HDC 64D TSBU 1M50G | D.27 |
| 1111140000 | HDC 64D TOBU 1M50G | D.27 |
| 1111150000 | HDC 64D TSLU 1M50G | D.29 |
| 1111170000 | HDC 64D TOLU 1M50G | D.29 |
| 1116530000 | HDC-C-HE-BM4.65AU | C.13 |
| 1116530000 | HDC-C-HE-BM4.65AU | C.14 |
| 1116530000 | HDC-C-HE-BM4.65AU | C.15 |
| 1116530000 | HDC-C-HE-BM4.65AU | C.16 |
| 1116530000 | HDC-C-HE-BM4.65AU | J.4 |
| 1116540000 | HDC-C-HE-SM4.65AU | C.13 |
| 1116540000 | HDC-C-HE-SM4.65AU | C.14 |
| 1116540000 | HDC-C-HE-SM4.65AU | C.15 |
| 1116540000 | HDC-C-HE-SM4.65AU | C.16 |
| 1116540000 | HDC-C-HE-SM4.65AU | J.4 |
| 1119080000 | HDC HP 250 M 50 | H.6 |
| 1119080000 | HDC HP 250 M 50 | J.6 |
| 1119090000 | HDC HP 250 M 70 | H.6 |
| 1119090000 | HDC HP 250 M 70 | J.6 |
| 1119100000 | HDC HP 250 M 95 | H.6 |
| 1119100000 | HDC HP 250 M 95 | J.6 |
| 1119110000 | HDC HP 550 M 150 | H.12 |
| 1119110000 | HDC HP 550 M 150 | H.14 |
| 1119110000 | HDC HP 550 M 150 | J.7 |
| 1119950000 | HDC IP68 24B MD | H.7 |
| 1119950000 | HDC IP68 24B MD | H.13 |
| 1119970000 | HDC IP68 24B MD 3M40 | H.7 |
| 1119970000 | HDC IP68 24B MD 3M40 | H.13 |
| 1119980000 | HDC IP68 24B MD 3M32 | H.7 |
| 1119980000 | HDC IP68 24B MD 3M32 | H.13 |
| 1119990000 | HDC IP68 24B MD 2M40 | H.7 |
| 1119990000 | HDC IP68 24B MD 2M40 | H.13 |

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| 1120000000 | HDC IP68 24B MD 2M32 | H.7 |
| 1120000000 | HDC IP68 24B MD 2M32 | H.13 |
| 1120010000 | HDC IP68 24B MD 2M25 | H.7 |
| 1120010000 | HDC IP68 24B MD 2M25 | H.13 |
| 1120040000 | HDC IP68 HP 24B A | H.6 |
| 1120040000 | HDC IP68 HP 24B A | H.12 |
| 1120130000 | HDC HP 250 SHOCKPROTEC | H.7 |
| 1120140000 | HDC HP 550 SHOCKPROTEC | H.13 |
| 1120140000 | HDC HP 550 SHOCKPROTEC | H.15 |
| 1120580000 | HDC HP 550 M 185 | H.12 |
| 1120580000 | HDC HP 550 M 185 | H.14 |
| 1120580000 | HDC HP 550 M 185 | J.7 |
| 1120590000 | HDC HP 550 M 240 | H.12 |
| 1120590000 | HDC HP 550 M 240 | H.14 |
| 1120590000 | HDC HP 550 M 240 | J.7 |
| 1120600000 | HDC HP 550 F 240 | H.12 |
| 1120600000 | HDC HP 550 F 240 | H.14 |
| 1120600000 | HDC HP 550 F 240 | J.7 |

## 1150000000

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| 1157800000 | HDC HP 550 M 50 | H.12 |
| 1157800000 | HDC HP 550 M 50 | H.14 |
| 1157800000 | HDC HP 550 M 50 | J.7 |

## 1160000000

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| 1160430000 | HDC 24B HP250 MPL4 TYP1 | H.7 |
| 1160440000 | HDC 24B HP250 MPL4 TYP2 | H.7 |
| 1160450000 | HDC IP68 24B MD 4M25 T1 | H.7 |
| 1160780000 | HDC HP CODING SYSTEM | H.14 |
| 1160780000 | HDC HP CODING SYSTEM | J.12 |
| 1165790000 | HDC 32B DDDQ 4B0 | D.34 |
| 1168850000 | HDC FIXING SC SIZE1 M3x6 | J.18 |

## 1170000000

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| 1177100000 | HDC HP 550 F 50 | H.14 |
| 1177100000 | HDC HP 550 F 50 | J.7 |

## 1190000000

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| 1193570000 | VGM25-SS68 11-20 BG | H.16 |
| 1193570000 | VGM25-SS68 11-20 BG | J.48 |
| 1193580000 | VGM32-SS68 15-25 BG | H.8 |
| 1193580000 | VGM32-SS68 15-25 BG | H.16 |
| 1193580000 | VGM32-SS68 15-25 BG | J.48 |
| 1193590000 | VGM40-SS68 20-32 BG | H.8 |
| 1193590000 | VGM40-SS68 20-32 BG | H.16 |
| 1193590000 | VGM40-SS68 20-32 BG | J.48 |
| 1193600000 | VGM25-MS68 11-20 BG | H.8 |
| 1193600000 | VGM25-MS68 11-20 BG | H.16 |
| 1193600000 | VGM25-MS68 11-20 BG | J.43 |
| 1193610000 | VGM32-MS68 15-25 BG | H.8 |
| 1193610000 | VGM32-MS68 15-25 BG | H.16 |
| 1193610000 | VGM32-MS68 15-25 BG | J.43 |
| 1193620000 | VGM40-MS68 20-32 BG | H.8 |
| 1193620000 | VGM40-MS68 20-32 BG | H.16 |
| 1193620000 | VGM40-MS68 20-32 BG | J.43 |

## 1200000000

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| 1200000000 | HDC HE 6 MS | I.8 |
| 1200000000 | HDC HE 6 MS | I.9 |
| 1200200000 | HDC HE 6 FS | B.20 |
| 1200200000 | HDC HE 6 FS | I.8 |
| 1200200000 | HDC HE 6 FS | I.9 |
| 1200400000 | HDC HE 6 MC | B.20 |
| 1200500000 | HDC-C-HE-SM0.5AG | B.10 |
| 1200500000 | HDC-C-HE-SM0.5AG | B.12 |
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| 1200500000 | HDC-C-HE-SM0.5AG | B.24 |
| 1200500000 | HDC-C-HE-SM0.5AG | B.26 |
| 1200500000 | HDC-C-HE-SM0.5AG | B.28 |
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| 1200500000 | HDC-C-HE-SM0.5AG | B.36 |
| 1200500000 | HDC-C-HE-SM0.5AG | B.38 |
| 1200500000 | HDC-C-HE-SM0.5AG | B.40 |
| 1200500000 | HDC-C-HE-SM0.5AG | B.42 |
| 1200500000 | HDC-C-HE-SM0.5AG | B.44 |
| 1200500000 | HDC-C-HE-SM0.5AG | B.96 |
| 1200500000 | HDC-C-HE-SM0.5AG | B.102 |
| 1200500000 | HDC-C-HE-SM0.5AG | B.114 |
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| 1200500000 | HDC-C-HE-SM0.5AG | C.14 |
| 1200500000 | HDC-C-HE-SM0.5AG | C.15 |
| 1200500000 | HDC-C-HE-SM0.5AG | C.16 |
| 1200500000 | HDC-C-HE-SM0.5AG | J.4 |
| 1200600000 | HDC-C-HE-SM0.75-1.00AG | B.10 |
| 1200600000 | HDC-C-HE-SM0.75-1.00AG | B.12 |

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| 1200900000 | HDC-C-HE-SM4.0AG | J.4 |
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| 1201100000 | HDC-C-HE-BM0.5AG | B.14 |
| 1201100000 | HDC-C-HE-BM0.5AG | B.16 |

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| 1201400000 | HDC-C-HE-BM2.5AG | B.40 |
| 1201400000 | HDC-C-HE-BM2.5AG | B.42 |
| 1201400000 | HDC-C-HE-BM2.5AG | B.44 |
| 1201400000 | HDC-C-HE-BM2.5AG | B.96 |
| 1201400000 | HDC-C-HE-BM2.5AG | B.102 |
| 1201400000 | HDC-C-HE-BM2.5AG | B.114 |
| 1201400000 | HDC-C-HE-BM2.5AG | C.13 |
| 1201400000 | HDC-C-HE-BM2.5AG | C.14 |
| 1201400000 | HDC-C-HE-BM2.5AG | C.15 |
| 1201400000 | HDC-C-HE-BM2.5AG | C.16 |
| 1201400000 | HDC-C-HE-BM2.5AG | J.4 |
| 1201500000 | HDC-C-HE-BM4.0AG | B.10 |
| 1201500000 | HDC-C-HE-BM4.0AG | B.12 |
| 1201500000 | HDC-C-HE-BM4.0AG | B.14 |
| 1201500000 | HDC-C-HE-BM4.0AG | B.16 |
| 1201500000 | HDC-C-HE-BM4.0AG | B.20 |
| 1201500000 | HDC-C-HE-BM4.0AG | B.22 |
| 1201500000 | HDC-C-HE-BM4.0AG | B.24 |

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| 1201500000 | HDC-C-HE-BM4.0AG | B.26 |
| 1201500000 | HDC-C-HE-BM4.0AG | B.28 |
| 1201500000 | HDC-C-HE-BM4.0AG | B.30 |
| 1201500000 | HDC-C-HE-BM4.0AG | B.34 |
| 1201500000 | HDC-C-HE-BM4.0AG | B.36 |
| 1201500000 | HDC-C-HE-BM4.0AG | B.38 |
| 1201500000 | HDC-C-HE-BM4.0AG | B.40 |
| 1201500000 | HDC-C-HE-BM4.0AG | B.42 |
| 1201500000 | HDC-C-HE-BM4.0AG | B.44 |
| 1201500000 | HDC-C-HE-BM4.0AG | B.96 |
| 1201500000 | HDC-C-HE-BM4.0AG | B.102 |
| 1201500000 | HDC-C-HE-BM4.0AG | B.114 |
| 1201500000 | HDC-C-HE-BM4.0AG | C.13 |
| 1201500000 | HDC-C-HE-BM4.0AG | C.14 |
| 1201500000 | HDC-C-HE-BM4.0AG | C.15 |
| 1201500000 | HDC-C-HE-BM4.0AG | C.16 |
| 1201500000 | HDC-C-HE-BM4.0AG | J.4 |
| 1202100000 | HDC 06B ALU | B.21 |
| 1202100000 | HDC 06B ALU | B.35 |
| 1202100000 | HDC 06B ALU | B.69 |
| 1202100000 | HDC 06B ALU | B.113 |
| 1202100000 | HDC 06B ALU | D.13 |
| 1202100000 | HDC 06B ALU | I.8 |
| 1202100000 | HDC 06B ALU | I.9 |
| 1202100000 | HDC 06B ALU | I.10 |
| 1202100000 | HDC 06B ALU | I.11 |
| 1202230000 | HDC 40D TSBO 1M40G | D.24 |
| 1202500000 | HDC 06B ADLU | B.21 |
| 1202500000 | HDC 06B ADLU | B.35 |
| 1202500000 | HDC 06B ADLU | B.69 |
| 1202500000 | HDC 06B ADLU | B.113 |
| 1202500000 | HDC 06B ADLU | D.13 |
| 1202660000 | HDC CM GUIDING PIN | J.11 |
| 1202670000 | HDC CM GUIDING SOCKET | J.11 |
| 1203600000 | SPB-M 3 | J.10 |
| 1203900000 | HDC HE 10 MS | B.22 |
| 1203900000 | HDC HE 10 MS | I.12 |
| 1203900000 | HDC HE 10 MS | I.13 |
| 1204100000 | HDC HE 10 FS | B.22 |
| 1204100000 | HDC HE 10 FS | I.12 |
| 1204100000 | HDC HE 10 FS | I.13 |
| 1204300000 | HDC HE 10 MC | B.22 |
| 1204400000 | HDC HE 10 FC | B.22 |
| 1205000000 | HDC 10B ABU | B.23 |
| 1205000000 | HDC 10B ABU | B.37 |
| 1205000000 | HDC 10B ABU | B.71 |
| 1205000000 | HDC 10B ABU | B.83 |
| 1205000000 | HDC 10B ABU | B.115 |
| 1205000000 | HDC 10B ABU | D.15 |
| 1205000000 | HDC 10B ABU | I.12 |
| 1205000000 | HDC 10B ABU | I.13 |
| 1205000000 | HDC 10B ABU | I.14 |
| 1205000000 | HDC 10B ABU | I.15 |
| 1205600000 | HDC 10B ADBO | D.17 |
| 1205890000 | VGM40/1-MS68 20-32 BG | H.8 |
| 1205890000 | VGM40/1-MS68 20-32 BG | J.43 |
| 1205920000 | VGM40/1-SS68 20-32 BG | H.8 |
| 1205920000 | VGM40/1-SS68 20-32 BG | J.48 |
| 1206090000 | HDC 04A TOLU 1M16G | D.6 |
| 1206100000 | HDC 10B ALU | D.16 |
| 1206500000 | HDC 10B ADLU | D.16 |
| 1207500000 | HDC HE 16 MS | B.24 |
| 1207500000 | HDC HE 16 MS | B.28 |
| 1207500000 | HDC HE 16 MS | I.16 |
| 1207500000 | HDC HE 16 MS | I.17 |
| 1207500000 | HDC HE 16 MS | I.24 |
| 1207500000 | HDC HE 16 MS | I.25 |
| 1207700000 | HDC HE 16 FS | B.24 |
| 1207700000 | HDC HE 16 FS | B.28 |
| 1207700000 | HDC HE 16 FS | I.16 |
| 1207700000 | HDC HE 16 FS | I.17 |
| 1207700000 | HDC HE 16 FS | I.24 |
| 1207700000 | HDC HE 16 FS | I.25 |
| 1207900000 | HDC HE 16 MC | B.24 |
| 1207900000 | HDC HE 16 MC | B.28 |
| 1208000000 | HDC HE 16 FC | B.24 |
| 1208000000 | HDC HE 16 FC | B.28 |
| 1208380000 | HDC 40D TOBU 2M25 | D.21 |
| 1208600000 | HDC 16B ABU | B.25 |
| 1208600000 | HDC 16B ABU | B.39 |
| 1208600000 | HDC 16B ABU | B.41 |
| 1208600000 | HDC 16B ABU | B.57 |
| 1208600000 | HDC 16B ABU | B.73 |
| 1208600000 | HDC 16B ABU | B.85 |
| 1208600000 | HDC 16B ABU | B.91 |
| 1208600000 | HDC 16B ABU | B.117 |
| 1208600000 | HDC 16B ABU | B.119 |
| 1208600000 | HDC 16B ABU | B.121 |
| 1208600000 | HDC 16B ABU | B.123 |
| 1208600000 | HDC 16B ABU | B.125 |
| 1208600000 | HDC 16B ABU | D.22 |
| 1208600000 | HDC 16B ABU | I.16 |
| 1208600000 | HDC 16B ABU | I.17 |
| 1208600000 | HDC 16B ABU | I.18 |
| 1208600000 | HDC 16B ABU | I.19 |
| 1208600000 | HDC 16B ABU | I.28 |
| 1209200000 | HDC 16B ADBO | D.24 |
| 1209700000 | HDC 16B ALU | D.23 |

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| 1210100000 | HDC 16B ADLU | D.23 |
| 1211100000 | HDC HE 24 MS | B.26 |
| 1211100000 | HDC HE 24 MS | B.30 |
| 1211100000 | HDC HE 24 MS | I.20 |
| 1211100000 | HDC HE 24 MS | I.21 |
| 1211100000 | HDC HE 24 MS | I.26 |
| 1211100000 | HDC HE 24 MS | I.27 |
| 1211300000 | HDC HE 24 FS | B.26 |
| 1211300000 | HDC HE 24 FS | B.30 |
| 1211300000 | HDC HE 24 FS | I.20 |
| 1211300000 | HDC HE 24 FS | I.21 |
| 1211300000 | HDC HE 24 FS | I.26 |
| 1211300000 | HDC HE 24 FS | I.27 |
| 1211500000 | HDC HE 24 MC | B.26 |
| 1211500000 | HDC HE 24 MC | B.30 |
| 1211600000 | HDC HE 24 FC | B.26 |
| 1211600000 | HDC HE 24 FC | B.30 |
| 1212400000 | HDC 24B ABU | B.27 |
| 1212400000 | HDC 24B ABU | B.43 |
| 1212400000 | HDC 24B ABU | B.61 |
| 1212400000 | HDC 24B ABU | B.75 |
| 1212400000 | HDC 24B ABU | B.87 |
| 1212400000 | HDC 24B ABU | B.127 |
| 1212400000 | HDC 24B ABU | B.129 |
| 1212400000 | HDC 24B ABU | B.131 |
| 1212400000 | HDC 24B ABU | D.28 |
| 1212400000 | HDC 24B ABU | I.20 |
| 1212400000 | HDC 24B ABU | I.21 |
| 1212400000 | HDC 24B ABU | I.22 |
| 1212400000 | HDC 24B ABU | I.23 |
| 1212890000 | HDC 24B HP250 MPL4PE T1 | H.7 |
| 1212910000 | HDC 24B HP250 MPL4PE T2 | H.7 |
| 1213300000 | HDC 24B ADBO | D.31 |
| 1213900000 | HDC 24B ALU | D.30 |
| 1214300000 | HDC 24B ADLU | D.30 |
| 1214500000 | HDC 24B SDLU 2PG21G | D.30 |
| 1215700000 | HDC HE 16 MS 17-32 | B.28 |
| 1215700000 | HDC HE 16 MS 17-32 | I.24 |
| 1215700000 | HDC HE 16 MS 17-32 | I.25 |
| 1215900000 | HDC 06B DC | J.24 |
| 1215910000 | HDC 10B DC | J.24 |
| 1215920000 | HDC 16B DC | J.24 |
| 1215930000 | HDC 24B DC | J.24 |
| 1216100000 | HDC HE 16 FS 17-32 | B.28 |
| 1216100000 | HDC HE 16 FS 17-32 | I.24 |
| 1216100000 | HDC HE 16 FS 17-32 | I.25 |
| 1216500000 | HDC HE 16 MC 17-32 | B.28 |
| 1216700000 | HDC HE 16 FC 17-32 | B.28 |
| 1217800000 | HDC 32B ABU | D.34 |
| 1217800000 | HDC 32B ABU | I.24 |
| 1217800000 | HDC 32B ABU | I.25 |
| 1218800000 | HDC 32B ADBO | D.36 |
| 1219300000 | HDC 32B TOLU 1PG29G | D.35 |
| 1219500000 | HDC 32B ALU | B.29 |
| 1219500000 | HDC 32B ALU | B.45 |
| 1219500000 | HDC 32B ALU | B.63 |
| 1219500000 | HDC 32B ALU | B.77 |
| 1219500000 | HDC 32B ALU | B.93 |
| 1219500000 | HDC 32B ALU | D.35 |
| 1219800000 | HDC 32B ADLU | B.29 |
| 1219800000 | HDC 32B ADLU | B.45 |
| 1219800000 | HDC 32B ADLU | B.63 |
| 1219800000 | HDC 32B ADLU | B.77 |
| 1219800000 | HDC 32B ADLU | B.93 |
| 1219800000 | HDC 32B ADLU | D.35 |

