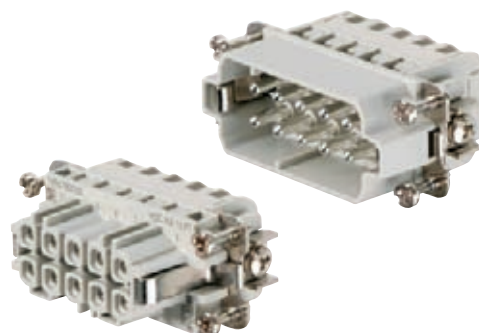


RockStar® inserts

RockStar® inserts	
HA series – the slim connectors	B.2
250 V	
22 A	
3 – 48 poles	
HE series – the universal connectors	B.16
500 V	
24 A	
6 – 48 poles	
HEE series – high contact density	B.30
500 V	
16 A	
10 – 46 poles	
HD series – the flexible connectors	B.42
250 V	
10 A	
7 – 128 poles	
HDD series – the compact connectors	B.66
250 V	
10 A	
24 – 216 poles	
HVE series – exciting voltage	B.80
830 V	
23 A	
3 + 2; 6 + 2; 10 + 2 poles	
HSB series – the heavy-duty connectors	B.88
400 V	
35 A	
6 – 12 poles	
MixMate series – the high-capacity connectors	B.94
1000 V / 690 V	
100 A	
4; 4/0; 6/6 and 6/12 poles	
HQ series – the powerful little connectors	B.106
400 V / 690 V	
16 A, 10/40 A	
4/2, 5, 7, 8, 17 poles	
CabinetMate DSTV-HE series – connector at front, terminal at rear	B.118
500 V	
16 A	
6 – 24 poles	
CabinetMate DSTV-HD series – connector at front, terminal at rear	B.128
250 V	
10 A	
16 – 64 poles	

HA series – the slim connectors

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



Technical data

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

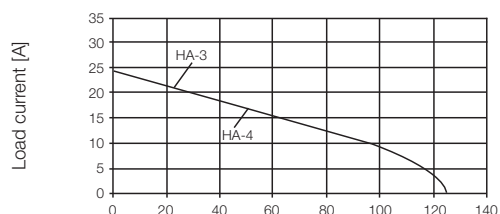
Note:

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

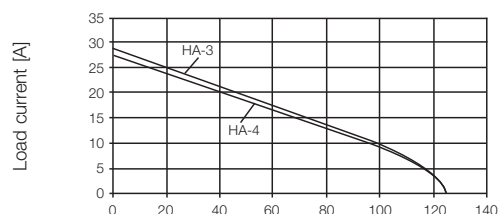
* Crimping with flexible conductors.

** For screw and crimp connections.

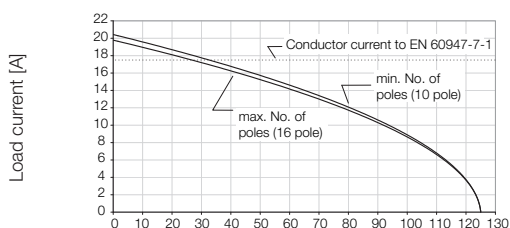
Derating curves



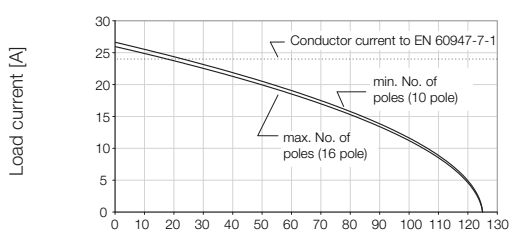
3 + 4-pole, 1.5 mm² Ambient temperature [°C]



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



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



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

Overview

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

HA series - the slim connectors

250 V, 22 A, Size 1

3 + ⊕

Inserts

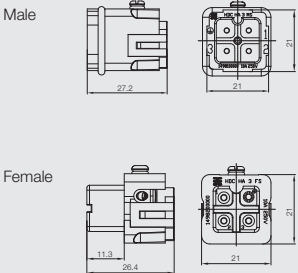
Screw connection



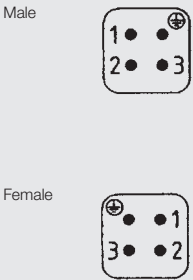
Insert	Designation	Order No.
Male	HDC HA 3 MS	1498100000
Female	HDC HA 3 FS	1498200000



Dimensions



Arrangement of contacts



Selection of Housings RockStar® IP65 Size 1

For additional housings, refer to Chapter D.



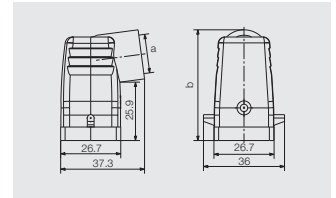
Hood

Material: diecast aluminium

Plug housing, cable entry sideways



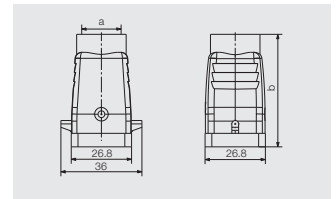
a	Version	Cover	b (mm)	Designation	Order No.
M20	w. threading	without cover	49.2	HDC 04A TWLU 1M20G	1788810000



Plug housing, cable entry at top



a	Version	Cover	b (mm)	Designation	Order No.
M20	w. threading	without cover	50	HDC 04A TOLU 1M20G	1788820000

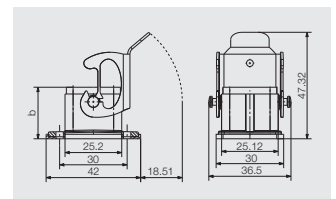


Base

Bulkhead housing



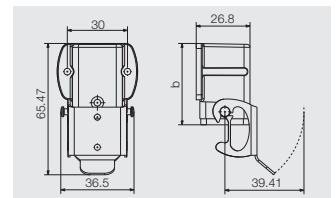
Version	Cover	b (mm)	Designation	Order No.
	without cover	23	HDC 04A ALU	1497600000



Base housing



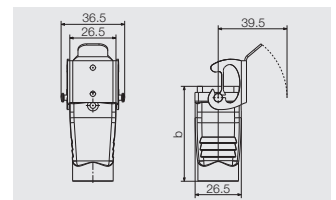
a	Version	Cover	b (mm)	Designation	Order No.
M20	w. threading	without cover	41.5	HDC 04A SLU 1M20G	1788830000



Coupling housing



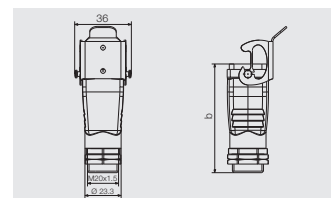
a	Version	Cover	b (mm)	Designation	Order No.
M20	w. threading	without cover	53.5	HDC 04A KOLU 1M20G	1788840000



Screw mounting housing



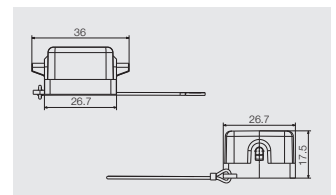
a	Version	Cover	b (mm)	Designation	Order No.
M20	w. threading	without cover	54	HDC 04A ELU 1M20G	1900320000
PG 13	w. threading	without cover	54	HDC 04A ELU 1PG13S	1900330000
PG 13	w. threading	without cover	54	HDC 04A ELU 1PG13S bl	1900350000



Cover



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



HA series - the slim connectors

250 V, 22 A, Size 1

4 + ⊕

Inserts

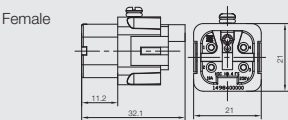
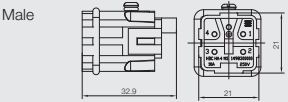
Screw connection



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



Dimensions



Arrangement of contacts



Selection of Housings RockStar® IP65 Size 1

For additional housings, refer to Chapter D.