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| 1220570000 | HDC HP 550 F 25 | H.12 |
| 1220570000 | HDC HP 550 F 25 | H.14 |
| 1220570000 | HDC HP 550 F 25 | J.7 |
| 1220580000 | HDC HP 550 M 25 | H.12 |
| 1220580000 | HDC HP 550 M 25 | H.14 |
| 1220580000 | HDC HP 550 M 25 | J.7 |
| 1220800000 | HDC HE 24 MS 25-48 | B.30 |
| 1220800000 | HDC HE 24 MS 25-48 | I.26 |
| 1220800000 | HDC HE 24 MS 25-48 | I.27 |
| 1220840000 | HDC HP 250 F 50 PE | H.6 |
| 1220840000 | HDC HP 250 F 50 PE | J.6 |
| 1220850000 | HDC HP 250 M 50 PE | H.6 |
| 1220850000 | HDC HP 250 M 50 PE | J.6 |
| 1220860000 | HDC IP68 24B MD 4M25 T2 | H.7 |
| 1221200000 | HDC HE 24 FS 25-48 | B.30 |
| 1221200000 | HDC HE 24 FS 25-48 | I.26 |
| 1221200000 | HDC HE 24 FS 25-48 | I.27 |
| 1222900000 | HDC 48B ADLU | B.31 |
| 1222900000 | HDC 48B ADLU | B.65 |
| 1222900000 | HDC 48B ADLU | B.79 |
| 1222900000 | HDC 48B ADLU | D.37 |
| 1222900000 | HDC 48B ADLU | I.26 |
| 1222900000 | HDC 48B ADLU | I.27 |
| 1226400000 | HDC HE 24 MC 25-48 | B.30 |
| 1226600000 | HDC HE 24 FC 25-48 | B.30 |
| 1229120000 | HDC 40D TOBU 1M32G1M20G | D.21 |

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| 1251660000 | HDC HQP DMD 2BO CS | D.8 |
| 1251660000 | HDC HQP DMD 2BO CS | D.9 |
| 1251670000 | HDC HQP DOD 2BO CS | D.8 |
| 1251670000 | HDC HQP DOD 2BO CS | D.9 |
| 1251680000 | HDC HQM ALU CS | D.9 |

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| 1268810000 | HDC HP 550 M 70 | H.12 |
| 1268810000 | HDC HP 550 M 70 | H.14 |
| 1268810000 | HDC HP 550 M 70 | J.7 |
| 1268820000 | HDC HP 550 F 70 | H.12 |
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| 1268820000 | HDC HP 550 F 70 | J.7 |

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| 1270320000 | CTX CM 3.6 ZERT | J.27 |
| 1273890000 | VG 16 HQ K68 6.5-9.5 | J.49 |

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| 1282820000 | HDC IP68 24B HP FRAME | H.6 |
| 1282820000 | HDC IP68 24B HP FRAME | H.12 |
| 1288190000 | HDC IP68 06B TOS 1M32 CS | F.5 |
| 1289130000 | HDC IP68 24B TOS 2M40 TSS 1M32 | F.8 |

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| 1295600000 | HDC 48B ALU | D.37 |

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| 1301990000 | HDC 32B SBU 2M40G CS | D.34 |

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| 1323880000 | SD TO 0,6X3,0 | J.33 |
| 1324500000 | HDC IP68 24B COVER CS | H.6 |
| 1324500000 | HDC IP68 24B COVER CS | H.12 |

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| Order No. | Type | Page |
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| 1336600000 | HDC 24D TOBU 2M20G | D.14 |

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| 1354950000 | HDC HQP ALU CS | D.8 |

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| 1415410000 | HDC HP 250 M CM3 | H.8 |
| 1415420000 | HDC HP 250 F CM3 | H.8 |

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| 1428840000 | HDC MHD 12 MC | C.22 |
| 1428850000 | HDC MHD 12 FC | C.22 |
| 1428860000 | HDC MHD 36 MC | C.21 |
| 1428870000 | HDC MHD 36 FC | C.21 |
| 1428880000 | HDC MHE 8 MC | C.15 |
| 1428890000 | HDC MHE 8 FC | C.15 |
| 1428910000 | HDC MHE 20 MC | C.14 |
| 1428920000 | HDC MF 6B AB | C.6 |
| 1428930000 | HDC MHE 20 FC | C.14 |
| 1428940000 | HDC MF 6B BA | C.6 |
| 1428950000 | HDC MHX 4P MC | C.11 |
| 1428960000 | HDC MF 10B AC | C.6 |
| 1428970000 | HDC MHX 4P FC | C.11 |
| 1428980000 | HDC MF 10B CA | C.6 |
| 1428990000 | HDC MBUS 2 MC | C.23 |
| 1429010000 | HDC MF 16B AD | C.7 |
| 1429020000 | HDC MBUS 2 FC | C.23 |
| 1429030000 | HDC MF 16B DA | C.7 |
| 1429040000 | HDC MDU | C.24 |
| 1429050000 | HDC MF 24B AF | C.7 |
| 1429060000 | HDC MHP 100 MC | C.9 |
| 1429070000 | HDC MF 24B FA | C.7 |
| 1429080000 | HDC MHP 100 FC | C.9 |
| 1429340000 | HDC MHX 3 MC | C.12 |
| 1429350000 | HDC MHX 3 FC | C.12 |
| 1429360000 | HDC MHE 6 MC | C.16 |
| 1429370000 | HDC MHE 6 FC | C.16 |

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| 1435410000 | HDC MSL6 | J.16 |
| 1435420000 | HDC MSL10 | J.16 |
| 1435430000 | HDC MSL16 | J.16 |
| 1435440000 | HDC MSL24 | J.16 |
| 1435750000 | HDC MHP100 M 10 | C.9 |
| 1435760000 | HDC MHP100 M 16 | C.9 |
| 1435770000 | HDC MHP100 M 25 | C.9 |
| 1435780000 | HDC MHP100 M 35 | C.9 |
| 1435790000 | HDC MHP100 F 10 | C.9 |
| 1435810000 | HDC MHP100 F 16 | C.9 |
| 1435820000 | HDC MHP100 F 25 | C.9 |
| 1435830000 | HDC MHP100 F 35 | C.9 |

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| 1444680000 | HDC GRIP PANEL 3 ADAPT | J.19 |
| 1444710000 | HDC GRIP PANEL 4 ADAPT | J.19 |
| 1444720000 | HDC GRIP PANEL 6 ADAPT | J.19 |
| 1444730000 | HDC GRIP PANEL 8 ADAPT | J.19 |

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| 1463720000 | VGM25-MS68 EMC 11-20SET | H.13 |
| 1463720000 | VGM25-MS68 EMC 11-20SET | J.46 |
| 1463730000 | VGM32-MS68 EMC 15-25SET | H.7 |
| 1463730000 | VGM32-MS68 EMC 15-25SET | H.13 |
| 1463730000 | VGM32-MS68 EMC 15-25SET | J.46 |

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| 1471500000 | DSTV COBU5 | J.11 |
| 1477740000 | KSPMH M16 BSC | J.58 |
| 1477750000 | KSPMH M20 BSC | J.58 |
| 1477770000 | KSPMH M25 BSC | J.58 |
| 1477780000 | KSPMH M32 BSC | J.58 |
| 1477790000 | KSPMH M40 BSC | J.58 |
| 1477800000 | KSPMH M50 BSC | J.58 |
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| 1477840000 | KSPMH M20 SSC | J.58 |
| 1477870000 | KSPMH M25 SSC | J.58 |
| 1477890000 | KSPMH M32 SSC | J.58 |
| 1477910000 | KSPMH M40 SSC | J.58 |
| 1477930000 | KSPMH M50 SSC | J.58 |
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| 1480290000 | HDC MF FIXING | C.7 |
| 1480380000 | HDC MHP REMOVAL TOOL | C.9 |
| 1480380000 | HDC MHP REMOVAL TOOL | J.35 |
| 1480940000 | HDC MF CA16 PE | J.16 |

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| 1497600000 | HDC 04A ALU | B.9 |
| 1497600000 | HDC 04A ALU | B.97 |
| 1497600000 | HDC 04A ALU | B.99 |
| 1497600000 | HDC 04A ALU | D.7 |
| 1497600000 | HDC 04A ALU | I.4 |
| 1497600000 | HDC 04A ALU | I.5 |
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| 1497700000 | HDC 04A AWLU | D.7 |
| 1497700000 | HDC 04A AWLU | I.4 |
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| 1497700000 | HDC 04A AWLU | I.6 |
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| 1498100000 | HDC HA 3 MS | B.6 |
| 1498100000 | HDC HA 3 MS | I.4 |
| 1498100000 | HDC HA 3 MS | I.5 |
| 1498200000 | HDC HA 3 FS | B.6 |
| 1498200000 | HDC HA 3 FS | I.4 |
| 1498200000 | HDC HA 3 FS | I.5 |
| 1498300000 | HDC HA 4 MS | B.8 |
| 1498300000 | HDC HA 4 MS | I.6 |
| 1498300000 | HDC HA 4 MS | I.7 |
| 1498400000 | HDC HA 4 FS | B.8 |
| 1498400000 | HDC HA 4 FS | I.6 |
| 1498400000 | HDC HA 4 FS | I.7 |
| 1498700000 | HDC HSB 6 MS | B.90 |
| 1498700000 | HDC HSB 6 MS | B.92 |
| 1498700000 | HDC HSB 6 MS | I.28 |
| 1498800000 | HDC HSB 6 MS 7 - 12 | B.92 |
| 1498900000 | HDC HSB 6 FS | B.90 |
| 1498900000 | HDC HSB 6 FS | B.92 |
| 1498900000 | HDC HSB 6 FS | I.28 |
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| 1500830000 | EPG 45 | C.9 |
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| 1500830000 | EPG 45 | H.16 |
| 1500830000 | EPG 45 | J.28 |
| 1500930000 | ES EPG 45 HEX 6 | H.8 |
| 1500930000 | ES EPG 45 HEX 6 | H.16 |
| 1500930000 | ES EPG 45 HEX 6 | J.28 |
| 1500940000 | ES EPG 45 HEX 10/70 | H.8 |
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| 1500950000 | ES EPG 45 HEX 16/35 | H.8 |

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| 1500950000 | ES EPG 45 HEX 16/35 | H.16 |
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| 1500970000 | ES EPG 45 HEX 25/50 | H.8 |
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| 1500980000 | ES EPG 45 HEX 95 | H.8 |
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| 1502390000 | APG 80 | H.9 |
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| 1502600000 | ES APG 80 HEX 6 | H.9 |
| 1502600000 | ES APG 80 HEX 6 | H.16 |
| 1502600000 | ES APG 80 HEX 6 | J.28 |
| 1502620000 | ES APG 80 HEX 10 | H.9 |
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| 1502650000 | ES APG 80 HEX 35 | H.16 |
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| 1502700000 | ES APG 80 HEX 120 | J.28 |
| 1502720000 | ES APG 80 HEX 150 | H.9 |
| 1502720000 | ES APG 80 HEX 150 | H.16 |
| 1502720000 | ES APG 80 HEX 150 | J.28 |
| 1502730000 | ES APG 80 HEX 185 | H.9 |
| 1502730000 | ES APG 80 HEX 185 | H.16 |
| 1502730000 | ES APG 80 HEX 185 | J.28 |
| 1502740000 | ES APG 80 HEX 240 | H.9 |
| 1502740000 | ES APG 80 HEX 240 | H.16 |
| 1502740000 | ES APG 80 HEX 240 | J.28 |
| 1502750000 | ES APG 80 HEX 300 | H.9 |
| 1502750000 | ES APG 80 HEX 300 | H.16 |
| 1502750000 | ES APG 80 HEX 300 | J.28 |
| 1505650000 | HDC MHE 6P MC | C.13 |
| 1505660000 | HDC MHE 6P FC | C.13 |

## 1510000000

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| 1513390000 | HDC IP68 04A TOS 1M25G | B.101 |
| 1513390000 | HDC IP68 04A TOS 1M25G | F.4 |

## 1520000000

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| 1528370000 | HDC HEEE 40 MC | B.40 |
| 1528380000 | HDC HEEE 40 FC | B.40 |

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| 1568970000 | VG 7-K68 | J.40 |
| 1568980000 | VG 9-K68 | J.40 |
| 1568990000 | VG 11-K68 | I.5 |
| 1568990000 | VG 11-K68 | I.7 |
| 1568990000 | VG 11-K68 | J.40 |
| 1569000000 | VG 13.5-K68 | J.40 |
| 1569010000 | VG 16-K68 | J.40 |
| 1569020000 | VG 21-K68 | J.40 |
| 1569030000 | VG 29-K68 | J.40 |
| 1569040000 | VG 36-K68 | J.40 |
| 1569050000 | VG 42-K68 | J.40 |
| 1569060000 | VG 7-MS68 | J.42 |
| 1569070000 | VG 9-MS68 | J.42 |
| 1569080000 | VG 11-MS68 | I.5 |
| 1569080000 | VG 11-MS68 | I.7 |
| 1569080000 | VG 11-MS68 | J.42 |
| 1569090000 | VG 13,5-MS68 | J.42 |
| 1569100000 | VG 16-MS68 | I.9 |
| 1569100000 | VG 16-MS68 | I.11 |
| 1569100000 | VG 16-MS68 | I.13 |
| 1569100000 | VG 16-MS68 | I.15 |
| 1569100000 | VG 16-MS68 | J.42 |
| 1569110000 | VG 21-MS68 | I.17 |
| 1569110000 | VG 21-MS68 | I.19 |
| 1569110000 | VG 21-MS68 | I.21 |
| 1569110000 | VG 21-MS68 | I.23 |
| 1569110000 | VG 21-MS68 | I.28 |
| 1569110000 | VG 21-MS68 | J.42 |
| 1569120000 | VG 29-MS68 | I.25 |
| 1569120000 | VG 29-MS68 | I.27 |
| 1569120000 | VG 29-MS68 | J.42 |

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| 1569130000 | VG 36-MS68 | J.42 |
| 1569140000 | VG 42-MS68 | J.42 |

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| 1595220000 | DSTV TS 6-24 | J.20 |
| 1595230000 | DSTV TS 6 VH | J.20 |
| 1595240000 | DSTV TS 10-24 VH | J.20 |

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| 1601710000 | HDC HD 40 MC | B.56 |
| 1601710000 | HDC HD 40 MC | B.62 |
| 1601720000 | HDC HD 64 MC | B.60 |
| 1601720000 | HDC HD 64 MC | B.64 |
| 1601730000 | HDC HD 40 FC | B.56 |
| 1601730000 | HDC HD 40 FC | B.62 |
| 1601740000 | HDC HD 64 FC | B.60 |
| 1601740000 | HDC HD 64 FC | B.64 |
| 1601750000 | HDC-C-HD-SM0.75-1.00AG | B.48 |
| 1601750000 | HDC-C-HD-SM0.75-1.00AG | B.50 |
| 1601750000 | HDC-C-HD-SM0.75-1.00AG | B.52 |
| 1601750000 | HDC-C-HD-SM0.75-1.00AG | B.54 |
| 1601750000 | HDC-C-HD-SM0.75-1.00AG | B.56 |
| 1601750000 | HDC-C-HD-SM0.75-1.00AG | B.58 |
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| 1601750000 | HDC-C-HD-SM0.75-1.00AG | B.70 |
| 1601750000 | HDC-C-HD-SM0.75-1.00AG | B.72 |
| 1601750000 | HDC-C-HD-SM0.75-1.00AG | B.74 |
| 1601750000 | HDC-C-HD-SM0.75-1.00AG | B.76 |
| 1601750000 | HDC-C-HD-SM0.75-1.00AG | B.78 |
| 1601750000 | HDC-C-HD-SM0.75-1.00AG | B.98 |
| 1601750000 | HDC-C-HD-SM0.75-1.00AG | B.100 |
| 1601750000 | HDC-C-HD-SM0.75-1.00AG | B.104 |
| 1601750000 | HDC-C-HD-SM0.75-1.00AG | B.106 |
| 1601750000 | HDC-C-HD-SM0.75-1.00AG | B.114 |
| 1601750000 | HDC-C-HD-SM0.75-1.00AG | B.120 |
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| 1601750000 | HDC-C-HD-SM0.75-1.00AG | C.22 |
| 1601750000 | HDC-C-HD-SM0.75-1.00AG | J.4 |
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| 1601760000 | HDC-C-HD-BM0.75-1.00AG | J.4 |

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| 1611350000 | HDC 24B AZO | D.32 |

## 1650000000

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| 1650570000 | HDC HD 7 MC | B.48 |
| 1650580000 | HDC HD 7 FC | B.48 |
| 1650590000 | HDC HD 8 MC | B.50 |
| 1650600000 | HDC HD 8 FC | B.50 |
| 1650610000 | HDC HA 10 MS | B.10 |
| 1650620000 | HDC HA 10 FS | B.10 |
| 1650650000 | HDC HD 15 MC | B.52 |
| 1650660000 | HDC HD 15 FC | B.52 |
| 1650770000 | HDC HA 16 MS | B.12 |
| 1650770000 | HDC HA 16 MS | B.14 |
| 1650770000 | HDC HA 16 MS | B.16 |
| 1650780000 | HDC HA 16 FS | B.12 |
| 1650780000 | HDC HA 16 FS | B.14 |
| 1650780000 | HDC HA 16 FS | B.16 |
| 1650810000 | HDC HD 25 MC | B.54 |
| 1650810000 | HDC HD 25 MC | B.58 |
| 1650820000 | HDC HD 25 FC | B.54 |
| 1650820000 | HDC HD 25 FC | B.58 |
| 1650850000 | HDC 48B TSLU 1PG29G | D.37 |
| 1650850000 | HDC 48B TSLU 1PG29G | I.27 |
| 1650860000 | HDC 48B TSLU 1PG36G | D.37 |
| 1650880000 | HDC HA 16 MS 17-32 | B.14 |
| 1650880000 | HDC HA 16 MS 17-32 | B.16 |

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| 1650900000 | HDC HA 16 FS 17-32 | B.14 |
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| 1650980000 | HDC 48B TOLU 1PG29G | D.37 |
| 1650990000 | HDC HA 16 MS 33-48 | B.16 |
| 1651000000 | HDC 48B TOLU 1PG36G | D.37 |
| 1651020000 | HDC HA 16 FS 33-48 | B.16 |
| 1651100000 | HDC 48B SLU 1PG29G | D.37 |
| 1651150000 | HDC HDD 24 MC | B.68 |
| 1651160000 | HDC HDD 24 FC | B.68 |
| 1651170000 | HDC HDD 42 MC | B.70 |
| 1651180000 | HDC HDD 42 FC | B.70 |
| 1651190000 | HDC HDD 72 MC | B.72 |
| 1651190000 | HDC HDD 72 MC | B.76 |
| 1651200000 | HDC HDD 72 FC | B.72 |
| 1651200000 | HDC HDD 72 FC | B.76 |
| 1651210000 | HDC HDD 108 MC | B.74 |
| 1651210000 | HDC HDD 108 MC | B.78 |
| 1651220000 | HDC HDD 108 FC | B.74 |
| 1651220000 | HDC HDD 108 FC | B.78 |
| 1651240000 | HDC HDD 72 MC 73-144 | B.76 |
| 1651260000 | HDC HDD 72 FC 73-144 | B.76 |
| 1651280000 | HDC HDD 108 MC 109-216 | B.78 |
| 1651300000 | HDC HDD 108 FC 109-216 | B.78 |
| 1651310000 | HDC HVE 3+2 MS | B.82 |
| 1651320000 | HDC HVE 3+2 FS | B.82 |
| 1651330000 | HDC HVE 6+2 MS | B.84 |
| 1651340000 | HDC HVE 6+2 FS | B.84 |
| 1651350000 | HDC HVE 10+2 MS | B.86 |
| 1651360000 | HDC HVE 10+2 FS | B.86 |
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| 1651510000 | HDC-C-HE-BM4.0AU | J.4 |
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| 1651520000 | HDC-C-HD-SM0.14-0.37AG | B.106 |
| 1651520000 | HDC-C-HD-SM0.14-0.37AG | B.114 |
| 1651520000 | HDC-C-HD-SM0.14-0.37AG | B.120 |
| 1651520000 | HDC-C-HD-SM0.14-0.37AG | B.124 |
| 1651520000 | HDC-C-HD-SM0.14-0.37AG | C.21 |
| 1651520000 | HDC-C-HD-SM0.14-0.37AG | C.22 |
| 1651520000 | HDC-C-HD-SM0.14-0.37AG | J.4 |
| 1651530000 | HDC-C-HD-SM0.5AG | B.48 |
| 1651530000 | HDC-C-HD-SM0.5AG | B.50 |
| 1651530000 | HDC-C-HD-SM0.5AG | B.52 |

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| 1651580000 | HDC-C-HD-BM0.5AG | B.48 |
| 1651580000 | HDC-C-HD-BM0.5AG | B.50 |

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| 1651620000 | HDC-C-HD-SM0.14-0.37AU | J.4 |
| 1651630000 | HDC-C-HD-SM0.5AU | B.48 |

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| 1651640000 | HDC-C-HD-SM0.75-1.00AU | B.48 |
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| 1651660000 | HDC-C-HD-SM2.5AU | C.22 |
| 1651660000 | HDC-C-HD-SM2.5AU | J.4 |

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| 1651670000 | HDC-C-HD-BM0.14-0.37AU | C.22 |
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| 1651700000 | HDC-C-HD-BM1.5AU | C.21 |
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| 1652380000 | HDC 07A TOLU 1PG11G | I.5 |
| 1652380000 | HDC 07A TOLU 1PG11G | I.7 |
| 1652400000 | HDC 07A TWLU 1PG11G | D.4 |
| 1652410000 | HDC 07A ALU | B.49 |
| 1652410000 | HDC 07A ALU | B.51 |
| 1652410000 | HDC 07A ALU | D.5 |
| 1652410000 | HDC 07A ALU | I.4 |
| 1652410000 | HDC 07A ALU | I.5 |
| 1652410000 | HDC 07A ALU | I.6 |
| 1652410000 | HDC 07A ALU | I.7 |
| 1652420000 | HDC 07A AWLU | D.5 |
| 1652420000 | HDC 07A AWLU | I.5 |
| 1652420000 | HDC 07A AWLU | I.6 |
| 1652420000 | HDC 07A AWLU | I.7 |
| 1652440000 | HDC 07A SLU 1PG11S | D.5 |
| 1652460000 | HDC 07A KOLU 1PG11G | D.5 |
| 1652470000 | HDC 04A TOLU 1PG11G | D.6 |
| 1652470000 | HDC 04A TOLU 1PG11G | I.5 |
| 1652470000 | HDC 04A TOLU 1PG11G | I.7 |
| 1652480000 | HDC 04A TWLU 1PG11G | D.6 |
| 1652490000 | HDC 04A SLU 1PG11G | D.7 |
| 1652500000 | HDC 04A KOLU 1PG11G | D.7 |
| 1652520000 | HDC 06B TSLU 1PG16G | D.12 |
| 1652520000 | HDC 06B TSLU 1PG16G | I.9 |
| 1652520000 | HDC 06B TSLU 1PG16G | I.11 |
| 1652560000 | HDC 16D TSLU 1PG21G | D.12 |
| 1652580000 | HDC 16D TSLU 1PG29G | D.12 |
| 1652640000 | HDC 06B TOLU 1PG16G | D.12 |
| 1652640000 | HDC 06B TOLU 1PG16G | I.9 |
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| 1652680000 | HDC 16D TOLU 1PG21G | D.12 |
| 1652700000 | HDC 16D TOLU 1PG29G | D.12 |
| 1652750000 | HDC 06B SLU 1PG16G | D.13 |
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| 1652840000 | HDC 16D SLU 2PG21G | D.13 |
| 1652980000 | HDC 06B SDLU 1PG16G | D.13 |
| 1652990000 | HDC 06B SDLU 2PG16G | D.13 |
| 1653200000 | HDC 06B KLU 1PG16G | D.13 |
| 1653230000 | HDC 16D KLU 1PG21G | D.13 |
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| 1654070000 | HDC 10B TSBU 1PG16G | I.15 |
| 1654090000 | HDC 10B TSBU 1PG21G | D.14 |
| 1654150000 | HDC 24D TSBU 1PG21G | D.14 |
| 1654170000 | HDC 24D TSBU 1PG29G | D.14 |
| 1654220000 | HDC 10B TOBU 1PG16G | D.14 |
| 1654220000 | HDC 10B TOBU 1PG16G | I.13 |
| 1654220000 | HDC 10B TOBU 1PG16G | I.15 |
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| 1654320000 | HDC 24D TOBU 1PG29G | D.14 |
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| 1654380000 | HDC 10B SBU 2PG16G | D.15 |
| 1654450000 | HDC 24D SBU 2PG21G | D.15 |
| 1654470000 | HDC 24D SBU 1PG29G | D.15 |
| 1654580000 | HDC 10B KBU 1PG16G | D.15 |
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| 1654860000 | HDC 10B TOBO 1PG16G | D.17 |
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| 1655270000 | HDC 24D TSLU 1PG29G | D.16 |
| 1655320000 | HDC 10B TOLU 1PG16G | D.16 |
| 1655360000 | HDC 24D TOLU 1PG21G | D.16 |
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| 1655470000 | HDC 10B SLU 2PG16G | D.16 |
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| 1655890000 | HDC 10B KLU 1PG16G | D.16 |
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| 1656480000 | HDC 16B TSBU 1PG21G | I.28 |
| 1656520000 | HDC 40D TSBU 1PG21G | D.21 |
| 1656540000 | HDC 40D TSBU 1PG29G | D.21 |
| 1656590000 | HDC 16B TOBU 1PG21G | D.21 |
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| 1656590000 | HDC 16B TOBU 1PG21G | I.19 |
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| 1657310000 | HDC 40D KBU 1PG21G | D.22 |
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| 1657490000 | HDC 16B TOBO 1PG21G | D.24 |
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| 1657910000 | HDC 40D TSLU 1PG29G | D.23 |
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| 1658020000 | HDC 40D TOLU 1PG29G | D.23 |
| 1658110000 | HDC 16B SLU 1PG21G | D.23 |
| 1658120000 | HDC 16B SLU 2PG21G | D.23 |
| 1658320000 | HDC 16B SDLU 1PG21G | D.23 |
| 1658330000 | HDC 16B SDLU 2PG21G | D.23 |
| 1658410000 | HDC 40D SDLU 1PG29G | D.23 |

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| 1661230000 | HDC 24B TSBU 1PG21G | I.23 |
| 1661240000 | HDC 24B TSBU 1PG29G | D.27 |
| 1661300000 | HDC 64D TSBU 1PG21G | D.27 |
| 1661320000 | HDC 64D TSBU 1PG29G | D.27 |
| 1661370000 | HDC 24B TOBU 1PG21G | D.27 |
| 1661370000 | HDC 24B TOBU 1PG21G | I.21 |
| 1661370000 | HDC 24B TOBU 1PG21G | I.23 |
| 1661380000 | HDC 24B TOBU 1PG29G | D.27 |
| 1661440000 | HDC 64D TOBU 1PG21G | D.27 |
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| 1662280000 | HDC 64D SDBO 1PG29G | D.31 |
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| 1662410000 | HDC 24B TSLU 1PG29G | D.29 |
| 1662470000 | HDC 64D TSLU 1PG21G | D.29 |
| 1662490000 | HDC 64D TSLU 1PG29G | D.29 |
| 1662540000 | HDC 24B TOLU 1PG21G | D.29 |
| 1662550000 | HDC 24B TOLU 1PG29G | D.29 |
| 1662610000 | HDC 64D TOLU 1PG21G | D.29 |
| 1662630000 | HDC 64D TOLU 1PG29G | D.29 |
| 1662720000 | HDC 24B SLU 2PG21G | D.30 |
| 1663040000 | HDC 64D SDLU 2PG29G | D.30 |
| 1663370000 | HDC 64D TSZO 1PG21G | D.32 |
| 1663390000 | HDC 64D TSZO 1PG29G | D.32 |
| 1663810000 | HDC 10A TSLU 1PG16G | D.10 |
| 1663850000 | HDC 15A TSLU 1PG16G | D.10 |
| 1663870000 | HDC 15A TSLU 1PG21G | D.10 |
| 1663930000 | HDC 10A TOLU 1PG16G | D.10 |
| 1663990000 | HDC 15A TOLU 1PG21G | D.10 |
| 1664040000 | HDC 10A ALU | B.11 |
| 1664040000 | HDC 10A ALU | B.53 |
| 1664040000 | HDC 10A ALU | D.11 |
| 1664060000 | HDC 10A ADLU | B.11 |
| 1664060000 | HDC 10A ADLU | B.53 |
| 1664060000 | HDC 10A ADLU | D.11 |
| 1664170000 | HDC 10A SLU 1PG16G | D.11 |
| 1664190000 | HDC 10A SLU 2PG16G | D.11 |
| 1664210000 | HDC 10A SLU 1PG21G | D.11 |
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| 1664350000 | ABD-3-GR | J.22 |
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| 1664730000 | HDC 25A TSLU 1PG16G | D.19 |
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| 1664990000 | ADP-8/3-GR | J.22 |
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| 1665090000 | HDC 16A SLU 1PG21G | D.19 |
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| 1665200000 | HDC 06B DODL 2BO | B.35 |
| 1665200000 | HDC 06B DODL 2BO | B.69 |
| 1665200000 | HDC 06B DODL 2BO | B.113 |
| 1665200000 | HDC 06B DODL 2BO | D.13 |
| 1665210000 | HDC 06B DMDL 1LB | B.21 |
| 1665210000 | HDC 06B DMDL 1LB | B.35 |
| 1665210000 | HDC 06B DMDL 1LB | B.69 |
| 1665210000 | HDC 06B DMDL 1LB | B.113 |
| 1665210000 | HDC 06B DMDL 1LB | D.12 |
| 1665230000 | HDC 10B DODQ 4BO | B.23 |
| 1665230000 | HDC 10B DODQ 4BO | B.37 |
| 1665230000 | HDC 10B DODQ 4BO | B.71 |
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| 1665260000 | HDC 16B DODQ 4BO | B.91 |
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| 1665630000 | HDC 24B DODQ 4BO | B.87 |
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| 1665630000 | HDC 24B DODQ 4BO | B.129 |
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| 1665750000 | HDC 04A DMDL 2BO | B.97 |
| 1665750000 | HDC 04A DMDL 2BO | B.99 |
| 1665750000 | HDC 04A DMDL 2BO | D.7 |
| 1665760000 | HDC 07A DODL 2BO | B.49 |
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| 1665770000 | HDC 07A DMDL 2BO | B.51 |
| 1665770000 | HDC 07A DMDL 2BO | D.5 |
| 1665790000 | HDC 32A TOBU 1PG21G | D.25 |
| 1665810000 | HDC 32A TOBU 1PG29G | D.25 |
| 1665860000 | HDC 32A ABU | B.15 |
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| 1665880000 | HDC 10A DMDL 2BO | B.11 |
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| 1665890000 | HDC 10A DODL 1LB | D.10 |
| 1665900000 | HDC 16A DODL 1LB | B.13 |
| 1665900000 | HDC 16A DODL 1LB | B.55 |
| 1665900000 | HDC 16A DODL 1LB | D.19 |
| 1665910000 | HDC 16A DMDL 2BO | B.13 |
| 1665910000 | HDC 16A DMDL 2BO | B.55 |
| 1665910000 | HDC 16A DMDL 2BO | D.20 |
| 1665920000 | HDC 32A DODQ 4BO | D.25 |
| 1665930000 | HDC 32A DMDQ 2QB | D.25 |
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| 1666010000 | HDC 32A SBU 1PG29G | D.25 |
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| 1666210000 | ADS/6-2/15 | J.22 |
| 1666220000 | ADS/10-1/25 | J.22 |
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| 1666550000 | HDC 32A SDBO 1PG21G | D.26 |
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| 1666710000 | HDC 48A TSLU 1PG29G | D.33 |
| 1666730000 | HDC 48A TOLU 1PG29G | D.33 |
| 1666740000 | HDC 48A ALU | B.17 |
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| 1666750000 | HDC 48A ADLU | B.17 |
| 1666750000 | HDC 48A ADLU | D.33 |
| 1666770000 | HDC 48A SLU 1PG29G | D.33 |
| 1666810000 | HDC 48A SDLU 1PG29G | D.33 |
| 1666840000 | HDC 32B TSBU 1PG29G | D.34 |
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| 1682270000 | HDC-C-M3-BM4.0AG | J.5 |
| 1682280000 | HDC-C-M3-SM6.0AG | J.5 |
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| 1682300000 | HDC-C-M3-SM10.0AG | J.5 |
| 1682310000 | HDC-C-M3-BM10.0AG | J.5 |

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| 1698120000 | HDC-C-M3-SM1.5AG | J.5 |
| 1698130000 | HDC-C-M3-BM1.5AG | J.5 |
| 1698140000 | HDC-C-M3-SM2.5AG | J.5 |
| 1698150000 | HDC-C-M3-BM2.5AG | J.5 |