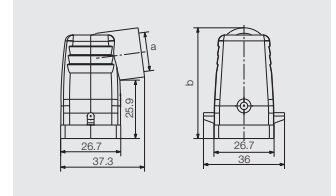
Hood

Material: diecast aluminium

Plug housing, cable entry sideways



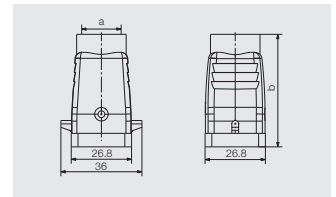
a	Version	Cover	b (mm)	Designation	Order No.
M20	w. threading	without cover	49.2	HDC 04A TWLU 1M20G	1788810000



Plug housing, cable entry at top



a	Version	Cover	b (mm)	Designation	Order No.
M20	w. threading	without cover	50	HDC 04A TOLU 1M20G	1788820000

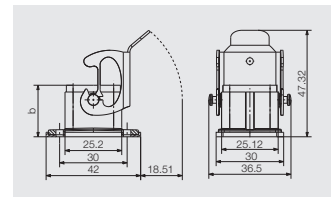


Base

Bulkhead housing



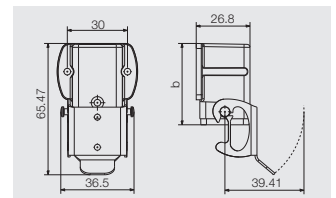
Version	Cover	b (mm)	Designation	Order No.
	without cover	23	HDC 04A ALU	1497600000



Base housing



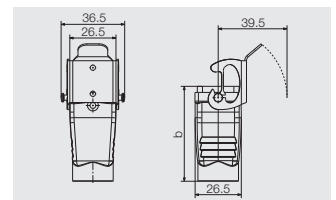
a	Version	Cover	b (mm)	Designation	Order No.
M20	w. threading	without cover	41.5	HDC 04A SLU 1M20G	1788830000



Coupling housing



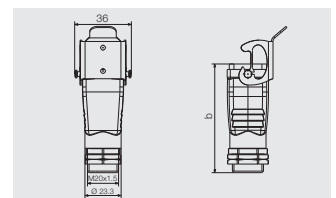
a	Version	Cover	b (mm)	Designation	Order No.
M20	w. threading	without cover	53.5	HDC 04A KOLU 1M20G	1788840000



Screw mounting housing



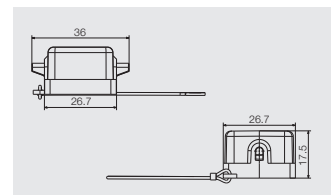
a	Version	Cover	b (mm)	Designation	Order No.
M20	w. threading	without cover	54	HDC 04A ELU 1M20G	1900320000
PG 13	w. threading	without cover	54	HDC 04A ELU 1PG13S	1900330000
PG 13	w. threading	without cover	54	HDC 04A ELU 1PG13S bl	1900350000



Cover



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



HA series - the slim connectors

250 V, 22 A, Size 2

10 + ⊕

Inserts

Tension clamp connection



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

Screw connection



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

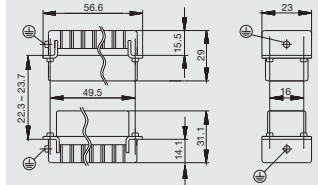
Crimp connection



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

Dimensions

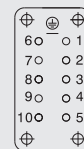
Male



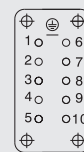
Female

Arrangement of contacts

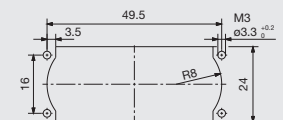
Male



Female



Mounting cut-out



Accessories

Crimp contacts

Surface finish silver



Surface finish gold



Qty.	Male	Order No.	Female	Order No.
100	HDC-C-HE-SM0.5AG	1200500000	HDC-C-HE-BM0.5AG	1201100000
100	HDC-C-HE-SM0.75-1AG	1200600000	HDC-C-HE-BM0.75-1AG	1201200000
100	HDC-C-HE-SM1.5AG	1200700000	HDC-C-HE-BM1.5AG	1201300000
100	HDC-C-HE-SM2.5AG	1200800000	HDC-C-HE-BM2.5AG	1201400000
100	HDC-C-HE-SM4.0AG	1200900000	HDC-C-HE-BM4.0AG	1201500000
100	HDC-C-HE-SM0.5AU	1651420000	HDC-C-HE-BM0.5AU	1651470000
100	HDC-C-HE-SM0.75-1AU	1651430000	HDC-C-HE-BM0.75-1AU	1651480000
100	HDC-C-HE-SM1.5AU	1651440000	HDC-C-HE-BM1.5AU	1651490000
100	HDC-C-HE-SM2.5AU	1651450000	HDC-C-HE-BM2.5AU	1651500000
100	HDC-C-HE-SM4.0AU	1651460000	HDC-C-HE-BM4.0AU	1651510000

Tools



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

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

Selection of Housings RockStar® IP65 / IP66 Size 2

For additional housings, refer to Chapter D.

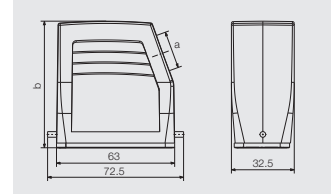


Hood

Plug housing, cable entry sideways



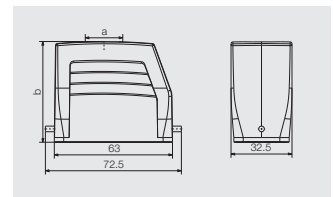
a	Version	Cover	b (mm)	Designation	Order No.
M20	w. threading	without cover 68		HDC 15A TSLU 1M20G	1788860000
M25	w. threading	without cover 68		HDC 15A TSLU 1M25G	1788850000



Plug housing, cable entry at top



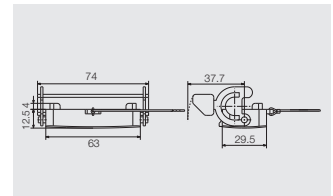
a	Version	Cover	b (mm)	Designation	Order No.
M20	w. threading	without cover 54		HDC 10A TOLU 1M20G	1788620000
M25	w. threading	without cover 54		HDC 10A TOLU 1M25G	1788610000



Cover



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

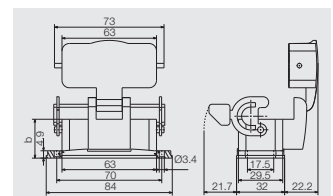


Base

Bulkhead housing



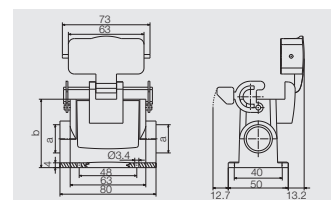
Version	Cover	b (mm)	Designation	Order No.
	with cover 37.5		HDC 10A ADLU	1664060000
	without cover 25		HDC 10A ALU	1664040000