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| 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 |
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| 1712680000 | HDC-KIT-HE 16.121 | I.17 |
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| 1719250000 | VP 7-K54 | J.56 |
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| 1719490000 | GWDR PG21-PO | J.52 |
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| 1719600000 | GWDR PG29-NP | J.53 |
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| 1720510000 | VG 16-K68 SKS | J.41 |
| 1720520000 | VG 21-K68 SKS | J.41 |
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| 1737800000 | ADAP EX 3/4NPT-M25 | J.50 |
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| 1737890000 | ADAP EX 3NPT-M32 | J.50 |
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| 1745780000 | HDC HE 16 FT | B.24 |
| 1745780000 | HDC HE 16 FT | B.28 |
| 1745790000 | HDC HE 24 FT | B.26 |
| 1745790000 | HDC HE 24 FT | B.30 |
| 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.24 |
| 1745840000 | HDC HE 16 MT | B.28 |
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| 1745850000 | HDC HE 24 MT | B.30 |
| 1745860000 | HDC HE 16 MT 17-32 | B.28 |
| 1745870000 | HDC HE 24 MT 25-48 | B.30 |
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| 1772240000 | VG M32 - MS 68 | I.20 |
| 1772240000 | VG M32 - MS 68 | I.22 |
| 1772240000 | VG M32 - MS 68 | I.24 |
| 1772240000 | VG M32 - MS 68 | J.42 |
| 1772250000 | VG M40 - MS 68 | I.26 |
| 1772250000 | VG M40 - MS 68 | J.42 |
| 1772260000 | VG M50 - MS 68 | J.42 |
| 1772270000 | VG M63 - MS 68 | J.42 |
| 1772280000 | VG M12-1/K68 | J.40 |
| 1772290000 | VG M16 - K 68 | J.40 |
| 1772300000 | VG M20-1/K68 | I.4 |
| 1772300000 | VG M20-1/K68 | I.6 |
| 1772300000 | VG M20-1/K68 | J.40 |
| 1772310000 | VG M25 - K 68 | J.40 |
| 1772320000 | VG M32 - K 68 | J.40 |
| 1772330000 | VG M40 - K 68 | J.40 |
| 1772340000 | VG M50 - K 68 | J.40 |
| 1772350000 | VG M63-1/K68 | J.40 |
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| 1773640000 | HDC-C-HD-B-LWL1.0POF | J.8 |
| 1776700000 | VG M12-K68 SKS | J.41 |
| 1776710000 | VG M16-K68 SKS | J.41 |
| 1776720000 | VG M20-K68 SKS 10-14 | J.41 |
| 1776730000 | VG M25-K68 SKS | J.41 |
| 1776900000 | VP M25 K54 | J.56 |
| 1776910000 | VP M20 K54 | J.56 |
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| 1777930000 | GWDR M16-PO | J.52 |
| 1777940000 | GWDR M20-PO | J.52 |
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| 1777990000 | GWDR M63-PO | J.52 |
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| 1787760000 | HDC 24B TSBU 1M25G | D.27 |
| 1787770000 | HDC 24B TSBO 1M32G | D.31 |
| 1787780000 | HDC 24B TSBO 1M25G | D.31 |
| 1787790000 | HDC 24B TSLU 1M32G | D.29 |
| 1787800000 | HDC 24B TSLU 1M25G | D.29 |
| 1787810000 | HDC 24B TOBU 1M32G | B.27 |
| 1787810000 | HDC 24B TOBU 1M32G | B.43 |
| 1787810000 | HDC 24B TOBU 1M32G | B.61 |
| 1787810000 | HDC 24B TOBU 1M32G | B.75 |
| 1787810000 | HDC 24B TOBU 1M32G | B.87 |
| 1787810000 | HDC 24B TOBU 1M32G | B.127 |
| 1787810000 | HDC 24B TOBU 1M32G | B.129 |
| 1787810000 | HDC 24B TOBU 1M32G | B.131 |
| 1787810000 | HDC 24B TOBU 1M32G | D.27 |
| 1787810000 | HDC 24B TOBU 1M32G | I.20 |
| 1787810000 | HDC 24B TOBU 1M32G | I.22 |
| 1787820000 | HDC 24B TOBU 1M25G | B.27 |
| 1787820000 | HDC 24B TOBU 1M25G | B.43 |
| 1787820000 | HDC 24B TOBU 1M25G | B.61 |
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| 1787820000 | HDC 24B TOBU 1M25G | B.129 |
| 1787820000 | HDC 24B TOBU 1M25G | B.131 |
| 1787820000 | HDC 24B TOBU 1M25G | D.27 |
| 1787830000 | HDC 24B TOBO 1M32G | D.31 |
| 1787850000 | HDC 24B TOLU 1M32G | D.29 |
| 1787860000 | HDC 24B TOLU 1M25G | D.29 |
| 1787870000 | HDC 24B SBU 2M25G | B.27 |
| 1787870000 | HDC 24B SBU 2M25G | B.43 |
| 1787870000 | HDC 24B SBU 2M25G | B.61 |
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| 1787870000 | HDC 24B SBU 2M25G | B.131 |
| 1787870000 | HDC 24B SBU 2M25G | D.28 |
| 1787880000 | HDC 24B SLU 2M25G | D.30 |
| 1787900000 | HDC 24B SDLU 2M25G | D.30 |
| 1787920000 | HDC 24B KBU 1M25G | B.27 |
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| 1787920000 | HDC 24B KBU 1M25G | D.28 |
| 1787950000 | HDC 32A TSBU 1M32G | B.15 |
| 1787950000 | HDC 32A TSBU 1M32G | B.59 |
| 1787950000 | HDC 32A TSBU 1M32G | D.25 |
| 1787960000 | HDC 32A TSBU 1M25G | B.15 |
| 1787960000 | HDC 32A TSBU 1M25G | B.59 |
| 1787960000 | HDC 32A TSBU 1M25G | D.25 |
| 1787970000 | HDC 32A TSBO 1M32G | D.26 |
| 1787980000 | HDC 32A TSBO 1M25G | D.26 |
| 1787990000 | HDC 32A TOBU 1M32G | B.15 |
| 1787990000 | HDC 32A TOBU 1M32G | B.59 |
| 1787990000 | HDC 32A TOBU 1M32G | D.25 |
| 1788010000 | HDC 32A TOBO 1M32G | D.26 |
| 1788040000 | HDC 32A SBU 2M25G | B.15 |
| 1788040000 | HDC 32A SBU 2M25G | B.59 |
| 1788040000 | HDC 32A SBU 2M25G | D.25 |
| 1788050000 | HDC 32A SDBO 2M32G | D.26 |

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| 1788070000 | HDC 32A KBU 1M32G | B.59 |
| 1788070000 | HDC 32A KBU 1M32G | D.25 |
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| 1788080000 | HDC 32A KBU 1M25G | D.25 |
| 1788090000 | HDC 06B TSLU 1M25G | B.21 |
| 1788090000 | HDC 06B TSLU 1M25G | B.35 |
| 1788090000 | HDC 06B TSLU 1M25G | B.69 |
| 1788090000 | HDC 06B TSLU 1M25G | D.12 |
| 1788100000 | HDC 06B TSLU 1M20G | B.21 |
| 1788100000 | HDC 06B TSLU 1M20G | B.35 |
| 1788100000 | HDC 06B TSLU 1M20G | B.69 |
| 1788100000 | HDC 06B TSLU 1M20G | D.12 |
| 1788100000 | HDC 06B TSLU 1M20G | I.8 |
| 1788100000 | HDC 06B TSLU 1M20G | I.10 |
| 1788110000 | HDC 06B TOLU 1M25G | B.21 |
| 1788110000 | HDC 06B TOLU 1M25G | B.35 |
| 1788110000 | HDC 06B TOLU 1M25G | B.69 |
| 1788110000 | HDC 06B TOLU 1M25G | D.12 |
| 1788120000 | HDC 06B TOLU 1M20G | B.21 |
| 1788120000 | HDC 06B TOLU 1M20G | B.35 |
| 1788120000 | HDC 06B TOLU 1M20G | B.69 |
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| 1788120000 | HDC 06B TOLU 1M20G | I.8 |
| 1788120000 | HDC 06B TOLU 1M20G | I.10 |
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| 1788130000 | HDC 06B SLU 2M25G | B.35 |
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| 1788160000 | HDC 06B SDLU 2M25G | B.21 |
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| 1788180000 | HDC 16B TSBU 1M25G | B.39 |
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| 1788180000 | HDC 16B TSBU 1M25G | D.21 |
| 1788180000 | HDC 16B TSBU 1M25G | I.16 |
| 1788180000 | HDC 16B TSBU 1M25G | I.18 |
| 1788190000 | HDC 16B TSBO 1M25G | D.24 |
| 1788200000 | HDC 16B TSLU 1M25G | D.23 |
| 1788210000 | HDC 16B TOBU 1M25G | B.25 |
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| 1788210000 | HDC 16B TOBU 1M25G | I.16 |
| 1788210000 | HDC 16B TOBU 1M25G | I.18 |
| 1788220000 | HDC 16B TOBO 1M25G | D.24 |
| 1788230000 | HDC 16B TOLU 1M25G | D.23 |
| 1788240000 | HDC 16B SBU 2M25G | B.25 |
| 1788240000 | HDC 16B SBU 2M25G | B.39 |
| 1788240000 | HDC 16B SBU 2M25G | B.41 |
| 1788240000 | HDC 16B SBU 2M25G | B.57 |
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| 1788240000 | HDC 16B SBU 2M25G | B.123 |
| 1788240000 | HDC 16B SBU 2M25G | B.125 |
| 1788240000 | HDC 16B SBU 2M25G | D.22 |
| 1788250000 | HDC 16B SLU 2M25G | D.23 |
| 1788260000 | HDC 16B SDBO 2M25G | D.24 |
| 1788270000 | HDC 16B SDLU 2M25G | D.23 |
| 1788290000 | HDC 16B KLU 1M25G | D.23 |
| 1788300000 | HDC 48B TSLU 1M50G | B.31 |
| 1788300000 | HDC 48B TSLU 1M50G | B.65 |
| 1788300000 | HDC 48B TSLU 1M50G | B.79 |
| 1788300000 | HDC 48B TSLU 1M50G | D.37 |
| 1788310000 | HDC 48B TSLU 1M40G | B.31 |

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| 1788310000 | HDC 48B TSLU 1M40G | I.26 |
| 1788320000 | HDC 48B TSLU 1M32G | B.31 |
| 1788320000 | HDC 48B TSLU 1M32G | B.65 |
| 1788320000 | HDC 48B TSLU 1M32G | B.79 |
| 1788320000 | HDC 48B TSLU 1M32G | D.37 |
| 1788330000 | HDC 48B TOLU 1M50G | B.31 |
| 1788330000 | HDC 48B TOLU 1M50G | B.65 |
| 1788330000 | HDC 48B TOLU 1M50G | B.79 |
| 1788330000 | HDC 48B TOLU 1M50G | D.37 |
| 1788340000 | HDC 48B TOLU 1M40G | D.37 |
| 1788350000 | HDC 48B TOLU 1M32G | B.31 |
| 1788350000 | HDC 48B TOLU 1M32G | B.65 |
| 1788350000 | HDC 48B TOLU 1M32G | B.79 |
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| 1788360000 | HDC 48B SLU 2M40G | B.31 |
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| 1788390000 | HDC 48B SDLU 2M32G | B.79 |
| 1788390000 | HDC 48B SDLU 2M32G | D.37 |
| 1788400000 | HDC 32B TSBU 1M32G | D.34 |
| 1788400000 | HDC 32B TSBU 1M32G | I.24 |
| 1788410000 | HDC 32B TSBO 1M32G | D.36 |
| 1788420000 | HDC 32B TSLU 1M32G | B.29 |
| 1788420000 | HDC 32B TSLU 1M32G | B.45 |
| 1788420000 | HDC 32B TSLU 1M32G | B.63 |
| 1788420000 | HDC 32B TSLU 1M32G | B.77 |
| 1788420000 | HDC 32B TSLU 1M32G | B.93 |
| 1788420000 | HDC 32B TSLU 1M32G | D.35 |
| 1788430000 | HDC 32B TOBU 1M32G | D.34 |
| 1788450000 | HDC 32B TOLU 1M32G | D.35 |
| 1788460000 | HDC 32B SBU 2M32G | D.34 |
| 1788470000 | HDC 32B SLU 2M32G | B.29 |
| 1788470000 | HDC 32B SLU 2M32G | B.45 |
| 1788470000 | HDC 32B SLU 2M32G | B.63 |
| 1788470000 | HDC 32B SLU 2M32G | B.77 |
| 1788470000 | HDC 32B SLU 2M32G | B.93 |
| 1788470000 | HDC 32B SLU 2M32G | D.35 |
| 1788490000 | HDC 32B SDLU 2M32G | B.29 |
| 1788490000 | HDC 32B SDLU 2M32G | B.45 |
| 1788490000 | HDC 32B SDLU 2M32G | B.63 |
| 1788490000 | HDC 32B SDLU 2M32G | B.77 |
| 1788490000 | HDC 32B SDLU 2M32G | B.93 |
| 1788490000 | HDC 32B SDLU 2M32G | D.35 |
| 1788500000 | HDC 32B KLU 1M32G | B.29 |
| 1788500000 | HDC 32B KLU 1M32G | B.45 |
| 1788500000 | HDC 32B KLU 1M32G | B.63 |
| 1788500000 | HDC 32B KLU 1M32G | B.77 |
| 1788500000 | HDC 32B KLU 1M32G | B.93 |
| 1788500000 | HDC 32B KLU 1M32G | D.35 |
| 1788510000 | HDC 07A TWLU 1M20G | B.49 |
| 1788510000 | HDC 07A TWLU 1M20G | B.51 |
| 1788510000 | HDC 07A TWLU 1M20G | D.4 |
| 1788520000 | HDC 07A TOLU 1M20G | B.49 |
| 1788520000 | HDC 07A TOLU 1M20G | B.51 |
| 1788520000 | HDC 07A TOLU 1M20G | D.4 |
| 1788520000 | HDC 07A TOLU 1M20G | I.4 |
| 1788520000 | HDC 07A TOLU 1M20G | I.6 |
| 1788530000 | HDC 07A SLU 1M20G | B.49 |
| 1788530000 | HDC 07A SLU 1M20G | B.51 |
| 1788530000 | HDC 07A SLU 1M20G | D.5 |
| 1788540000 | HDC 07A KOLU 1M20G | B.49 |
| 1788540000 | HDC 07A KOLU 1M20G | B.51 |
| 1788540000 | HDC 07A KOLU 1M20G | D.5 |
| 1788550000 | HDC 48A TSLU 1M32G | B.17 |
| 1788550000 | HDC 48A TSLU 1M32G | D.33 |
| 1788560000 | HDC 48A TOLU 1M32G | B.17 |
| 1788560000 | HDC 48A TOLU 1M32G | D.33 |
| 1788570000 | HDC 48A SLU 2M32G | B.17 |
| 1788570000 | HDC 48A SLU 2M32G | D.33 |
| 1788610000 | HDC 10A TOLU 1M25G | B.11 |
| 1788610000 | HDC 10A TOLU 1M25G | B.53 |
| 1788610000 | HDC 10A TOLU 1M25G | D.10 |
| 1788620000 | HDC 10A TOLU 1M20G | B.11 |
| 1788620000 | HDC 10A TOLU 1M20G | B.53 |
| 1788620000 | HDC 10A TOLU 1M20G | D.10 |
| 1788630000 | HDC 10A SLU 2M25G | B.11 |
| 1788630000 | HDC 10A SLU 2M25G | B.53 |
| 1788630000 | HDC 10A SLU 2M25G | D.11 |
| 1788640000 | HDC 10A SLU 2M20G | B.11 |
| 1788640000 | HDC 10A SLU 2M20G | B.53 |
| 1788640000 | HDC 10A SLU 2M20G | D.11 |
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| 1788680000 | HDC 25A TSLU 1M20G | D.19 |
| 1788690000 | HDC 25A TSLU 1M25G | B.13 |
| 1788690000 | HDC 25A TSLU 1M25G | B.55 |
| 1788690000 | HDC 25A TSLU 1M25G | D.19 |
| 1788700000 | HDC 25A TOLU 1M25G | B.13 |
| 1788700000 | HDC 25A TOLU 1M25G | B.55 |
| 1788700000 | HDC 25A TOLU 1M25G | D.19 |
| 1788710000 | HDC 25A TOLU 1M20G | B.13 |
| 1788710000 | HDC 25A TOLU 1M20G | B.55 |
| 1788710000 | HDC 25A TOLU 1M20G | D.19 |
| 1788740000 | HDC 16A TSLU 1M25G | B.13 |
| 1788740000 | HDC 16A TSLU 1M25G | B.55 |
| 1788740000 | HDC 16A TSLU 1M25G | D.19 |
| 1788750000 | HDC 16A TOLU 1M25G | B.13 |
| 1788750000 | HDC 16A TOLU 1M25G | B.55 |
| 1788750000 | HDC 16A TOLU 1M25G | D.19 |
| 1788760000 | HDC 16A SLU 2M25G | B.13 |
| 1788760000 | HDC 16A SLU 2M25G | B.55 |
| 1788760000 | HDC 16A SLU 2M25G | D.19 |
| 1788770000 | HDC 16A SLU 2M20G | B.13 |
| 1788770000 | HDC 16A SLU 2M20G | B.55 |
| 1788770000 | HDC 16A SLU 2M20G | D.19 |
| 1788780000 | HDC 16A SDLU 2M25G | B.13 |
| 1788780000 | HDC 16A SDLU 2M25G | B.55 |
| 1788780000 | HDC 16A SDLU 2M25G | D.19 |
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| 1788790000 | HDC 16A SDLU 2M20G | B.55 |
| 1788790000 | HDC 16A SDLU 2M20G | D.19 |
| 1788800000 | HDC 16A KLU 1M25G | B.13 |
| 1788800000 | HDC 16A KLU 1M25G | B.55 |
| 1788800000 | HDC 16A KLU 1M25G | D.19 |
| 1788810000 | HDC 04A TWLU 1M20G | B.7 |
| 1788810000 | HDC 04A TWLU 1M20G | B.9 |
| 1788810000 | HDC 04A TWLU 1M20G | B.97 |
| 1788810000 | HDC 04A TWLU 1M20G | B.99 |
| 1788810000 | HDC 04A TWLU 1M20G | D.6 |
| 1788820000 | HDC 04A TOLU 1M20G | B.7 |
| 1788820000 | HDC 04A TOLU 1M20G | B.9 |
| 1788820000 | HDC 04A TOLU 1M20G | B.97 |
| 1788820000 | HDC 04A TOLU 1M20G | B.99 |
| 1788820000 | HDC 04A TOLU 1M20G | D.6 |
| 1788820000 | HDC 04A TOLU 1M20G | I.4 |
| 1788820000 | HDC 04A TOLU 1M20G | I.6 |
| 1788830000 | HDC 04A SLU 1M20G | B.7 |
| 1788830000 | HDC 04A SLU 1M20G | B.9 |
| 1788830000 | HDC 04A SLU 1M20G | B.97 |
| 1788830000 | HDC 04A SLU 1M20G | B.99 |
| 1788830000 | HDC 04A SLU 1M20G | D.7 |
| 1788840000 | HDC 04A KOLU 1M20G | B.7 |
| 1788840000 | HDC 04A KOLU 1M20G | B.9 |
| 1788840000 | HDC 04A KOLU 1M20G | B.97 |
| 1788840000 | HDC 04A KOLU 1M20G | B.99 |
| 1788840000 | HDC 04A KOLU 1M20G | D.7 |
| 1788850000 | HDC 15A TSLU 1M25G | B.11 |
| 1788850000 | HDC 15A TSLU 1M25G | B.53 |
| 1788850000 | HDC 15A TSLU 1M25G | D.10 |
| 1788860000 | HDC 15A TSLU 1M20G | B.11 |
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| 1802390000 | HDC-KIT-HE 16.121 M | I.16 |
| 1802400000 | HDC-KIT-HE 16.120 M | I.16 |
| 1802410000 | HDC-KIT-HE 10.111 M | I.12 |
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| 1802430000 | HDC-KIT-HA 04.401 M | I.6 |
| 1802440000 | HDC-KIT-HA 04.400 M | I.6 |
| 1802450000 | HDC-KIT-HA 03.302 M | I.4 |
| 1802460000 | HDC-KIT-HA 03.301 M | I.4 |
| 1802470000 | HDC-KIT-HA 03.300 M | I.4 |
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| 1802700000 | HDC KIT HA 04.402 M | I.6 |
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| 1802730000 | HDC KIT HE 06.100 M | I.8 |
| 1802740000 | HDC KIT HE 06.101 M | I.8 |
| 1804610000 | HDC 64D TSLU 1M40G | D.29 |
| 1804630000 | HDC 16B TOLU 1M32G | D.23 |
| 1804640000 | HDC 16B TSLU 1M32G | D.23 |
| 1804650000 | HDC 40D TSLU 1M40G | D.23 |
| 1804660000 | HDC 40D SLU 2M32G | D.23 |
| 1809620000 | HDC 16B TSBU 1M40G | D.21 |
| 1809630000 | HDC 64D TSBU 1M40G | D.27 |