Base housing



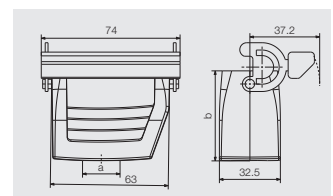
a	Version	Cover	b (mm)	Designation	Order No.
M20	w. threading	with cover 69.5		HDC 10A SDLU 2M20G	1788660000
M25	w. threading	with cover 69.5		HDC 10A SDLU 2M25G	1788650000
M20	w. threading	without cover 57		HDC 10A SLU 2M20G	1788640000
M25	w. threading	without cover 57		HDC 10A SLU 2M25G	1788630000



Coupling housing



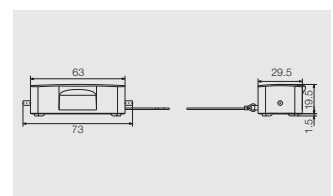
a	Version	Cover	b (mm)	Designation	Order No.
M25	w. threading	without cover 48		HDC 10A KLU 1M25G	1788670000



Cover



Version	Designation	Order No.
For bases	HDC 10A DMDL 2BO	1665880000



HA series - the slim connectors

250 V, 22 A, Size 5

16 + ⚡

Inserts

Tension clamp connection



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

Screw connection



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

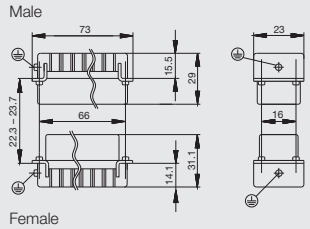
Crimp connection



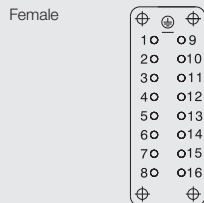
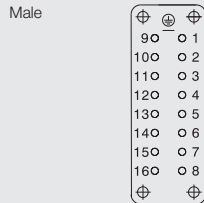
Insert	Designation	Order No.
Male	HDC HA 16 MC	1873890000
Female	HDC HA 16 FC	1873880000



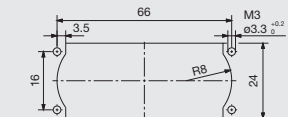
Dimensions



Arrangement of contacts



Mounting cut-out



Accessories

Crimp contacts

Surface finish silver



Surface finish gold

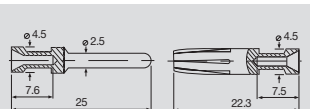


Qty.	Male	Order No.	Female	Order No.
100	HDC-C-HE-SM0.5AG	1200500000	HDC-C-HE-BM0.5AG	1201100000
100	HDC-C-HE-SM0.75-1AG	1200600000	HDC-C-HE-BM0.75-1AG	1201200000
100	HDC-C-HE-SM1.5AG	1200700000	HDC-C-HE-BM1.5AG	1201300000
100	HDC-C-HE-SM2.5AG	1200800000	HDC-C-HE-BM2.5AG	1201400000
100	HDC-C-HE-SM4.0AG	1200900000	HDC-C-HE-BM4.0AG	1201500000
100	HDC-C-HE-SM0.5AU	1651420000	HDC-C-HE-BM0.5AU	1651470000
100	HDC-C-HE-SM0.75-1AU	1651430000	HDC-C-HE-BM0.75-1AU	1651480000
100	HDC-C-HE-SM1.5AU	1651440000	HDC-C-HE-BM1.5AU	1651490000
100	HDC-C-HE-SM2.5AU	1651450000	HDC-C-HE-BM2.5AU	1651500000
100	HDC-C-HE-SM4.0AU	1651460000	HDC-C-HE-BM4.0AU	1651510000

Tools



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



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

Selection of Housings RockStar® IP65 / IP66 Size 5

For additional housings, refer to Chapter D.

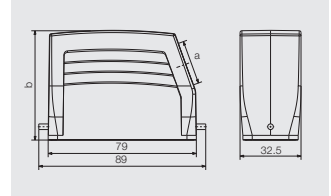


Hood

Plug housing, cable entry sideways



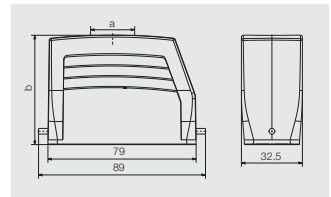
a	Version	Cover	b (mm)	Designation	Order No.
M25	w. threading	without cover	58	HDC 16A TSLU 1M25G	1788740000
M20	w. threading	without cover	72	HDC 25A TSLU 1M20G	1788680000
M25	w. threading	without cover	72	HDC 25A TSLU 1M25G	1788690000



Plug housing, cable entry at top



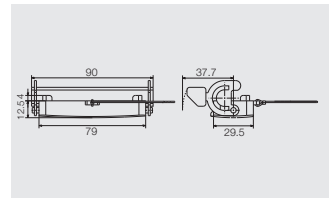
a	Version	Cover	b (mm)	Designation	Order No.
M25	w. threading	without cover	58	HDC 16A TOLU 1M25G	1788750000
M20	w. threading	without cover	72	HDC 25A TOLU 1M20G	1788710000
M25	w. threading	without cover	72	HDC 25A TOLU 1M25G	1788700000



Cover



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

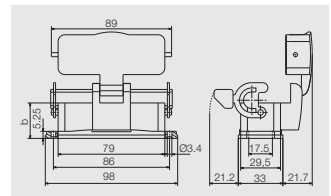


Base

Bulkhead housing



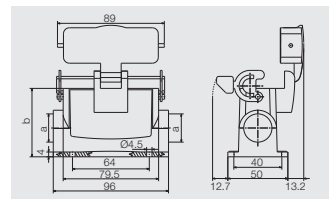
Version	Cover	b (mm)	Designation	Order No.
	with cover	44.5	HDC 16A ADLU	1664940000
	without cover	25	HDC 16A ALU	1664920000



Base housing



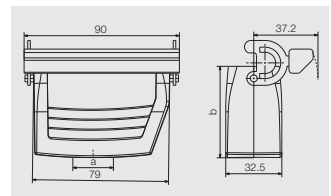
a	Version	Cover	b (mm)	Designation	Order No.
M20	w. threading	with cover	76.5	HDC 16A SDLU 2M20G	1788790000
M25	w. threading	with cover	76.5	HDC 16A SDLU 2M25G	1788780000
M20	w. threading	without cover	57	HDC 16A SLU 2M20G	1788770000
M25	w. threading	without cover	57	HDC 16A SLU 2M25G	1788760000



Coupling housing



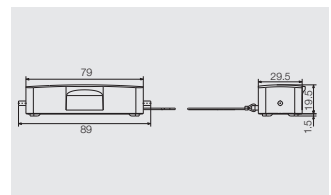
a	Version	Cover	b (mm)	Designation	Order No.
M25	w. threading	without cover	53	HDC 16A KLU 1M25G	1788800000



Cover



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



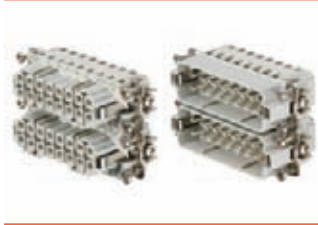
HA series - the slim connectors

250 V, 16 A, Size 7

32 + ⚡

Inserts

Tension clamp connection



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

Screw connection



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

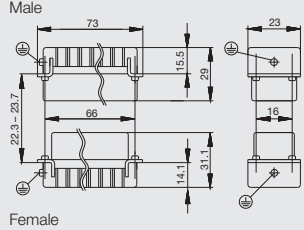
Crimp connection



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



Dimensions

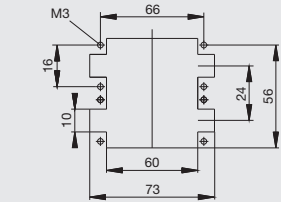


Arrangement of contacts

Male	
25 0 17	9 0 1
26 0 18	10 0 2
27 0 19	11 0 3
28 0 20	12 0 4
29 0 21	13 0 5
30 0 22	14 0 6
31 0 23	15 0 7
32 0 24	16 0 8

Female	
1 0 9	17 0 25
2 0 10	18 0 26
3 0 11	19 0 27
4 0 12	20 0 28
5 0 13	21 0 29
6 0 14	22 0 30
7 0 15	23 0 31
8 0 16	24 0 32

Mounting cut-out



Accessories

Crimp contacts

Surface finish silver



Surface finish gold



Qty.	Male	Order No.	Female	Order No.
100	HDC-C-HE-SM0.5AG	1200500000	HDC-C-HE-BM0.5AG	1201100000
100	HDC-C-HE-SM0.75-1AG	1200600000	HDC-C-HE-BM0.75-1AG	1201200000
100	HDC-C-HE-SM1.5AG	1200700000	HDC-C-HE-BM1.5AG	1201300000
100	HDC-C-HE-SM2.5AG	1200800000	HDC-C-HE-BM2.5AG	1201400000
100	HDC-C-HE-SM4.0AG	1200900000	HDC-C-HE-BM4.0AG	1201500000
100	HDC-C-HE-SM0.5AU	1651420000	HDC-C-HE-BM0.5AU	1651470000
100	HDC-C-HE-SM0.75-1AU	1651430000	HDC-C-HE-BM0.75-1AU	1651480000
100	HDC-C-HE-SM1.5AU	1651440000	HDC-C-HE-BM1.5AU	1651490000
100	HDC-C-HE-SM2.5AU	1651450000	HDC-C-HE-BM2.5AU	1651500000
100	HDC-C-HE-SM4.0AU	1651460000	HDC-C-HE-BM4.0AU	1651510000

Tools



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

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

Selection of Housings RockStar® IP65 / IP66 Size 7

For additional housings, refer to Chapter D.

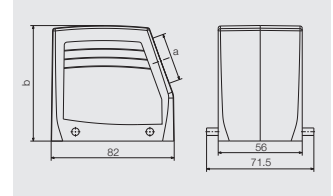


Hood

Plug housing, cable entry sideways



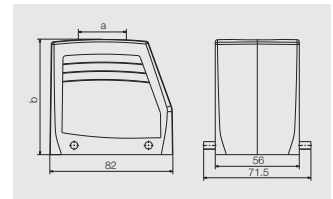
a	Version	Cover	b (mm)	Designation	Order No.
M25	w. threading	without cover 75		HDC 32A TSBU 1M25G	1787960000
M32	w. threading	without cover 75		HDC 32A TSBU 1M32G	1787950000



Plug housing, cable entry at top



a	Version	Cover	b (mm)	Designation	Order No.
M32	w. threading	without cover 75		HDC 32A TOBU 1M32G	1787990000

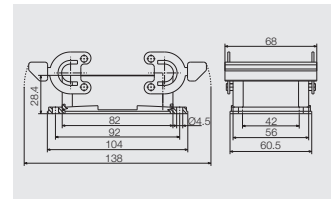


Base

Bulkhead housing



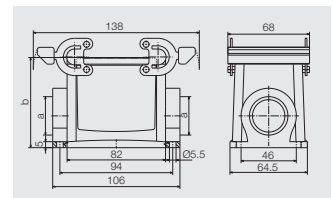
Version	Cover	b (mm)	Designation	Order No.
	without cover 28.4		HDC 32A ABU	1665860000



Base housing



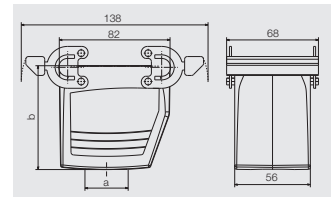
a	Version	Cover	b (mm)	Designation	Order No.
M25	w. threading	without cover 75		HDC 32A SBU 2M25G	1788040000



Coupling housing



a	Version	Cover	b (mm)	Designation	Order No.
M25	w. threading	without cover 76.5		HDC 32A KBU 1M25G	1788080000
M32	w. threading	without cover 76.5		HDC 32A KBU 1M32G	1788070000



HA series - the slim connectors

250 V, 16 A, Size 9

48 + 

Inserts



Tension clamp connection



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

Screw connection



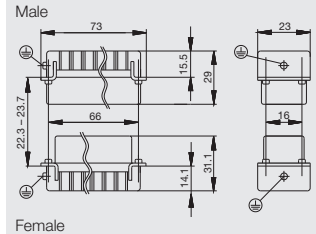
Insert	Designation	Order No.
Male	HDC HA 16 MS	1650770000
Female	HDC HA 16 FS	1650780000
Male	HDC HA 16 MS 17-32	1650880000
Female	HDC HA 16 FS 17-32	1650900000
Male	HDC HA 16 MS 33-48	1650990000
Female	HDC HA 16 FS 33-48	1651020000

Crimp connection



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

Dimensions

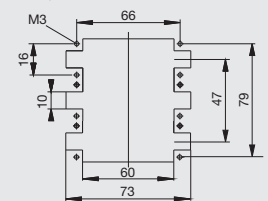


Arrangement of contacts

Male	Female

Female	Male

Mounting cut-out



Accessories

Crimp contacts

Surface finish silver



Surface finish gold



Qty.	Male	Order No.	Female	Order No.
100	HDC-C-HE-SM0.5AG	1200500000	HDC-C-HE-BM0.5AG	1201100000
100	HDC-C-HE-SM0.75-1AG	1200600000	HDC-C-HE-BM0.75-1AG	1201200000
100	HDC-C-HE-SM1.5AG	1200700000	HDC-C-HE-BM1.5AG	1201300000
100	HDC-C-HE-SM2.5AG	1200800000	HDC-C-HE-BM2.5AG	1201400000
100	HDC-C-HE-SM4.0AG	1200900000	HDC-C-HE-BM4.0AG	1201500000
100	HDC-C-HE-SM0.5AU	1651420000	HDC-C-HE-BM0.5AU	1651470000
100	HDC-C-HE-SM0.75-1AU	1651430000	HDC-C-HE-BM0.75-1AU	1651480000
100	HDC-C-HE-SM1.5AU	1651440000	HDC-C-HE-BM1.5AU	1651490000
100	HDC-C-HE-SM2.5AU	1651450000	HDC-C-HE-BM2.5AU	1651500000
100	HDC-C-HE-SM4.0AU	1651460000	HDC-C-HE-BM4.0AU	1651510000

Tools



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



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

Selection of Housings RockStar® IP65 / IP66 Size 9

For additional housings, refer to Chapter D.