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|---|---|---|
| 1826770000 | HDC HEE 46 MC | B.42 |
| 1826780000 | HDC HEE 46 FC | B.42 |
| 1826790000 | HDC HEE 32 MC | B.38 |
| 1826790000 | HDC HEE 32 MC | B.44 |
| 1826800000 | HDC HEE 32 FC | B.38 |
| 1826800000 | HDC HEE 32 FC | B.44 |
| 1826810000 | HDC HEE 18 MC | B.36 |
| 1826820000 | HDC HEE 18 FC | B.36 |
| 1826830000 | HDC HEE 10 MC | B.34 |
| 1826840000 | HDC HEE 10 FC | B.34 |
| 1827160000 | HDC HB 24 TEK TSS1xM50G | F.9 |
| 1827170000 | HDC HB 24 TEK TOS1xM50G | F.9 |
| 1827470000 | HDC HB 24 TEK AS M4 | F.9 |

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|---|---|---|
| 1855680000 | HDC-HB10 AWVL FD | J.23 |

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|---|---|---|
| 1866710000 | REMOVAL TOOL CM 3 | J.5 |
| 1866710000 | REMOVAL TOOL CM 3 | J.35 |
| 1866730000 | REMOVAL TOOL HD | B.48 |
| 1866730000 | REMOVAL TOOL HD | B.50 |
| 1866730000 | REMOVAL TOOL HD | B.52 |
| 1866730000 | REMOVAL TOOL HD | B.54 |
| 1866730000 | REMOVAL TOOL HD | B.56 |
| 1866730000 | REMOVAL TOOL HD | B.58 |
| 1866730000 | REMOVAL TOOL HD | B.60 |
| 1866730000 | REMOVAL TOOL HD | B.62 |
| 1866730000 | REMOVAL TOOL HD | B.64 |
| 1866730000 | REMOVAL TOOL HD | B.68 |
| 1866730000 | REMOVAL TOOL HD | B.70 |
| 1866730000 | REMOVAL TOOL HD | B.72 |
| 1866730000 | REMOVAL TOOL HD | B.74 |
| 1866730000 | REMOVAL TOOL HD | B.76 |
| 1866730000 | REMOVAL TOOL HD | B.78 |
| 1866730000 | REMOVAL TOOL HD | B.98 |
| 1866730000 | REMOVAL TOOL HD | B.100 |
| 1866730000 | REMOVAL TOOL HD | B.104 |
| 1866730000 | REMOVAL TOOL HD | B.106 |
| 1866730000 | REMOVAL TOOL HD | B.114 |
| 1866730000 | REMOVAL TOOL HD | B.120 |
| 1866730000 | REMOVAL TOOL HD | B.124 |
| 1866730000 | REMOVAL TOOL HD | C.21 |
| 1866730000 | REMOVAL TOOL HD | C.22 |
| 1866730000 | REMOVAL TOOL HD | J.4 |
| 1866730000 | REMOVAL TOOL HD | J.9 |
| 1866730000 | REMOVAL TOOL HD | J.35 |
| 1866750000 | REMOVAL TOOL HE | B.10 |
| 1866750000 | REMOVAL TOOL HE | B.12 |
| 1866750000 | REMOVAL TOOL HE | B.14 |
| 1866750000 | REMOVAL TOOL HE | B.16 |
| 1866750000 | REMOVAL TOOL HE | B.20 |
| 1866750000 | REMOVAL TOOL HE | B.22 |
| 1866750000 | REMOVAL TOOL HE | B.24 |
| 1866750000 | REMOVAL TOOL HE | B.26 |
| 1866750000 | REMOVAL TOOL HE | B.28 |
| 1866750000 | REMOVAL TOOL HE | B.30 |
| 1866750000 | REMOVAL TOOL HE | B.34 |
| 1866750000 | REMOVAL TOOL HE | B.36 |
| 1866750000 | REMOVAL TOOL HE | B.38 |
| 1866750000 | REMOVAL TOOL HE | B.40 |
| 1866750000 | REMOVAL TOOL HE | B.42 |
| 1866750000 | REMOVAL TOOL HE | B.44 |
| 1866750000 | REMOVAL TOOL HE | B.96 |
| 1866750000 | REMOVAL TOOL HE | B.102 |
| 1866750000 | REMOVAL TOOL HE | B.114 |
| 1866750000 | REMOVAL TOOL HE | C.13 |
| 1866750000 | REMOVAL TOOL HE | C.14 |
| 1866750000 | REMOVAL TOOL HE | C.15 |
| 1866750000 | REMOVAL TOOL HE | C.16 |
| 1866750000 | REMOVAL TOOL HE | J.4 |
| 1866750000 | REMOVAL TOOL HE | J.35 |
| 1867360000 | HDC SHIELD LEVER 8 SC | J.14 |
| 1867370000 | HDC SHIELD LEVER 4 SC | J.14 |
| 1867380000 | HDC SHIELD LEVER 6 SC | J.14 |
| 1867390000 | HDC SHIELD LEVER 3 SC | J.14 |
| 1868550000 | DAE M12 SS | J.60 |

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| 1873520000 | HDC HE 6 FP | B.20 |
| 1873520000 | HDC HE 6 FP | I.10 |
| 1873520000 | HDC HE 6 FP | I.11 |
| 1873530000 | HDC HE 6 MP | B.20 |
| 1873530000 | HDC HE 6 MP | I.10 |
| 1873530000 | HDC HE 6 MP | I.11 |
| 1873540000 | HDC HE 10 FP | B.22 |
| 1873540000 | HDC HE 10 FP | I.14 |
| 1873540000 | HDC HE 10 FP | I.15 |
| 1873550000 | HDC HE 10 MP | B.22 |
| 1873550000 | HDC HE 10 MP | I.14 |
| 1873550000 | HDC HE 10 MP | I.15 |
| 1873560000 | HDC HE 16 FP | B.24 |
| 1873560000 | HDC HE 16 FP | B.28 |
| 1873560000 | HDC HE 16 FP | I.18 |
| 1873560000 | HDC HE 16 FP | I.19 |
| 1873570000 | HDC HE 16 MP | B.24 |
| 1873570000 | HDC HE 16 MP | B.28 |
| 1873570000 | HDC HE 16 MP | I.18 |
| 1873570000 | HDC HE 16 MP | I.19 |
| 1873580000 | HDC HE 24 FP | B.26 |
| 1873580000 | HDC HE 24 FP | B.30 |
| 1873580000 | HDC HE 24 FP | I.22 |
| 1873580000 | HDC HE 24 FP | I.23 |
| 1873590000 | HDC HE 24 MP | B.26 |
| 1873590000 | HDC HE 24 MP | B.30 |
| 1873590000 | HDC HE 24 MP | I.22 |
| 1873590000 | HDC HE 24 MP | I.23 |
| 1873860000 | HDC HA 10 FC | B.10 |
| 1873870000 | HDC HA 10 MC | B.10 |
| 1873880000 | HDC HA 16 FC | B.12 |
| 1873880000 | HDC HA 16 FC | B.14 |
| 1873880000 | HDC HA 16 FC | B.16 |
| 1873890000 | HDC HA 16 MC | B.12 |
| 1873890000 | HDC HA 16 MC | B.14 |
| 1873890000 | HDC HA 16 MC | B.16 |
| 1875620000 | HDC HA 16 MC 17 - 32 | B.14 |
| 1875620000 | HDC HA 16 MC 17 - 32 | B.16 |
| 1875740000 | HDC HE 16 FP 17-32 | B.28 |
| 1875800000 | HDC HE 16 MP 17-32 | B.28 |
| 1875850000 | HDC HE 24 FP 25-48 | B.30 |
| 1875890000 | HDC HE 24 MP 25-48 | B.30 |
| 1876040000 | HDC HA 16 FC 17 - 32 | B.14 |
| 1876040000 | HDC HA 16 FC 17 - 32 | B.16 |

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| 1896780000 | HDC HA 10 FT | B.10 |
| 1896790000 | HDC HA 10 MT | B.10 |
| 1896800000 | HDC HA 16 FT | B.12 |
| 1896800000 | HDC HA 16 FT | B.14 |
| 1896800000 | HDC HA 16 FT | B.16 |
| 1896810000 | HDC HA 16 FT 17-32 | B.14 |
| 1896810000 | HDC HA 16 FT 17-32 | B.16 |
| 1896820000 | HDC HA 16 FT 33-48 | B.16 |
| 1896830000 | HDC HA 16 MT | B.12 |
| 1896830000 | HDC HA 16 MT | B.14 |
| 1896830000 | HDC HA 16 MT | B.16 |
| 1896840000 | HDC HA 16 MT 17-32 | B.14 |
| 1896840000 | HDC HA 16 MT 17-32 | B.16 |
| 1896850000 | HDC HA 16 MT 33-48 | B.16 |
| 1899980000 | HDC 16B SBU 1M25G | D.22 |

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| 1900080000 | HDC 16B SDBO 1M25G | D.24 |
| 1900170000 | HDC 16B SLU 1M25G | D.23 |
| 1900320000 | HDC 04A ELU 1M20G | B.7 |
| 1900320000 | HDC 04A ELU 1M20G | B.9 |
| 1900320000 | HDC 04A ELU 1M20G | B.97 |
| 1900320000 | HDC 04A ELU 1M20G | B.99 |
| 1900320000 | HDC 04A ELU 1M20G | D.7 |
| 1900330000 | HDC 04A ELU 1PG13S | D.7 |
| 1900360000 | HDC 06B SDLU 1M20G | D.13 |
| 1900380000 | HDC 06B SDLU 1M25G | D.13 |
| 1900460000 | HDC 06B SLU 1M20G | D.13 |
| 1900480000 | HDC 06B SLU 1M25G | D.13 |
| 1900820000 | HDC 16D SDLU 1M25G | D.13 |
| 1900880000 | HDC 16D SLU 1M25G | D.13 |
| 1900900000 | HDC 16D SLU 1M32G | D.13 |
| 1900990000 | HDC 07A ELU 1PG13G | B.49 |
| 1900990000 | HDC 07A ELU 1PG13G | B.51 |
| 1900990000 | HDC 07A ELU 1PG13G | D.5 |
| 1901010000 | HDC 10A SDLU 1M20G | D.11 |
| 1901040000 | HDC 10A SDLU 1M25G | D.11 |
| 1901100000 | HDC 10A SLU 1M20G | D.11 |
| 1901150000 | HDC 24B SBU 1M25G | D.28 |
| 1901160000 | HDC 10A SLU 1M25G | D.11 |
| 1901360000 | HDC 10B SBU 1M20G | D.15 |
| 1901370000 | HDC 10B SBU 1M25G | D.15 |
| 1901480000 | HDC 24B SDLU 1M25G | D.30 |
| 1901490000 | HDC 10B SDBO 1M20G | D.17 |
| 1901510000 | HDC 10B SDBO 1M25G | D.17 |
| 1901560000 | HDC 24B SLU 1M25G | D.30 |
| 1901570000 | HDC 10B SDLU 1M20G | D.16 |
| 1901620000 | HDC 10B SLU 1M20G | D.16 |
| 1901640000 | HDC 10B SLU 1M25G | D.16 |
| 1901700000 | HDC 10B AZO | D.18 |
| 1902330000 | HDC 16A SLU 1M25G | D.19 |
| 1902480000 | HDC 24B TSBU 1M40G | D.27 |
| 1902600000 | HDC 32B SBU 1M32G | D.34 |
| 1902610000 | HDC 32B SBU 1PG36G | D.34 |
| 1902640000 | HDC 32B SBU 2PG36G | D.34 |
| 1902650000 | HDC 32B SDLU 1M32G | D.35 |
| 1902670000 | HDC 32B SLU 1M32G | D.35 |
| 1902730000 | HDC 32B KBU 1M40G | D.34 |
| 1902740000 | HDC 32B KBU 1PG29G | D.34 |
| 1902750000 | HDC 32B KBU 1PG36G | D.34 |
| 1902970000 | HDC 40D SBU 1M25G | D.22 |
| 1902980000 | HDC 24B TOBU 1M40G | D.27 |
| 1902990000 | HDC 40D SBU 1M32G | D.22 |
| 1903070000 | HDC 40D SDLU 1M25G | D.23 |
| 1903080000 | HDC 40D SDLU 1M32G | D.23 |
| 1903110000 | HDC 40D SLU 1M32G | D.23 |

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| 1903210000 | HDC 24D SBU 1M25G | D.15 |
| 1903220000 | HDC 24D SBU 1M32G | D.15 |
| 1903370000 | HDC 24D SDBO 1M25G | D.17 |
| 1903410000 | HDC 24D SDLU 1M25G | D.16 |
| 1903510000 | HDC 24D SDLU 1M32G | D.16 |
| 1903560000 | HDC 24D SLU 1M32G | D.16 |
| 1903610000 | HDC 24D TSZO 1M25G | D.18 |
| 1903870000 | HDC 32A SBU 1M25G | D.25 |
| 1903900000 | HDC 32A SDBO 1M25G | D.26 |
| 1903910000 | HDC 32A SDBO 1M32G | D.26 |
| 1904150000 | HDC 48B SDLU 1M32G | D.37 |
| 1904190000 | HDC 48B SLU 1M32G | D.37 |
| 1904340000 | HDC 64D SBU 1M25G | D.28 |
| 1904350000 | HDC 64D SBU 1M32G | D.28 |
| 1904400000 | HDC 64D SDBO 1M32G | D.31 |
| 1904430000 | HDC 64D SDLU 1M25G | D.30 |
| 1904440000 | HDC 64D SDLU 1M32G | D.30 |
| 1904480000 | HDC 64D SLU 1M25G | D.30 |
| 1904490000 | HDC 64D SLU 1M32G | D.30 |
| 1904690000 | HDC 64D TSZO 1M40G | D.32 |
| 1904800000 | HDC 40D TSBU 1M40G | D.21 |
| 1909860000 | VG M16-1/K68 | J.40 |
| 1909870000 | VG M25-1/K68 | J.40 |
| 1909880000 | VG M32-1/K68 | J.40 |
| 1909890000 | VG M40-1/K68 | J.40 |
| 1909910000 | VG M16-1/MS68 | J.42 |
| 1909920000 | VG M25-1/MS68 | J.42 |
| 1909930000 | VG M32-1/MS68 | J.42 |
| 1909940000 | VG M40-1/MS68 | J.42 |
| 1909950000 | VG M50-1/MS68 | J.42 |

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|---|---|---|
| 1912190000 | HDC SHIELD CLAMP 4.5 | J.18 |
| 1912200000 | HDC SHIELD CLAMP 5.0 | J.18 |
| 1912210000 | HDC SHIELD CLAMP 6.0 | J.18 |
| 1912220000 | HDC SHIELD CLAMP 7.0 | J.18 |
| 1912230000 | HDC SHIELD CLAMP 8.0 | J.18 |
| 1912240000 | HDC SHIELD CLAMP 9.0 | J.18 |
| 1912250000 | HDC SHIELD CLAMP 10.0 | J.18 |
| 1912440000 | HDC HQ 5 MC | B.96 |
| 1912460000 | HDC HQ 5 FC | B.96 |
| 1913320000 | GWDR M12-NP | J.53 |
| 1919970000 | HDC HQ 8 MC | B.102 |
| 1919980000 | HDC HQ 8 FC | B.102 |

## 1920000000

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|---|---|---|
| 1921720000 | VG H M20 MS | J.44 |
| 1921740000 | VG H M25 MS | J.44 |
| 1921760000 | VG H M32 MS | J.44 |
| 1921770000 | VG H M40 MS | J.44 |

## 1930000000

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|---|---|---|
| 1934710000 | HDC 16A SDLU 1M20G | D.19 |
| 1934720000 | HDC 16A SLU 1M20G | D.19 |

## 1960000000

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|---|---|---|
| 1963690000 | HDC 04A DODL 1LB | D.6 |
| 1966810000 | IE-KO-HAT | J.26 |
| 1967210000 | HDC HVE 10+2 MT CtH | B.86 |
| 1967220000 | HDC HVE 3+2 FT CtH | B.82 |
| 1967230000 | HDC HVE 3+2 MT CtH | B.82 |
| 1967240000 | HDC HVE 6+2 FT CtH | B.84 |
| 1967250000 | HDC HVE 6+2 MT CtH | B.84 |
| 1967260000 | HDC HVE 10+2 FT CtH | B.86 |
| 1967660000 | HDC 10A TSLU 1M20G | D.10 |
| 1967670000 | HDC 40D KBU 1PG29G | D.22 |
| 1967910000 | HDC 24B ABO | D.31 |
| 1968340000 | HDC 24B KLU 1M25G | D.30 |
| 1968350000 | HDC 24D SZO 2PG21G | D.18 |
| 1968360000 | HDC 24D TSZO 1PG21G | D.18 |
| 1968370000 | HDC 64D SZO 2PG29G | D.32 |

## 1980000000

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|---|---|---|
| 1983470000 | HDC 64D TOLU 1M40G | D.29 |
| 1983500000 | HDC 48B SDLU 2M40G | D.37 |
| 1983510000 | HDC 48B SDLU 2M50G | D.37 |
| 1987450000 | HDC FLDG 04A IP68 | J.23 |
| 1987460000 | HDC DG 04A IP68 | J.23 |
| 1987470000 | HDC FLDG 04A AW IP68 | J.23 |
| 1987480000 | HDC FLDG 06B IP68 | J.23 |
| 1987490000 | HDC DG 06B IP68 | J.23 |
| 1987500000 | HDC FLDG 10B IP68 | J.23 |
| 1987510000 | HDC DG 10B IP68 | J.23 |
| 1987520000 | HDC FLDG 16B IP68 | J.23 |
| 1987530000 | HDC DG 16B IP68 | J.23 |
| 1987540000 | HDC FLDG 24B IP68 | J.23 |
| 1987550000 | HDC FLDG 24B XXL IP68 | J.23 |
| 1987920000 | HDC HP 550 SSM SET | H.13 |
| 1987950000 | HDC HP 550 SSF SET | H.13 |
| 1989290000 | HDC MBUS 2 MCLIP | C.23 |
| 1989300000 | HDC MBUS 2 PCLIP | C.23 |