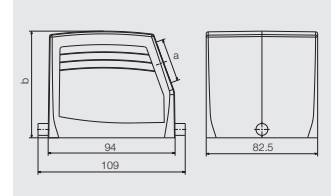


Hood

Plug housing, cable entry sideways



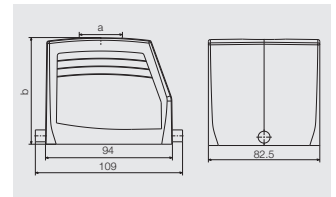
a	Version	Cover	b (mm)	Designation	Order No.
M32	w. threading	without cover 79		HDC 48A TSLU 1M32G	1788550000



Plug housing, cable entry at top



a	Version	Cover	b (mm)	Designation	Order No.
M32	w. threading	without cover 79		HDC 48A TOLU 1M32G	1788560000

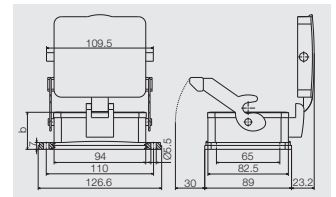


Base

Bulkhead housing



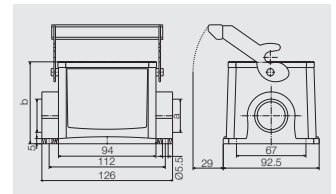
Version	Cover	b (mm)	Designation	Order No.
	with cover 53		HDC 48A ADLU	1666750000
	without cover 36		HDC 48A ALU	1666740000



Base housing



a	Version	Cover	b (mm)	Designation	Order No.
M32	w. threading	without cover 79		HDC 48A SLU 2M32G	1788570000

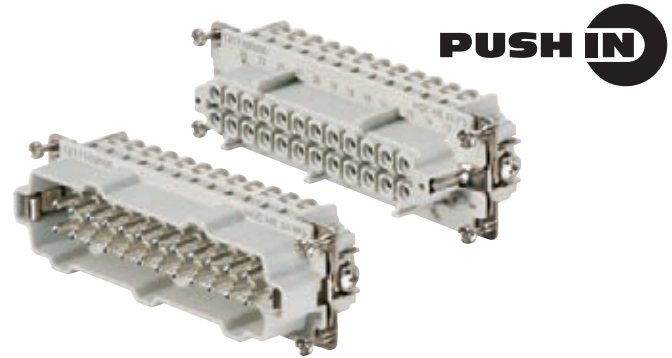


HE series – the universal connectors

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

Weidmüller is also the first manufacturer to deliver this range with the Push-In connection method.

Simply choose the connection system you need.



Technical data

Standards / approvals	
Standards	DIN EN 61984 DIN EN 60664-1
Approvals	UL/CSA**
Inserts	
No. of poles	6, 10, 16, 24, 32, 48
Rated voltage	500 V
Rated voltage to UL/CSA	600 V
Rated current	16 A (6 poles 24 A)
Rated impulse withstand voltage	6 kV
Pollution severity	3
Insulation resistance	$\geq 10^{10} \Omega$
Material	Glass-fibre reinforced PC (in UL list and approved for railway applications)
Temperature range	-40 °C ... +125 °C
Flammability to UL 94	V-0
Mechanical service life	
– Plugging cycles Ag - Surface	≥ 500
– Plugging cycles Au - Surface	≥ 500
Contact resistance	
– Crimp connection	$\leq 1.5 \text{ m}\Omega$
– Screw tension clamp + Push In	$\leq 2 \text{ m}\Omega$
Contacts / Material	
Sockets and plug-in contact	Copper alloy
Surface	Passivated silver, or gold-plated
Clamping range/Stripping length	
– Crimp connection	
– stranded/flexible	0.5...4.0 mm ² /0.5...4.0 mm ² (AWG 20...12) / 7.5 mm
– Screw connection	
– solid/stranded	0.5...2.5 mm ² /0.5...2.5 mm ² (AWG 20...14) / 9 mm
– flexible/flexible with wire end ferrule	0.5...2.5 mm ² /0.5...2.5 mm ² (AWG 20...14) / 9 mm
– Tension clamp connection	
– solid/stranded	0.5...2.5 mm ² /0.5...2.5 mm ² (AWG 20...14) / 8 mm
– flexible/flexible with wire end ferrule	0.5...2.5 mm ² /0.5...2.5 mm ² (AWG 20...14) / 8 mm
– Push In	
– solid	0.75...2.5 mm ² (AWG 20...14) / 8 mm
– flexible with wire end ferrule	0.5...2.5 mm ² (AWG 20...14) / 8 mm
Clamping torque	
– Screw connection	0.5 - 0.55 Nm
SD blades	
– Screw connection	0.6 x 3.5 or PZ 0
– Push In	0.4 x 2.5
– Tension clamp connection	0.5 x 3 or 0.6 x 3.5

** For screw, crimp, and Push-In connections

Contacts / Material

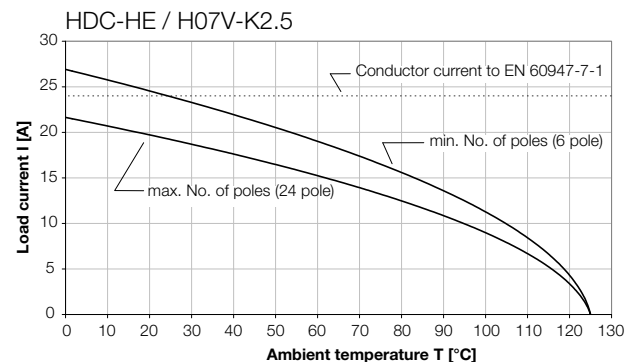
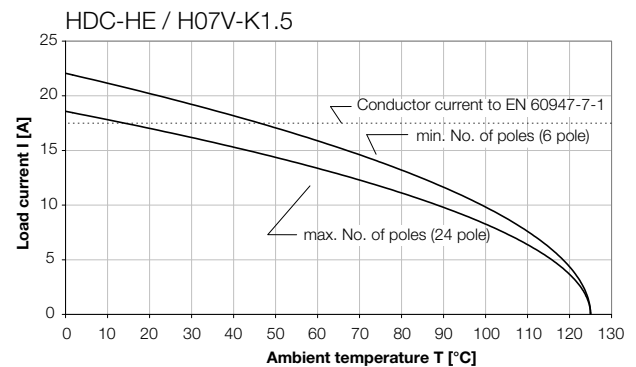
PE connection

– Clamping range	0.5 ... 4 mm ²
– solid / stranded	0.5 ... 4 mm ² / 0.5 ... 4 mm ²
– flexible / flexible with wire end ferrule, DIN 46228 pt. 1	0.5 ... 4 mm ² / 0.5 ... 4 mm ²
– AWG conductor	AWG 20 .. 12
– Stripping length	10 mm
– Clamping torque	1.2 ... 1.5 Nm
– Blade dimensions	SD 0.8 x 4 mm or PZ 1

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

Inserts with push-in connection can be connected to the H07V-U4 conductor.

Derating curves



Overview

		Size	Rated voltage	Rated current	No. of poles	Tension clamp connection	Screw conn. with wire guard spring	Crimp connection	Push In	Axial screw connection	Page
		3	500 V	24 A	6 + ⊥	•	•	•	•		B.18
		4	500 V	16 A	10 + ⊥	•	•	•	•		B.20
		6	500 V	16 A	16 + ⊥	•	•	•	•		B.22
		8	500 V	16 A	24 + ⊥	•	•	•	•		B.24
		10	500 V	16 A	32 + ⊥	•	•	•	•		B.26
		12	500 V	16 A	48 + ⊥	•	•	•	•		B.28

HE series - the universal connectors

500 V, 24 A, Size 3

6 + ⊥

Inserts

Tension clamp connection



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

Screw connection



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

Push-In connection



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

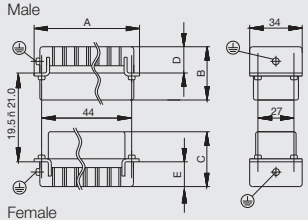
Crimp connection



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

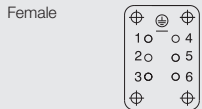
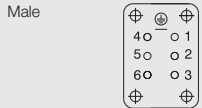


Dimensions



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

Arrangement of contacts



Mounting cut-out



Accessories

Crimp contacts

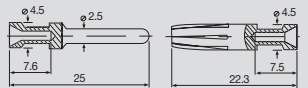
Surface finish silver



Surface finish gold



Qty.	Male	Order No.	Female	Order No.
100	HDC-C-HE-SM0.5AG	1200500000	HDC-C-HE-BM0.5AG	1201100000
100	HDC-C-HE-SM0.75-1AG	1200600000	HDC-C-HE-BM0.75-1AG	1201200000
100	HDC-C-HE-SM1.5AG	1200700000	HDC-C-HE-BM1.5AG	1201300000
100	HDC-C-HE-SM2.5AG	1200800000	HDC-C-HE-BM2.5AG	1201400000
100	HDC-C-HE-SM4.0AG	1200900000	HDC-C-HE-BM4.0AG	1201500000
100	HDC-C-HE-SM0.5AU	1651420000	HDC-C-HE-BM0.5AU	1651470000
100	HDC-C-HE-SM0.75-1AU	1651430000	HDC-C-HE-BM0.75-1AU	1651480000
100	HDC-C-HE-SM1.5AU	1651440000	HDC-C-HE-BM1.5AU	1651490000
100	HDC-C-HE-SM2.5AU	1651450000	HDC-C-HE-BM2.5AU	1651500000
100	HDC-C-HE-SM4.0AU	1651460000	HDC-C-HE-BM4.0AU	1651510000



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



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

Selection of Housings RockStar® IP65 / IP66 Size 3

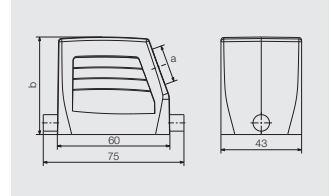
For additional housings, refer to Chapter D.

Hood

Plug housing, cable entry sideways



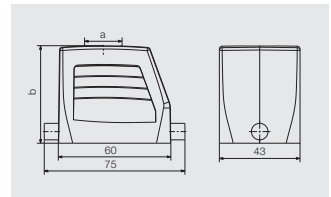
a	Version	Cover	b (mm)	Designation	Order No.
M20	w. threading	without cover 52		HDC 06B TSLU 1M20G	1788100000
M25	w. threading	without cover 52		HDC 06B TSLU 1M25G	1788090000
M25	w. threading	without cover 72		HDC 16D TSLU 1M25G	1787480000



Plug housing, cable entry at top



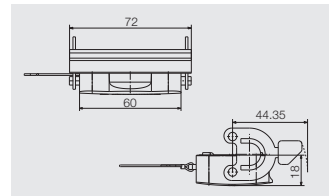
a	Version	Cover	b (mm)	Designation	Order No.
M20	w. threading	without cover 52		HDC 06B TOLU 1M20G	1788120000
M25	w. threading	without cover 52		HDC 06B TOLU 1M25G	1788110000
M25	w. threading	without cover 72		HDC 16D TOLU 1M25G	1787500000
M32	w. threading	without cover 72		HDC 16D TOLU 1M32G	1787490000



Cover



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

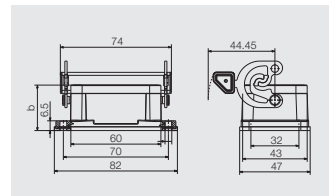


Base

Bulkhead housing



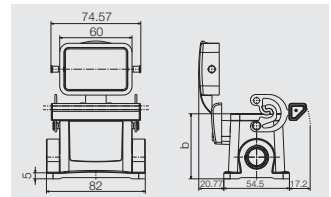
Version	Cover	b (mm)	Designation	Order No.
	without cover 29		HDC 06B ALU	1202100000
	with cover 47		HDC 06B ADLU	1202500000



Base housing



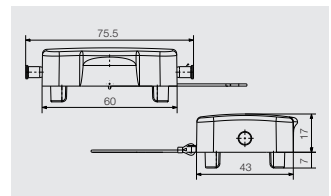
a	Version	Cover	b (mm)	Designation	Order No.
M20	w. threading	without cover 54		HDC 06B SLU 2M20G	1788140000
M20	w. threading	with cover 72		HDC 06B SDLU 2M20G	1788170000
M25	w. threading	without cover 54		HDC 06B SLU 2M25G	1788130000
M25	w. threading	with cover 72		HDC 06B SDLU 2M25G	1788160000



Cover



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



HE series - the universal connectors

500 V, 16 A, Size 4

10 + 

Inserts

Tension clamp connection



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

Screw connection



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

Push-In connection



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

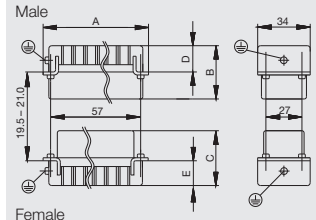
Crimp connection



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

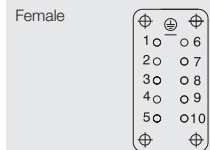
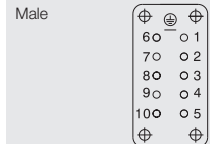


Dimensions

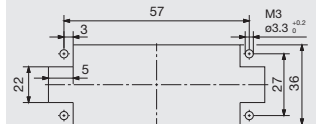


A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
64.00	33.80	33.20	19.10	16.50

Arrangement of contacts



Mounting cut-out



Accessories

Crimp contacts

Surface finish silver



Surface finish gold



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

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



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



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



Selection of Housings RockStar® IP65 / IP66
Size 4

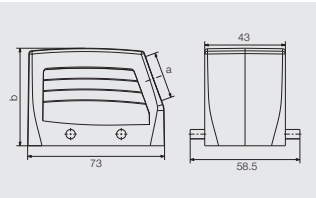
For additional housings, refer to Chapter D.