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|---|---|---|
| 1993810000 | HDC HQ 12 MC | B.100 |
| 1993820000 | HDC HQ 12 FC | B.100 |
| 1994540000 | ES EPG 45 HEX 150 | H.8 |
| 1994540000 | ES EPG 45 HEX 150 | H.16 |
| 1994540000 | ES EPG 45 HEX 150 | J.28 |

## 2000000000

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|---|---|---|
| 2003820050 | HDC XX6A01 M0XXXXX-0050 | C.35 |
| 2003820100 | HDC XX6A01 M0XXXXX-0100 | C.35 |
| 2003820150 | HDC XX6A01 M0XXXXX-0150 | C.35 |
| 2003820300 | HDC XX6A01 M0XXXXX-0300 | C.35 |
| 2003820500 | HDC XX6A01 M0XXXXX-0500 | C.35 |
| 2003830050 | HDC XX6A02 M0XXXXX-0050 | C.33 |
| 2003830100 | HDC XX6A02 M0XXXXX-0100 | C.33 |
| 2003830150 | HDC XX6A02 M0XXXXX-0150 | C.33 |
| 2003830300 | HDC XX6A02 M0XXXXX-0300 | C.33 |
| 2003830500 | HDC XX6A02 M0XXXXX-0500 | C.33 |
| 2003850050 | HDC XX6A01 FOXXXXX-0050 | C.34 |
| 2003850100 | HDC XX6A01 FOXXXXX-0100 | C.34 |
| 2003850150 | HDC XX6A01 FOXXXXX-0150 | C.34 |
| 2003850300 | HDC XX6A01 FOXXXXX-0300 | C.34 |
| 2003850500 | HDC XX6A01 FOXXXXX-0500 | C.34 |
| 2003860050 | HDC XX6A02 FOXXXXX-0050 | C.33 |
| 2003860100 | HDC XX6A02 FOXXXXX-0100 | C.33 |
| 2003860150 | HDC XX6A02 FOXXXXX-0150 | C.33 |
| 2003860300 | HDC XX6A02 FOXXXXX-0300 | C.33 |
| 2003860500 | HDC XX6A02 FOXXXXX-0500 | C.33 |
| 2003890050 | HDC XX5E01 M0XXXXX-0050 | C.29 |
| 2003890100 | HDC XX5E01 M0XXXXX-0100 | C.29 |
| 2003890150 | HDC XX5E01 M0XXXXX-0150 | C.29 |
| 2003890300 | HDC XX5E01 M0XXXXX-0300 | C.29 |
| 2003890500 | HDC XX5E01 M0XXXXX-0500 | C.29 |
| 2003900050 | HDC XX5E02 M0XXXXX-0050 | C.31 |
| 2003900100 | HDC XX5E02 M0XXXXX-0100 | C.31 |
| 2003900150 | HDC XX5E02 M0XXXXX-0150 | C.31 |
| 2003900300 | HDC XX5E02 M0XXXXX-0300 | C.31 |
| 2003900500 | HDC XX5E02 M0XXXXX-0500 | C.31 |
| 2003920050 | HDC XX5E01 FOXXXXX-0050 | C.29 |
| 2003920100 | HDC XX5E01 FOXXXXX-0100 | C.29 |
| 2003920150 | HDC XX5E01 FOXXXXX-0150 | C.29 |
| 2003920300 | HDC XX5E01 FOXXXXX-0300 | C.29 |
| 2003920500 | HDC XX5E01 FOXXXXX-0500 | C.29 |
| 2003930050 | HDC XX5E02 FOXXXXX-0050 | C.30 |
| 2003930100 | HDC XX5E02 FOXXXXX-0100 | C.30 |
| 2003930150 | HDC XX5E02 FOXXXXX-0150 | C.30 |
| 2003930300 | HDC XX5E02 FOXXXXX-0300 | C.30 |
| 2003930500 | HDC XX5E02 FOXXXXX-0500 | C.30 |
| 2008210000 | HDC HP 250 SSM BO SET | H.7 |
| 2008220000 | HDC HP 250 SSF BO SET | H.7 |

## 2060000000

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|---|---|---|
| 2066710000 | VP M12 EX SI 7J | J.59 |
| 2066720000 | VP M16 EX SI 7J | J.59 |
| 2066730000 | VP M20 EX SI 7J | J.59 |
| 2066740000 | VP M25 EX SI 7J | J.59 |
| 2066750000 | VP M32 EX SI 7J | J.59 |
| 2066760000 | VP M40 EX SI 7J | J.59 |
| 2066770000 | VP M50 EX SI 7J | J.59 |
| 2066940000 | VP M63 EX SI 7J | J.59 |

## 2080000000

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|---|---|---|
| 2088980000 | HDC 07A ALU BLK | D.5 |
| 2089000000 | HDC 07A TOLU 1M20G BLK | D.4 |

## 2420000000

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|---|---|---|
| 2427900000 | HDC MBUS8 X6A MC | C.26 |
| 2427910000 | HDC MBUS8 X6A FC | C.26 |
| 2427920000 | HDC MBUS4 D5E MC | C.25 |
| 2427930000 | HDC MBUS4 D5E FC | C.25 |

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|---|---|---|
| 2430170000 | HDC IP68 04A AWS 1M25 | B.101 |
| 2430170000 | HDC IP68 04A AWS 1M25 | F.4 |
| 2433160000 | WB SI SL 0.4X2.5 | J.31 |
| 2433170000 | WB SI SL 0.5X3.0 | J.31 |
| 2433180000 | WB SI SL 0.6X3.5 | J.31 |
| 2433190000 | WB SI SL 0,8X4,0 | J.31 |
| 2433200000 | WB SI SL 1,0X5,5 | J.31 |
| 2433210000 | WB IK SL PH1 | J.31 |
| 2433220000 | WB IK SL PH2 | J.31 |
| 2433230000 | WB IK SL PZ1 | J.31 |
| 2433240000 | WB IK SL PZ2 | J.31 |
| 2435070000 | VG M12 EMV-4 MS 3-6.5 | J.45 |
| 2435140000 | VG M16 EMV-4 MS 5-10 | J.45 |
| 2435150000 | VG M20 EMV-4 MS 6-12 | J.45 |
| 2435160000 | VG M20 EMV-4 MS 8-14 | J.45 |
| 2435170000 | VG M25 EMV-4 MS 10-18 | J.45 |
| 2435180000 | VG M32 EMV-4 MS 16-25 | J.45 |
| 2435190000 | VG M40 EMV-4 MS 22-32 | J.45 |
| 2435200000 | VG M50 EMV-4 MS 30-38 | J.45 |
| 2435210000 | VG M63 EMV-4 MS 34-44 | J.45 |

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| 2450440050 | HDC XX6A01 MFSM12X-0050 | C.35 |
| 2450440100 | HDC XX6A01 MFSM12X-0100 | C.35 |
| 2450440150 | HDC XX6A01 MFSM12X-0150 | C.35 |
| 2450440300 | HDC XX6A01 MFSM12X-0300 | C.35 |
| 2450440500 | HDC XX6A01 MFSM12X-0500 | C.35 |
| 2450450050 | HDC XX5E01 MFSM12D-0050 | C.29 |
| 2450450100 | HDC XX5E01 MFSM12D-0100 | C.29 |
| 2450450150 | HDC XX5E01 MFSM12D-0150 | C.29 |
| 2450450300 | HDC XX5E01 MFSM12D-0300 | C.29 |
| 2450450500 | HDC XX5E01 MFSM12D-0500 | C.29 |
| 2450490050 | HDC XX5E01 MMSRJ45-0050 | C.29 |
| 2450490100 | HDC XX5E01 MMSRJ45-0100 | C.29 |
| 2450490150 | HDC XX5E01 MMSRJ45-0150 | C.29 |
| 2450490300 | HDC XX5E01 MMSRJ45-0300 | C.29 |
| 2450490500 | HDC XX5E01 MMSRJ45-0500 | C.29 |
| 2451080050 | HDC XX5E01 FMSRJ45-0050 | C.28 |
| 2451080100 | HDC XX5E01 FMSRJ45-0100 | C.28 |
| 2451080150 | HDC XX5E01 FMSRJ45-0150 | C.28 |
| 2451080300 | HDC XX5E01 FMSRJ45-0300 | C.28 |
| 2451080500 | HDC XX5E01 FMSRJ45-0500 | C.28 |
| 2451090050 | HDC XX6A01 MMSRJ45-0050 | C.35 |
| 2451090100 | HDC XX6A01 MMSRJ45-0100 | C.35 |
| 2451090150 | HDC XX6A01 MMSRJ45-0150 | C.35 |
| 2451090300 | HDC XX6A01 MMSRJ45-0300 | C.35 |
| 2451090500 | HDC XX6A01 MMSRJ45-0500 | C.35 |
| 2451100050 | HDC XX6A01 FMSRJ45-0050 | C.34 |
| 2451100100 | HDC XX6A01 FMSRJ45-0100 | C.34 |
| 2451100150 | HDC XX6A01 FMSRJ45-0150 | C.34 |
| 2451100300 | HDC XX6A01 FMSRJ45-0300 | C.34 |
| 2451100500 | HDC XX6A01 FMSRJ45-0500 | C.34 |
| 2451110050 | HDC XX5E01 MMSM12D-0050 | C.29 |
| 2451110100 | HDC XX5E01 MMSM12D-0100 | C.29 |
| 2451110150 | HDC XX5E01 MMSM12D-0150 | C.29 |
| 2451110300 | HDC XX5E01 MMSM12D-0300 | C.29 |
| 2451110500 | HDC XX5E01 MMSM12D-0500 | C.29 |
| 2451120050 | HDC XX5E01 FMSM12D-0050 | C.28 |
| 2451120100 | HDC XX5E01 FMSM12D-0100 | C.28 |
| 2451120150 | HDC XX5E01 FMSM12D-0150 | C.28 |
| 2451120300 | HDC XX5E01 FMSM12D-0300 | C.28 |
| 2451120500 | HDC XX5E01 FMSM12D-0500 | C.28 |
| 2451130050 | HDC XX6A01 MMSM12X-0050 | C.35 |
| 2451130100 | HDC XX6A01 MMSM12X-0100 | C.35 |
| 2451130150 | HDC XX6A01 MMSM12X-0150 | C.35 |
| 2451130300 | HDC XX6A01 MMSM12X-0300 | C.35 |
| 2451130500 | HDC XX6A01 MMSM12X-0500 | C.35 |
| 2451140050 | HDC XX6A01 FMSM12X-0050 | C.34 |
| 2451140100 | HDC XX6A01 FMSM12X-0100 | C.34 |
| 2451140150 | HDC XX6A01 FMSM12X-0150 | C.34 |
| 2451140300 | HDC XX6A01 FMSM12X-0300 | C.34 |
| 2451140500 | HDC XX6A01 FMSM12X-0500 | C.34 |
| 2451460000 | HDC IP68 HP 24B 1M50 | H.7 |
| 2451460000 | HDC IP68 HP 24B 1M50 | H.13 |
| 2453540050 | HDC XX6A01 MFSXXXX-0050 | C.35 |
| 2453540100 | HDC XX6A01 MFSXXXX-0100 | C.35 |
| 2453540150 | HDC XX6A01 MFSXXXX-0150 | C.35 |
| 2453540300 | HDC XX6A01 MFSXXXX-0300 | C.35 |
| 2453540500 | HDC XX6A01 MFSXXXX-0500 | C.35 |
| 2453550050 | HDC XX5E01 MFSXXXX-0050 | C.29 |
| 2453550100 | HDC XX5E01 MFSXXXX-0100 | C.29 |
| 2453550150 | HDC XX5E01 MFSXXXX-0150 | C.29 |
| 2453550300 | HDC XX5E01 MFSXXXX-0300 | C.29 |
| 2453550500 | HDC XX5E01 MFSXXXX-0500 | C.29 |
| 2457660000 | VGM40-MS68 EMC 20-32SET | H.7 |
| 2457660000 | VGM40-MS68 EMC 20-32SET | H.13 |

## 2470000000

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|---|---|---|
| 2473940000 | HDC IP68 HP 24B 1M63 | H.7 |
| 2473940000 | HDC IP68 HP 24B 1M63 | H.13 |

## 2480000000

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|---|---|---|
| 2488560000 | HDC 06B ALU N | B.21 |
| 2488560000 | HDC 06B ALU N | B.35 |
| 2488560000 | HDC 06B ALU N | B.69 |
| 2488560000 | HDC 06B ALU N | B.113 |
| 2488560000 | HDC 06B ALU N | D.13 |
| 2488580000 | HDC 10B ABU N | B.23 |
| 2488580000 | HDC 10B ABU N | B.37 |
| 2488580000 | HDC 10B ABU N | B.71 |
| 2488580000 | HDC 10B ABU N | B.83 |
| 2488580000 | HDC 10B ABU N | B.115 |
| 2488580000 | HDC 10B ABU N | D.15 |
| 2488590000 | HDC 16B ABU N | B.25 |
| 2488590000 | HDC 16B ABU N | B.39 |
| 2488590000 | HDC 16B ABU N | B.41 |
| 2488590000 | HDC 16B ABU N | B.57 |
| 2488590000 | HDC 16B ABU N | B.73 |
| 2488590000 | HDC 16B ABU N | B.85 |
| 2488590000 | HDC 16B ABU N | B.91 |
| 2488590000 | HDC 16B ABU N | B.117 |
| 2488590000 | HDC 16B ABU N | B.119 |
| 2488590000 | HDC 16B ABU N | B.121 |
| 2488590000 | HDC 16B ABU N | B.123 |
| 2488590000 | HDC 16B ABU N | B.125 |
| 2488590000 | HDC 16B ABU N | D.22 |
| 2488600000 | HDC 24B ABU N | B.27 |

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|---|---|---|
| 2488600000 | HDC 24B ABU N | B.43 |
| 2488600000 | HDC 24B ABU N | B.61 |
| 2488600000 | HDC 24B ABU N | B.75 |
| 2488600000 | HDC 24B ABU N | B.87 |
| 2488600000 | HDC 24B ABU N | B.127 |
| 2488600000 | HDC 24B ABU N | B.129 |
| 2488600000 | HDC 24B ABU N | B.131 |
| 2488600000 | HDC 24B ABU N | D.28 |
| 2489300000 | WK I SLIM BIT | J.31 |

## 2490000000

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|---|---|---|
| 2494550000 | HDC C MHX SM10.0AG | C.12 |
| 2494560000 | HDC C MHX BM10.0AG | C.12 |
| 2498320000 | VGM40L-MS68EMC 20-32SET | H.7 |
| 2498320000 | VGM40L-MS68EMC 20-32SET | H.13 |