Hood

Plug housing, cable entry sideways



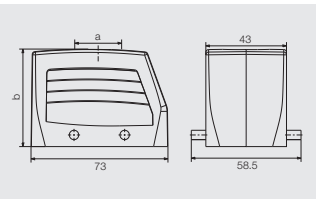
a	Version	Cover	b (mm)	Designation	Order No.
M20	w. threading	without cover 52	HDC 10B TSBU 1M20G		1787560000
M25	w. threading	without cover 52	HDC 10B TSBU 1M25G		1787550000
M25	w. threading	without cover 72	HDC 24D TSBU 1M25G		1787240000
M32	w. threading	without cover 72	HDC 24D TSBU 1M32G		1787230000



Plug housing, cable entry at top



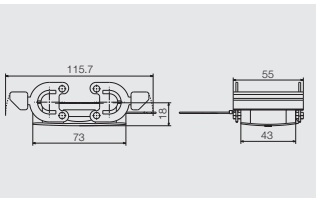
a	Version	Cover	b (mm)	Designation	Order No.
M20	w. threading	without cover 52	HDC 10B TOBU 1M20G		1787600000
M25	w. threading	without cover 52	HDC 10B TOBU 1M25G		1787590000
M25	w. threading	without cover 72	HDC 24D TOBU 1M25G		1787300000
M32	w. threading	without cover 72	HDC 24D TOBU 1M32G		1787290000



Cover



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

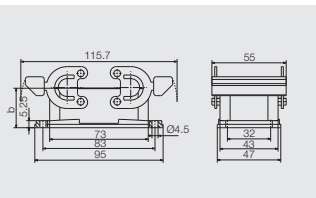


Base

Bulkhead housing



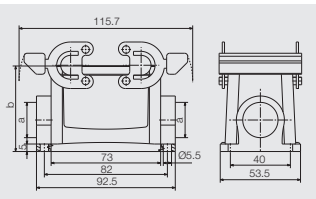
Version	Cover	b (mm)	Designation	Order No.
	without cover	29.3	HDC 10B ABU	1205000000



Base housing



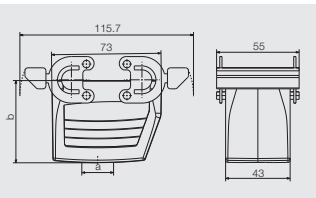
a	Version	Cover	b (mm)	Designation	Order No.
M20	w. threading	without cover 57	HDC 10B SBU 2M20G	1787640000	
M25	w. threading	without cover 57	HDC 10B SBU 2M25G	1787630000	
M25	w. threading	without cover 74	HDC 24D SBU 2M25G	1787350000	
M32	w. threading	without cover 74	HDC 24D SBU 2M32G	1787360000	



Coupling housing



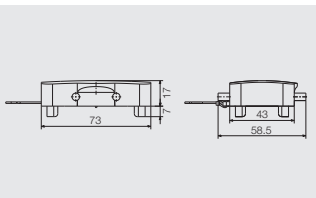
a	Version	Cover	b (mm)	Designation	Order No.
M20	w. threading	without cover	55	HDC 10B KBU 1M20G	1787720000



Cover



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



HE series - the universal connectors

500 V, 16 A, Size 6

16 + ⊕

Inserts

Tension clamp connection



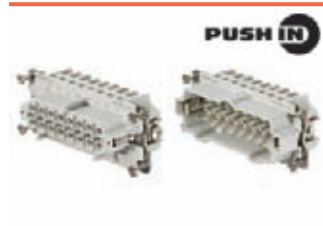
Insert	Designation	Order No.
Male	HDC HE 16 MT	1745840000
Female	HDC HE 16 FT	1745780000

Screw connection



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

Push-In connection



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

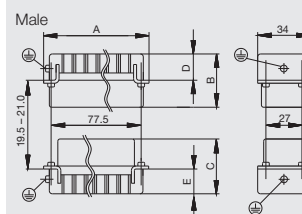
Crimp connection



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



Dimensions

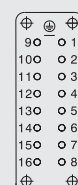


Female

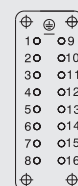
A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
84.50	33.80	33.20	19.10	16.50

Arrangement of contacts

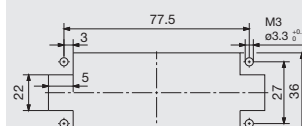
Male



Female



Mounting cut-out



Accessories

Crimp contacts

Surface finish silver

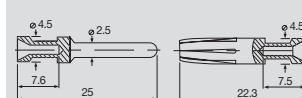


Surface finish gold



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

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



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

Tools



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

Selection of Housings RockStar® IP65 / IP66 Size 6

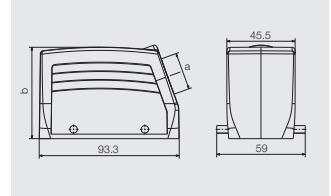
For additional housings, refer to Chapter D.

Hood

Plug housing, cable entry sideways



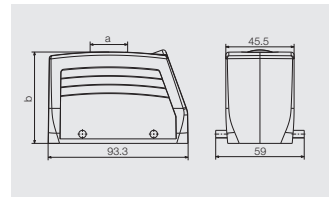
a	Version	Cover	b (mm)	Designation	Order No.
M25	w. threading	without cover 61		HDC 16B TSBV 1M25G	1788180000
M25	w. threading	without cover 76		HDC 40D TSBV 1M25G	1787010000
M32	w. threading	without cover 76		HDC 40D TSBV 1M32G	1787000000



Plug housing, cable entry at top



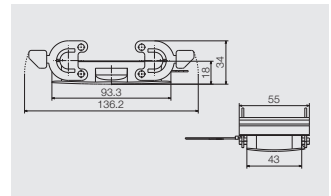
a	Version	Cover	b (mm)	Designation	Order No.
M25	w. threading	without cover 61		HDC 16B TOBU 1M25G	1788210000
M25	w. threading	without cover 76		HDC 40D TOBU 1M25G	1787070000
M32	w. threading	without cover 76		HDC 40D TOBU 1M32G	1787060000



Cover



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

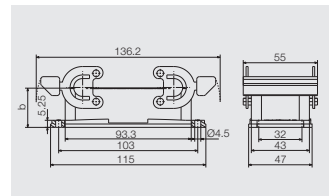


Base

Bulkhead housing



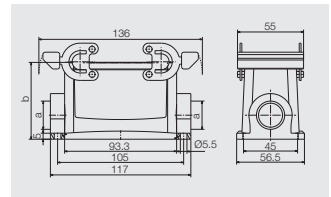
Version	Cover	b (mm)	Designation	Order No.
	without cover 29		HDC 16B ABV	1208600000



Base housing



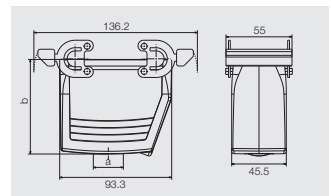
a	Version	Cover	b (mm)	Designation	Order No.
M25	w. threading	without cover 64		HDC 16B SBU 2M25G	1788240000
M25	w. threading	without cover 84		HDC 40D SBU 2M25G	1787120000
M32	w. threading	without cover 84		HDC 40D SBU 2M32G	1787110000



Coupling housing



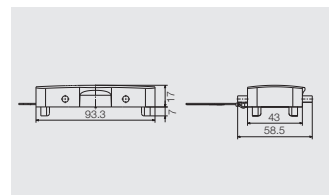
a	Version	Cover	b (mm)	Designation	Order No.
M25	w. threading	without cover 79		HDC 40D KBU 1M25G	1787200000
M32	w. threading	without cover 79		HDC 40D KBU 1M32G	1787190000



Cover



Version	Designation	Order No.
For bases	HDC 16B DODQ 4BO	1665260000



HE series - the universal connectors

500 V, 16 A, Size 8

24 + ⊥

Inserts

Tension clamp connection



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

Screw connection



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

Push-In connection



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

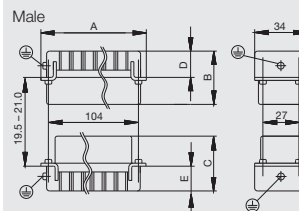
Crimp connection



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

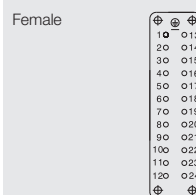
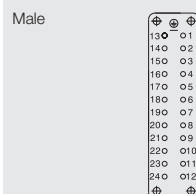


Dimensions

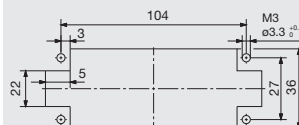


	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
Male	111.00	33.80	33.20	19.10	16.50

Arrangement of contacts



Mounting cut-out



Accessories

Crimp contacts

Surface finish silver



Surface finish gold



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

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



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

Tools



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

Selection of Housings RockStar® IP65 / IP66 Size 8

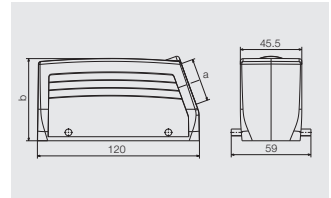
For additional housings, refer to Chapter D.