## 2500000000

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|---|---|---|
| 2503540050 | HDC XX5E01 FFSM12D-0050 | C.28 |
| 2503540100 | HDC XX5E01 FFSM12D-0100 | C.28 |
| 2503540150 | HDC XX5E01 FFSM12D-0150 | C.28 |
| 2503540300 | HDC XX5E01 FFSM12D-0300 | C.28 |
| 2503540500 | HDC XX5E01 FFSM12D-0500 | C.28 |
| 2503550050 | HDC XX6A01 FFSM12X-0050 | C.34 |
| 2503550100 | HDC XX6A01 FFSM12X-0100 | C.34 |
| 2503550150 | HDC XX6A01 FFSM12X-0150 | C.34 |
| 2503550300 | HDC XX6A01 FFSM12X-0300 | C.34 |
| 2503550500 | HDC XX6A01 FFSM12X-0500 | C.34 |
| 2503690050 | HDC XX6A02 MFSM12X-0050 | C.33 |
| 2503690100 | HDC XX6A02 MFSM12X-0100 | C.33 |
| 2503690150 | HDC XX6A02 MFSM12X-0150 | C.33 |
| 2503690300 | HDC XX6A02 MFSM12X-0300 | C.33 |
| 2503690500 | HDC XX6A02 MFSM12X-0500 | C.33 |
| 2503700050 | HDC XX5E02 MFSM12D-0050 | C.31 |
| 2503700100 | HDC XX5E02 MFSM12D-0100 | C.31 |
| 2503700150 | HDC XX5E02 MFSM12D-0150 | C.31 |
| 2503700300 | HDC XX5E02 MFSM12D-0300 | C.31 |
| 2503700500 | HDC XX5E02 MFSM12D-0500 | C.31 |
| 2503710050 | HDC XX5E02 MMSRJ45-0050 | C.31 |
| 2503710100 | HDC XX5E02 MMSRJ45-0100 | C.31 |
| 2503710150 | HDC XX5E02 MMSRJ45-0150 | C.31 |
| 2503710300 | HDC XX5E02 MMSRJ45-0300 | C.31 |
| 2503710500 | HDC XX5E02 MMSRJ45-0500 | C.31 |
| 2503720050 | HDC XX5E02 FMSRJ45-0050 | C.30 |
| 2503720100 | HDC XX5E02 FMSRJ45-0100 | C.30 |
| 2503720150 | HDC XX5E02 FMSRJ45-0150 | C.30 |
| 2503720300 | HDC XX5E02 FMSRJ45-0300 | C.30 |
| 2503720500 | HDC XX5E02 FMSRJ45-0500 | C.30 |
| 2503730050 | HDC XX6A02 MMSRJ45-0050 | C.33 |
| 2503730100 | HDC XX6A02 MMSRJ45-0100 | C.33 |
| 2503730150 | HDC XX6A02 MMSRJ45-0150 | C.33 |
| 2503730300 | HDC XX6A02 MMSRJ45-0300 | C.33 |
| 2503730500 | HDC XX6A02 MMSRJ45-0500 | C.33 |
| 2503740050 | HDC XX6A02 FMSRJ45-0050 | C.32 |
| 2503740100 | HDC XX6A02 FMSRJ45-0100 | C.32 |
| 2503740150 | HDC XX6A02 FMSRJ45-0150 | C.32 |
| 2503740300 | HDC XX6A02 FMSRJ45-0300 | C.32 |
| 2503740500 | HDC XX6A02 FMSRJ45-0500 | C.32 |
| 2503750050 | HDC XX5E02 MMSM12D-0050 | C.31 |
| 2503750100 | HDC XX5E02 MMSM12D-0100 | C.31 |
| 2503750150 | HDC XX5E02 MMSM12D-0150 | C.31 |
| 2503750300 | HDC XX5E02 MMSM12D-0300 | C.31 |
| 2503750500 | HDC XX5E02 MMSM12D-0500 | C.31 |
| 2503760050 | HDC XX5E02 FMSM12D-0050 | C.30 |
| 2503760100 | HDC XX5E02 FMSM12D-0100 | C.30 |
| 2503760150 | HDC XX5E02 FMSM12D-0150 | C.30 |
| 2503760300 | HDC XX5E02 FMSM12D-0300 | C.30 |
| 2503760500 | HDC XX5E02 FMSM12D-0500 | C.30 |
| 2503770050 | HDC XX6A02 MMSM12X-0050 | C.33 |
| 2503770100 | HDC XX6A02 MMSM12X-0100 | C.33 |
| 2503770150 | HDC XX6A02 MMSM12X-0150 | C.33 |
| 2503770300 | HDC XX6A02 MMSM12X-0300 | C.33 |
| 2503770500 | HDC XX6A02 MMSM12X-0500 | C.33 |
| 2503780050 | HDC XX6A02 FMSM12X-0050 | C.32 |
| 2503780100 | HDC XX6A02 FMSM12X-0100 | C.32 |
| 2503780150 | HDC XX6A02 FMSM12X-0150 | C.32 |
| 2503780300 | HDC XX6A02 FMSM12X-0300 | C.32 |
| 2503780500 | HDC XX6A02 FMSM12X-0500 | C.32 |
| 2503790050 | HDC XX5E02 MFSXXXX-0050 | C.31 |
| 2503790100 | HDC XX5E02 MFSXXXX-0100 | C.31 |
| 2503790150 | HDC XX5E02 MFSXXXX-0150 | C.31 |
| 2503790300 | HDC XX5E02 MFSXXXX-0300 | C.31 |
| 2503790500 | HDC XX5E02 MFSXXXX-0500 | C.31 |
| 2503800050 | HDC XX6A02 MFSXXXX-0050 | C.33 |
| 2503800100 | HDC XX6A02 MFSXXXX-0100 | C.33 |
| 2503800150 | HDC XX6A02 MFSXXXX-0150 | C.33 |
| 2503800300 | HDC XX6A02 MFSXXXX-0300 | C.33 |
| 2503800500 | HDC XX6A02 MFSXXXX-0500 | C.33 |
| 2503810050 | HDC XX5E02 FFSM12D-0050 | C.30 |
| 2503810100 | HDC XX5E02 FFSM12D-0100 | C.30 |
| 2503810150 | HDC XX5E02 FFSM12D-0150 | C.30 |
| 2503810300 | HDC XX5E02 FFSM12D-0300 | C.30 |
| 2503810500 | HDC XX5E02 FFSM12D-0500 | C.30 |
| 2503820050 | HDC XX6A02 FFSM12X-0050 | C.32 |
| 2503820100 | HDC XX6A02 FFSM12X-0100 | C.32 |
| 2503820150 | HDC XX6A02 FFSM12X-0150 | C.32 |
| 2503820300 | HDC XX6A02 FFSM12X-0300 | C.32 |
| 2503820500 | HDC XX6A02 FFSM12X-0500 | C.32 |

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|---|---|---|
| 2506000000 | WB I T10 | J.31 |
| 2506010000 | WB I T15 | J.31 |
| 2506020000 | WB I T20 | J.31 |
| 2506030000 | WB I VK 1 | J.31 |
| 2506040000 | WB I VK 2 | J.31 |
| 2506050000 | WB I SK 2.5 | J.31 |
| 2506060000 | WB I SK 3 | J.31 |
| 2506070000 | WB I SK 4 | J.31 |
| 2506080000 | WB I SK 5 | J.31 |

## 2510000000

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|---|---|---|
| 2514820000 | HDC MHP200 F 25 | C.8 |
| 2514830000 | HDC MHP200 F 35 | C.8 |
| 2514840000 | HDC MHP200 F 50 | C.8 |
| 2514850000 | HDC MHP200 F 70 | C.8 |
| 2514860000 | HDC MHP200 M 25 | C.8 |
| 2514870000 | HDC MHP200 M 35 | C.8 |
| 2514880000 | HDC MHP200 M 50 | C.8 |
| 2514890000 | HDC MHP200 M 70 | C.8 |

## 2520000000

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|---|---|---|
| 2527810000 | HDC 24B ABU EMC | E.7 |

## 2540000000

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|---|---|---|
| 2542230000 | HDC 06B ALU EMC | E.4 |
| 2542310000 | HDC 10B ABU EMC | E.5 |
| 2542320000 | HDC 16B ABU EMC | E.6 |
| 2543960000 | HDC 16D TSLU 1M32G EMC | E.4 |
| 2543970000 | HDC 16D TOLU 1M32G EMC | E.4 |
| 2544010000 | HDC 24D TSBU 1M32G EMC | E.5 |
| 2544020000 | HDC 24D TOBU 1M32G EMC | E.5 |
| 2544030000 | HDC 40D TSBU 1M40G EMC | E.6 |
| 2544040000 | HDC 40D TOBU 1M40G EMC | E.6 |
| 2544050000 | HDC 64D TSBU 1M40G EMC | E.7 |
| 2544060000 | HDC 64D TOBU 1M40G EMC | E.7 |
| 2545510000 | HDC 40D KBU 2M32G N | B.25 |
| 2545510000 | HDC 40D KBU 2M32G N | B.39 |
| 2545510000 | HDC 40D KBU 2M32G N | B.41 |
| 2545510000 | HDC 40D KBU 2M32G N | B.57 |
| 2545510000 | HDC 40D KBU 2M32G N | B.73 |
| 2545510000 | HDC 40D KBU 2M32G N | B.85 |
| 2545510000 | HDC 40D KBU 2M32G N | B.91 |
| 2545510000 | HDC 40D KBU 2M32G N | B.117 |
| 2545510000 | HDC 40D KBU 2M32G N | B.119 |
| 2545510000 | HDC 40D KBU 2M32G N | B.121 |
| 2545510000 | HDC 40D KBU 2M32G N | B.123 |
| 2545510000 | HDC 40D KBU 2M32G N | B.125 |
| 2545510000 | HDC 40D KBU 2M32G N | D.22 |
| 2548900000 | HDC MHP 200 MC | C.8 |
| 2549260000 | HDC MHP 200 FC | C.8 |

## 2550000000

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|---|---|---|
| 2559320000 | HDC 06B ADLU N | B.21 |
| 2559320000 | HDC 06B ADLU N | B.35 |
| 2559320000 | HDC 06B ADLU N | B.69 |
| 2559320000 | HDC 06B ADLU N | B.113 |
| 2559320000 | HDC 06B ADLU N | D.13 |
| 2559730000 | HDC 06B DMDL 1LB N | B.21 |
| 2559730000 | HDC 06B DMDL 1LB N | B.35 |
| 2559730000 | HDC 06B DMDL 1LB N | B.69 |
| 2559730000 | HDC 06B DMDL 1LB N | B.113 |
| 2559730000 | HDC 06B DMDL 1LB N | D.12 |
| 2559740000 | HDC 10B DMDQ 2QB N | B.23 |
| 2559740000 | HDC 10B DMDQ 2QB N | B.37 |
| 2559740000 | HDC 10B DMDQ 2QB N | B.71 |
| 2559740000 | HDC 10B DMDQ 2QB N | B.83 |
| 2559740000 | HDC 10B DMDQ 2QB N | B.115 |
| 2559740000 | HDC 10B DMDQ 2QB N | D.14 |
| 2559760000 | HDC 24B DMDQ 2QB N | B.27 |
| 2559760000 | HDC 24B DMDQ 2QB N | B.43 |
| 2559760000 | HDC 24B DMDQ 2QB N | B.61 |
| 2559760000 | HDC 24B DMDQ 2QB N | B.75 |
| 2559760000 | HDC 24B DMDQ 2QB N | B.87 |
| 2559760000 | HDC 24B DMDQ 2QB N | B.127 |
| 2559760000 | HDC 24B DMDQ 2QB N | B.129 |
| 2559760000 | HDC 24B DMDQ 2QB N | B.131 |
| 2559760000 | HDC 24B DMDQ 2QB N | D.27 |
| 2559860000 | HDC 10B KBU 1M20G N | B.23 |
| 2559860000 | HDC 10B KBU 1M20G N | B.37 |
| 2559860000 | HDC 10B KBU 1M20G N | B.71 |
| 2559860000 | HDC 10B KBU 1M20G N | B.83 |
| 2559860000 | HDC 10B KBU 1M20G N | B.115 |
| 2559860000 | HDC 10B KBU 1M20G N | D.15 |
| 2559870000 | HDC 24B KBU 1M25G N | B.27 |
| 2559870000 | HDC 24B KBU 1M25G N | B.43 |
| 2559870000 | HDC 24B KBU 1M25G N | B.61 |
| 2559870000 | HDC 24B KBU 1M25G N | B.75 |
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| 2559870000 | HDC 24B KBU 1M25G N | B.127 |
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| 2559870000 | HDC 24B KBU 1M25G N | B.131 |
| 2559870000 | HDC 24B KBU 1M25G N | D.28 |
| 2559880000 | HDC 24B KBU 2M32G N | B.27 |
| 2559880000 | HDC 24B KBU 2M32G N | B.43 |
| 2559880000 | HDC 24B KBU 2M32G N | B.61 |

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|---|---|---|
| 2559880000 | HDC 24B KBU 2M32G N | B.75 |
| 2559880000 | HDC 24B KBU 2M32G N | B.87 |
| 2559880000 | HDC 24B KBU 2M32G N | B.127 |
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| 2559880000 | HDC 24B KBU 2M32G N | D.28 |
| 2559890000 | HDC 40D KBU 1M25G N | B.25 |
| 2559890000 | HDC 40D KBU 1M25G N | B.39 |
| 2559890000 | HDC 40D KBU 1M25G N | B.41 |
| 2559890000 | HDC 40D KBU 1M25G N | B.57 |
| 2559890000 | HDC 40D KBU 1M25G N | B.73 |
| 2559890000 | HDC 40D KBU 1M25G N | B.85 |
| 2559890000 | HDC 40D KBU 1M25G N | B.91 |
| 2559890000 | HDC 40D KBU 1M25G N | B.117 |
| 2559890000 | HDC 40D KBU 1M25G N | B.119 |
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| 2559890000 | HDC 40D KBU 1M25G N | B.123 |
| 2559890000 | HDC 40D KBU 1M25G N | B.125 |
| 2559890000 | HDC 40D KBU 1M25G N | D.22 |
| 2559900000 | HDC 40D KBU 1M32G N | B.25 |
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| 2559910000 | HDC 64D KBU 1M32G N | B.27 |
| 2559910000 | HDC 64D KBU 1M32G N | B.43 |
| 2559910000 | HDC 64D KBU 1M32G N | B.61 |
| 2559910000 | HDC 64D KBU 1M32G N | B.75 |
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| 2559910000 | HDC 64D KBU 1M32G N | B.127 |
| 2559910000 | HDC 64D KBU 1M32G N | B.129 |
| 2559910000 | HDC 64D KBU 1M32G N | B.131 |
| 2559910000 | HDC 64D KBU 1M32G N | D.28 |

## 2560000000

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|---|---|---|
| 2560710000 | HDC 06B SLU 1M25G N | D.13 |
| 2560720000 | HDC 06B SDLU 1M20G N | B.21 |
| 2560720000 | HDC 06B SDLU 1M20G N | B.35 |
| 2560720000 | HDC 06B SDLU 1M20G N | B.69 |
| 2560720000 | HDC 06B SDLU 1M20G N | D.13 |
| 2560730000 | HDC 10B SBU 1PG16G N | D.15 |
| 2560740000 | HDC 16B SBU 1M25G N | B.25 |
| 2560740000 | HDC 16B SBU 1M25G N | B.39 |
| 2560740000 | HDC 16B SBU 1M25G N | B.41 |
| 2560740000 | HDC 16B SBU 1M25G N | B.57 |
| 2560740000 | HDC 16B SBU 1M25G N | B.73 |
| 2560740000 | HDC 16B SBU 1M25G N | B.85 |
| 2560740000 | HDC 16B SBU 1M25G N | B.91 |
| 2560740000 | HDC 16B SBU 1M25G N | B.117 |
| 2560740000 | HDC 16B SBU 1M25G N | B.119 |
| 2560740000 | HDC 16B SBU 1M25G N | B.121 |
| 2560740000 | HDC 16B SBU 1M25G N | B.123 |
| 2560740000 | HDC 16B SBU 1M25G N | B.125 |
| 2560740000 | HDC 16B SBU 1M25G N | D.22 |
| 2560750000 | HDC 24B SBU 1PG21G N | D.28 |
| 2560760000 | HDC 24D SBU 2M25G N | D.15 |
| 2560810000 | HDC 06B SDLU 1PG16G N | D.13 |
| 2560820000 | HDC 06B SDLU 2M20G N | D.13 |
| 2560830000 | HDC 06B SDLU 2M25G N | B.21 |
| 2560830000 | HDC 06B SDLU 2M25G N | B.35 |
| 2560830000 | HDC 06B SDLU 2M25G N | B.69 |
| 2560830000 | HDC 06B SDLU 2M25G N | D.13 |
| 2560840000 | HDC 06B SLU 1PG16G N | D.13 |
| 2560850000 | HDC 06B SLU 2M20G N | D.13 |
| 2560860000 | HDC 06B SLU 2M25G N | B.21 |
| 2560860000 | HDC 06B SLU 2M25G N | B.35 |
| 2560860000 | HDC 06B SLU 2M25G N | B.69 |
| 2560860000 | HDC 06B SLU 2M25G N | D.13 |
| 2560870000 | HDC 10B SBU 2PG16G N | D.15 |
| 2560880000 | HDC 10B SBU 1M20G N | B.23 |
| 2560880000 | HDC 10B SBU 1M20G N | B.37 |
| 2560880000 | HDC 10B SBU 1M20G N | B.71 |
| 2560880000 | HDC 10B SBU 1M20G N | B.83 |
| 2560880000 | HDC 10B SBU 1M20G N | B.115 |
| 2560880000 | HDC 10B SBU 1M20G N | D.15 |
| 2560890000 | HDC 10B SBU 2M20G N | B.23 |
| 2560890000 | HDC 10B SBU 2M20G N | B.37 |
| 2560890000 | HDC 10B SBU 2M20G N | B.71 |
| 2560890000 | HDC 10B SBU 2M20G N | B.83 |
| 2560890000 | HDC 10B SBU 2M20G N | B.115 |
| 2560890000 | HDC 10B SBU 2M20G N | D.15 |
| 2560900000 | HDC 10B SBU 1M25G N | B.23 |
| 2560900000 | HDC 10B SBU 1M25G N | B.37 |
| 2560900000 | HDC 10B SBU 1M25G N | B.71 |
| 2560900000 | HDC 10B SBU 1M25G N | B.83 |
| 2560900000 | HDC 10B SBU 1M25G N | B.115 |
| 2560900000 | HDC 10B SBU 1M25G N | D.15 |
| 2560910000 | HDC 10B SBU 2M25G N | B.23 |
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| 2560910000 | HDC 10B SBU 2M25G N | B.71 |

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| 2560930000 | HDC 16B SBU 2M25G N | B.25 |
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| 2560930000 | HDC 16B SBU 2M25G N | B.41 |
| 2560930000 | HDC 16B SBU 2M25G N | B.57 |
| 2560930000 | HDC 16B SBU 2M25G N | B.73 |
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| 2560930000 | HDC 16B SBU 2M25G N | B.117 |
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| 2560930000 | HDC 16B SBU 2M25G N | B.123 |
| 2560930000 | HDC 16B SBU 2M25G N | B.125 |
| 2560930000 | HDC 16B SBU 2M25G N | D.22 |
| 2560940000 | HDC 16B SBU 1PG21G N | D.22 |
| 2560950000 | HDC 16B SBU 2PG21G N | D.22 |
| 2560960000 | HDC 24B SBU 1M25G N | D.28 |
| 2560970000 | HDC 24B SBU 2M25G N | B.27 |
| 2560970000 | HDC 24B SBU 2M25G N | B.43 |
| 2560970000 | HDC 24B SBU 2M25G N | B.61 |
| 2560970000 | HDC 24B SBU 2M25G N | B.75 |
| 2560970000 | HDC 24B SBU 2M25G N | B.87 |
| 2560970000 | HDC 24B SBU 2M25G N | B.127 |
| 2560970000 | HDC 24B SBU 2M25G N | B.129 |
| 2560970000 | HDC 24B SBU 2M25G N | B.131 |
| 2560970000 | HDC 24B SBU 2M25G N | D.28 |
| 2560990000 | HDC 24D SBU 1M32G N | D.15 |
| 2561000000 | HDC 24D SBU 2M32G N | D.15 |
| 2561020000 | HDC 40D SBU 2M25G N | D.22 |
| 2561030000 | HDC 40D SBU 1M32G N | B.25 |
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| 2561030000 | HDC 40D SBU 1M32G N | B.41 |
| 2561030000 | HDC 40D SBU 1M32G N | B.57 |
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| 2561030000 | HDC 40D SBU 1M32G N | B.85 |
| 2561030000 | HDC 40D SBU 1M32G N | B.91 |
| 2561030000 | HDC 40D SBU 1M32G N | B.117 |
| 2561030000 | HDC 40D SBU 1M32G N | B.119 |
| 2561030000 | HDC 40D SBU 1M32G N | B.121 |
| 2561030000 | HDC 40D SBU 1M32G N | B.123 |
| 2561030000 | HDC 40D SBU 1M32G N | B.125 |
| 2561030000 | HDC 40D SBU 1M32G N | D.22 |
| 2561040000 | HDC 40D SBU 2M32G N | D.22 |
| 2561050000 | HDC 64D SBU 1M32G N | B.27 |
| 2561050000 | HDC 64D SBU 1M32G N | B.43 |
| 2561050000 | HDC 64D SBU 1M32G N | B.61 |
| 2561050000 | HDC 64D SBU 1M32G N | B.75 |
| 2561050000 | HDC 64D SBU 1M32G N | B.87 |
| 2561050000 | HDC 64D SBU 1M32G N | B.127 |
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| 2561050000 | HDC 64D SBU 1M32G N | B.131 |
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| 2561060000 | HDC 64D SBU 2M25G N | B.27 |
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| 2561060000 | HDC 64D SBU 2M25G N | B.127 |
| 2561060000 | HDC 64D SBU 2M25G N | B.129 |
| 2561060000 | HDC 64D SBU 2M25G N | B.131 |
| 2561060000 | HDC 64D SBU 2M25G N | D.28 |
| 2565880000 | HDC MBUS4 M AWG26-24 | C.25 |
| 2565890000 | HDC MBUS4 F AWG26-24 | C.25 |
| 2565900000 | HDC MBUS4 M AWG22-20 | C.25 |
| 2565910000 | HDC MBUS4 F AWG22-20 | C.25 |
| 2565920000 | HDC MBUS4 M AWG18 | C.25 |
| 2565930000 | HDC MBUS4 F AWG18 | C.25 |
| 2565940000 | HDC MBUS8 M AWG26-24 | C.26 |
| 2565950000 | HDC MBUS8 F AWG26-24 | C.26 |
| 2565960000 | HDC MBUS8 M AWG22 | C.26 |
| 2565970000 | HDC MBUS8 F AWG22 | C.26 |
| 2565980000 | HDC MBUS8 M AWG20 | C.26 |
| 2565990000 | HDC MBUS8 F AWG20 | C.26 |
| 2566000000 | HDC MBUS CF 11.0 | C.27 |
| 2566010000 | HDC MBUS CF 10.3 | C.27 |
| 2566020000 | HDC MBUS CF 9.7 | C.27 |
| 2566030000 | HDC MBUS CF 9.1 | C.27 |
| 2566040000 | HDC MBUS CF 8.5 | C.27 |
| 2566050000 | HDC MBUS CF 7.9 | C.27 |
| 2566060000 | HDC MBUS CF 7.3 | C.27 |
| 2566070000 | HDC MBUS CFS 7.0 | C.27 |
| 2566080000 | HDC MBUS CFS 5.0 | C.27 |
| 2568530000 | HDC HP550 ABGH CR 1P | H.14 |
| 2568560000 | HDC HP550 ABGR CR 1P PG36 | H.14 |
| 2568600000 | HDC HP550 STGH CR 1P | H.14 |
| 2568630000 | HDC HP550 GHDE CR 1P PG36 | H.15 |

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| 2592030000 | HDC MRJ45 GC F | C.36 |
| 2592210000 | HDC MRJ45 ABP MI | C.36 |
| 2592220000 | HDC MRJ45 A MI | C.36 |
| 2592230000 | HDC MRJ45 B MI | C.36 |
| 2592240000 | HDC MRJ45 P MI | C.36 |
| 2592250000 | HDC MRJ45 8PLUG MC | C.36 |
| 2592260000 | HDC MRJ45 PCADP MC | C.36 |
| 2592260000 | HDC MRJ45 PCADP MC | C.37 |

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| 2592650000 | HDC MBUS CT X/D 0.6/1.0 | C.27 |
| 2592680000 | HDC MBUS CL X/D 0.6/1.0 | C.27 |
| 2592690000 | HDC MBUS CT A 9.2-10.3 | C.27 |
| 2592700000 | HDC MBUS CI A 9.2-10.3 | C.27 |
| 2592710000 | HDC MBUS CT B 8.0-9.1 | C.27 |
| 2592720000 | HDC MBUS CI B 8.0-9.1 | C.27 |
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| 2599770000 | HDC HP550 GHDE CR 1P M40 | H.15 |
| 2599790000 | HDC HP550 GHDE CR 1P M32 | H.15 |
| 2599810000 | HDC HP550 GHDE CR 1P M25 | H.15 |
| 2599840000 | HDC HP550 GHDE CR 1P M20 | H.15 |
| 2599910000 | HDC HP550 ABGR CR 1P M40 | H.14 |
| 2599920000 | HDC HP550 ABGR CR 1P M32 | H.14 |
| 2599930000 | HDC HP550 ABGR CR 1P M25 | H.14 |
| 2599940000 | HDC HP550 ABGR CR 1P M20 | H.14 |

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| 2617240000 | HDC MHP200 REMOVAL TOOL | C.8 |
| 2617240000 | HDC MHP200 REMOVAL TOOL | J.35 |

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| 2634700050 | HDC XX6A02 FFSXXXX-0050 | C.32 |
| 2634700100 | HDC XX6A02 FFSXXXX-0100 | C.32 |
| 2634700150 | HDC XX6A02 FFSXXXX-0150 | C.32 |
| 2634700300 | HDC XX6A02 FFSXXXX-0300 | C.32 |
| 2634700500 | HDC XX6A02 FFSXXXX-0500 | C.32 |
| 2635980000 | HDC MHE 4 MP | C.18 |
| 2635990000 | HDC MHE 4 FP | C.18 |
| 2636060000 | HDC MHE 4X FP | C.19 |
| 2636070000 | HDC MHE 4X MP | C.19 |
| 2636080000 | HDC MHE 4X2 FP | C.20 |
| 2636090000 | HDC MHE 4X2 MP | C.20 |
| 2636180000 | HDC MHE 5 MP | C.17 |
| 2636190000 | HDC MHE 5 FP | C.17 |
| 2637080000 | HDC 06B SLU 1M20G N | B.21 |
| 2637080000 | HDC 06B SLU 1M20G N | B.35 |
| 2637080000 | HDC 06B SLU 1M20G N | B.69 |
| 2637080000 | HDC 06B SLU 1M20G N | D.13 |
| 2637320000 | HDC MPN 2 | C.38 |
| 2637340000 | HDC MPN 3 | C.39 |
| 2637350000 | HDC MPN 6.0 M | C.38 |
| 2637390000 | HDC MPN 6.0 F | C.38 |
| 2637400000 | HDC MPN 6.0 SOF | C.38 |
| 2637410000 | HDC MPN 4.0 M | C.39 |
| 2637420000 | HDC MPN 4.0 F | C.39 |
| 2637430000 | HDC MPN 4.0 SOF | C.39 |
| 2637440000 | HDC MPN 3.0 M | C.39 |
| 2637450000 | HDC MPN 3.0 F | C.39 |
| 2637460000 | HDC MPN 3.0 SOF | C.39 |
| 2637470000 | HDC MPN 1.6 M | C.39 |
| 2637480000 | HDC MPN 1.6 F | C.39 |
| 2637490000 | HDC MPN 1.6 SOF | C.39 |

## 2650000000

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| 2652760050 | HDC XX5E01 FFSXXXX-0050 | C.28 |
| 2652760100 | HDC XX5E01 FFSXXXX-0100 | C.28 |
| 2652760150 | HDC XX5E01 FFSXXXX-0150 | C.28 |
| 2652760300 | HDC XX5E01 FFSXXXX-0300 | C.28 |
| 2652760500 | HDC XX5E01 FFSXXXX-0500 | C.28 |
| 2659960050 | HDC XX5E02 MMSXXXX-0050 | C.31 |
| 2659960100 | HDC XX5E02 MMSXXXX-0100 | C.31 |
| 2659960150 | HDC XX5E02 MMSXXXX-0150 | C.31 |
| 2659960300 | HDC XX5E02 MMSXXXX-0300 | C.31 |
| 2659960500 | HDC XX5E02 MMSXXXX-0500 | C.31 |
| 2659970050 | HDC XX6A01 MMSXXXX-0050 | C.35 |
| 2659970100 | HDC XX6A01 MMSXXXX-0100 | C.35 |
| 2659970150 | HDC XX6A01 MMSXXXX-0150 | C.35 |
| 2659970300 | HDC XX6A01 MMSXXXX-0300 | C.35 |
| 2659970500 | HDC XX6A01 MMSXXXX-0500 | C.35 |

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| 2661950020 | HDC RJ4501 MMSCAT6-0020 | C.37 |
| 2661950030 | HDC RJ4501 MMSCAT6-0030 | C.37 |
| 2661950040 | HDC RJ4501 MMSCAT6-0040 | C.37 |
| 2661950050 | HDC RJ4501 MMSCAT6-0050 | C.37 |
| 2661950060 | HDC RJ4501 MMSCAT6-0060 | C.37 |
| 2661950070 | HDC RJ4501 MMSCAT6-0070 | C.37 |
| 2661950080 | HDC RJ4501 MMSCAT6-0080 | C.37 |
| 2661950090 | HDC RJ4501 MMSCAT6-0090 | C.37 |
| 2661950100 | HDC RJ4501 MMSCAT6-0100 | C.37 |
| 2661950150 | HDC RJ4501 MMSCAT6-0150 | C.37 |
| 2661950200 | HDC RJ4501 MMSCAT6-0200 | C.37 |
| 2661950250 | HDC RJ4501 MMSCAT6-0250 | C.37 |
| 2661950300 | HDC RJ4501 MMSCAT6-0300 | C.37 |
| 2661950400 | HDC RJ4501 MMSCAT6-0400 | C.37 |
| 2661950500 | HDC RJ4501 MMSCAT6-0500 | C.37 |
| 2661950600 | HDC RJ4501 MMSCAT6-0600 | C.37 |
| 2661950700 | HDC RJ4501 MMSCAT6-0700 | C.37 |
| 2661950750 | HDC RJ4501 MMSCAT6-0750 | C.37 |
| 2661950800 | HDC RJ4501 MMSCAT6-0800 | C.37 |
| 2661950900 | HDC RJ4501 MMSCAT6-0900 | C.37 |
| 2661951000 | HDC RJ4501 MMSCAT6-1000 | C.37 |
| 2661951500 | HDC RJ4501 MMSCAT6-1500 | C.37 |
| 2661952000 | HDC RJ4501 MMSCAT6-2000 | C.37 |

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| 2666920000 | HDC HE 06 FQT | B.20 |
| 2666930000 | HDC HE 10 FQT | B.22 |
| 2666940000 | HDC HE 10 MQT | B.22 |
| 2666950000 | HDC HE 16 FQT | B.24 |
| 2666970000 | HDC HE 16 MQT | B.24 |
| 2666990000 | HDC HE 24 FQT | B.26 |
| 2667010000 | HDC HE 24 MQT | B.26 |
| 2668180000 | HDC MHP 70 FC | C.10 |
| 2668190000 | HDC MHP 70 MC | C.10 |
| 2668200000 | HDC MHP70 F 10 | C.10 |
| 2668210000 | HDC MHP70 F 6 | C.10 |
| 2668220000 | HDC MHP70 F 16 | C.10 |
| 2668260000 | HDC MHP70 F 25 | C.10 |
| 2668280000 | HDC MHP70 M 6 | C.10 |
| 2668350000 | HDC MHP70 M 10 | C.10 |
| 2668360000 | HDC MHP70 M 16 | C.10 |
| 2668370000 | HDC MHP70 M 25 | C.10 |

## 2690000000

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| 2691190000 | HDC MHP70 M 6 P | C.10 |
| 2691240000 | HDC MHP70 M 10 P | C.10 |
| 2691250000 | HDC MHP70 M 16 P | C.10 |
| 2691260000 | HDC MHP70 M 25 P | C.10 |

## 2700000000

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| 2709710000 | HDC MXCC2 4X | C.19 |
| 2709710000 | HDC MXCC2 4X | C.20 |
| 2709720000 | HDC MXCC3 4X | C.19 |
| 2709720000 | HDC MXCC3 4X | C.20 |
| 2709730000 | HDC MXCC4 4X | C.19 |
| 2709730000 | HDC MXCC4 4X | C.20 |
| 2709740000 | HDC MXCC5 4X | C.19 |
| 2709740000 | HDC MXCC5 4X | C.20 |
| 2709750000 | HDC MXCC6 4X | C.19 |
| 2709750000 | HDC MXCC6 4X | C.20 |
| 2709770000 | HDC MXCC7 4X | C.19 |
| 2709770000 | HDC MXCC7 4X | C.20 |
| 2709780000 | HDC MXCC8 4X | C.19 |
| 2709780000 | HDC MXCC8 4X | C.20 |
| 2709790000 | HDC MXCC9 4X | C.19 |
| 2709790000 | HDC MXCC9 4X | C.20 |
| 2709800000 | HDC MXCC10 4X | C.19 |
| 2709800000 | HDC MXCC10 4X | C.20 |
| 2709810000 | HDC MXCC11 4X | C.19 |
| 2709810000 | HDC MXCC11 4X | C.20 |
| 2709820000 | HDC MXCC12 4X | C.19 |
| 2709820000 | HDC MXCC12 4X | C.20 |

## 2710000000

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| 2710590000 | HDC MMARK 4 | C.19 |
| 2710590000 | HDC MMARK 4 | C.20 |
| 2715990000 | VG 16 HQ K68 4-6.5 | J.49 |
| 2716700000 | HDC 06B TOS 1M25 WMP | G.4 |
| 2716720000 | HDC 10B TOS 1M32 WMP | G.5 |
| 2716730000 | HDC 16B TOS 1M40 WMP | G.6 |
| 2716740000 | HDC 24B TOS 1M40 WMP | G.7 |
| 2716750000 | HDC 06B TSS 1M25 WMP | G.4 |
| 2716760000 | HDC 10B TSS 1M32 WMP | G.5 |
| 2716770000 | HDC 16B TSS 1M40 WMP | G.6 |
| 2716780000 | HDC 24B TSS 1M40 WMP | G.7 |
| 2716790000 | HDC AF WM | G.4 |
| 2716790000 | HDC AF WM | G.5 |
| 2716790000 | HDC AF WM | G.6 |
| 2716790000 | HDC AF WM | G.7 |
| 2716800000 | HDC AF SET WM | G.4 |
| 2716800000 | HDC AF SET WM | G.5 |
| 2716800000 | HDC AF SET WM | G.6 |
| 2716800000 | HDC AF SET WM | G.7 |
| 2716810000 | HDC 06B AF WM COVER | G.4 |
| 2716820000 | HDC 10B AF WM COVER | G.5 |
| 2716830000 | HDC 16B AF WM COVER | G.6 |
| 2716840000 | HDC 24B AF WM COVER | G.7 |

## 8000000000

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| 8000015137 | HDC FBS TOOL 13-50 | H.7 |
| 8000015137 | HDC FBS TOOL 13-50 | H.13 |

## 9000000000

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| 9003750000 | M-D-STRIPAX LWL | J.29 |
| 9008320000 | SDS 0.5X3.0X80 | J.32 |
| 9008330000 | SDS 0.6X3.5X100 | J.32 |
| 9008340000 | SDS 0.8X4.0X100 | J.32 |
| 9008350000 | SDS 1.0X5.5X150 | J.32 |
| 9008470000 | SDK PH0 | J.32 |
| 9008480000 | SDK PH1 | J.32 |
| 9008490000 | SDK PH2 | J.32 |
| 9008500000 | SDK PH3 | J.32 |
| 9008530000 | SDK PZ1 | J.32 |
| 9008540000 | SDK PZ2 | J.32 |
| 9008850000 | SK WSD-S 1,5-10,0 | J.34 |
| 9008860000 | SKS 2,0-8,0 | J.34 |
| 9008870000 | SKS 2,0-8,0 MR | J.34 |
| 9008880000 | TH-S 9-40 | J.34 |

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| 9009020000 | SDS 0.8X4.5X125 | J.32 |
| 9009030000 | SDS 0.4X2.5X75 | J.32 |
| 9009160000 | SD TH20 | J.32 |
| 9009170000 | SD TH15 | J.32 |
| 9009180000 | SD TH10 | J.32 |
| 9009740000 | SD SET S2.5-5.5/PH1/2 | J.33 |

## 9010000000

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| 9010110000 | SDS 0.6X3.5X200 | J.32 |
| 9010950000 | HTX-HDC/POF | J.9 |
| 9010950000 | HTX-HDC/POF | J.29 |
| 9013690000 | CTX CM 1.6/2.5 ZERT | J.27 |
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| 9018490000 | CTX CM 1.6/2.5 | B.12 |
| 9018490000 | CTX CM 1.6/2.5 | B.14 |
| 9018490000 | CTX CM 1.6/2.5 | B.16 |
| 9018490000 | CTX CM 1.6/2.5 | B.20 |
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| 9018490000 | CTX CM 1.6/2.5 | B.42 |
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| 9018490000 | CTX CM 1.6/2.5 | B.50 |
| 9018490000 | CTX CM 1.6/2.5 | B.52 |
| 9018490000 | CTX CM 1.6/2.5 | B.54 |
| 9018490000 | CTX CM 1.6/2.5 | B.56 |
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| 9018490000 | CTX CM 1.6/2.5 | B.60 |
| 9018490000 | CTX CM 1.6/2.5 | B.62 |
| 9018490000 | CTX CM 1.6/2.5 | B.64 |
| 9018490000 | CTX CM 1.6/2.5 | B.68 |
| 9018490000 | CTX CM 1.6/2.5 | B.70 |
| 9018490000 | CTX CM 1.6/2.5 | B.72 |
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| 9018490000 | CTX CM 1.6/2.5 | B.120 |
| 9018490000 | CTX CM 1.6/2.5 | B.124 |
| 9018490000 | CTX CM 1.6/2.5 | C.13 |
| 9018490000 | CTX CM 1.6/2.5 | C.14 |
| 9018490000 | CTX CM 1.6/2.5 | C.15 |
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| 9018490000 | CTX CM 1.6/2.5 | J.4 |
| 9018490000 | CTX CM 1.6/2.5 | J.5 |
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## 9020000000

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| 9020360000 | AM LWL/POF | J.9 |
| 9020360000 | AM LWL/POF | J.29 |
| 9020390000 | PS LWL/POF | J.9 |
| 9020390000 | PS LWL/POF | J.29 |
| 9020400000 | PB LWL/POF | J.9 |
| 9020400000 | PB LWL/POF | J.29 |

## 9030000000

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| 9037160000 | SDS 0.4X2.0X60 | J.32 |

## 9200000000

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| 9202510000 | WK 1/4 C6,3 E6,3 | J.30 |
| 9204820000 | KOK-52X36 | J.26 |
| 9204830000 | KOK-65X36 | J.26 |
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| 9204870000 | KOK-112X36 | J.26 |
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