Hood

Plug housing, cable entry sideways



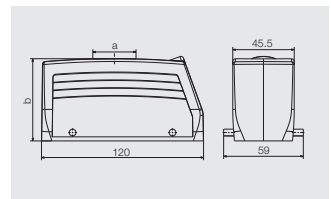
a	Version	Cover	b (mm)	Designation	Order No.
M25	w. threading	without cover 61		HDC 24B TSBU 1M25G	1787760000
M32	w. threading	without cover 61		HDC 24B TSBU 1M32G	1787750000
M25	w. threading	without cover 76		HDC 64D TSBU 1M25G	1786780000
M32	w. threading	without cover 76		HDC 64D TSBU 1M32G	1786770000



Plug housing, cable entry at top



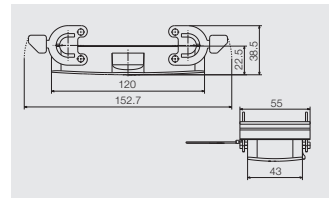
a	Version	Cover	b (mm)	Designation	Order No.
M25	w. threading	without cover 61		HDC 24B TOBU 1M25G	1787820000
M32	w. threading	without cover 61		HDC 24B TOBU 1M32G	1787810000
M32	w. threading	without cover 76		HDC 64D TOBU 1M32G	1786830000



Cover



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

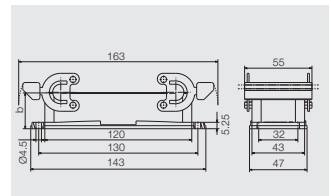


Base

Bulkhead housing



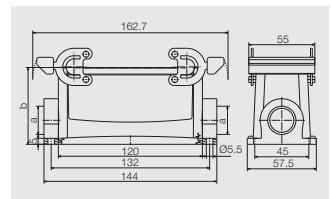
Version	Cover	b (mm)	Designation	Order No.
	without cover 29.3		HDC 24B ABU	1212400000



Base housing



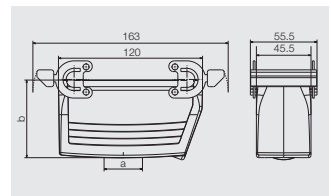
a	Version	Cover	b (mm)	Designation	Order No.
M25	w. threading	without cover 64		HDC 24B SBU 2M25G	1787870000
M25	w. threading	without cover 84		HDC 64D SBU 2M25G	1786890000
M32	w. threading	without cover 84		HDC 64D SBU 2M32G	1786880000



Coupling housing



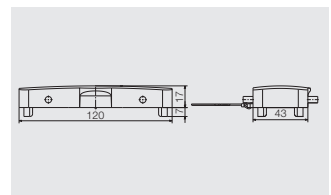
a	Version	Cover	b (mm)	Designation	Order No.
M25	w. threading	without cover 65		HDC 24B KBU 1M25G	1787920000
M32	w. threading	without cover 79		HDC 64D KBU 1M32G	1786960000



Cover



Version	Designation	Order No.
For bases	HDC 24B DODQ 4BO	1665630000



HE series - the universal connectors

500 V, 16 A, Size 10

32 + ⚡

Inserts

Tension clamp connection



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

Screw connection



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

Push-In connection



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

Crimp connection



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

Accessories

Crimp contacts

Surface finish silver



Surface finish gold



Qty.	Male	Order No.	Female	Order No.
100	HDC-C-HE-SM0.5AG	1200500000	HDC-C-HE-BM0.5AG	1201100000
100	HDC-C-HE-SM0.75-1AG	1200600000	HDC-C-HE-BM0.75-1AG	1201200000
100	HDC-C-HE-SM1.5AG	1200700000	HDC-C-HE-BM1.5AG	1201300000
100	HDC-C-HE-SM2.5AG	1200800000	HDC-C-HE-BM2.5AG	1201400000
100	HDC-C-HE-SM4.0AG	1200900000	HDC-C-HE-BM4.0AG	1201500000
100	HDC-C-HE-SM0.5AU	1651420000	HDC-C-HE-BM0.5AU	1651470000
100	HDC-C-HE-SM0.75-1AU	1651430000	HDC-C-HE-BM0.75-1AU	1651480000
100	HDC-C-HE-SM1.5AU	1651440000	HDC-C-HE-BM1.5AU	1651490000
100	HDC-C-HE-SM2.5AU	1651450000	HDC-C-HE-BM2.5AU	1651500000
100	HDC-C-HE-SM4.0AU	1651460000	HDC-C-HE-BM4.0AU	1651510000

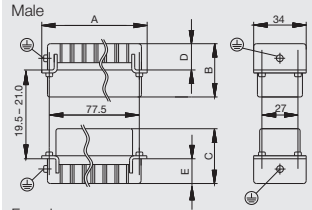
Tools



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



Dimensions



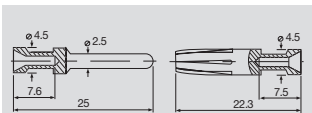
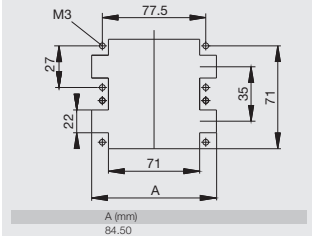
A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
84.50	33.80	33.20	19.10	16.50

Arrangement of contacts

Male	Female
250 017	90 01
260 018	100 02
270 019	110 03
280 020	120 04
290 021	130 05
300 022	140 06
310 023	150 07
320 024	160 08

Female	Male
10 09	170 025
20 010	180 026
30 011	190 027
40 012	200 028
50 013	210 029
60 014	220 030
70 015	230 031
80 016	240 032

Mounting cut-out



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

Selection of Housings RockStar® IP65 / IP66
Size 10

For additional housings, refer to Chapter D.

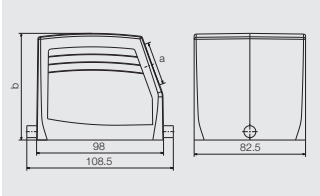


Hood

Plug housing, cable entry sideways



a	Version	Cover	b (mm)	Designation	Order No.
M32	w. threading	without cover	79	HDC 32B TSLU 1M32G	1788420000

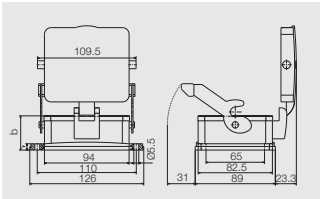


Base

Bulkhead housing



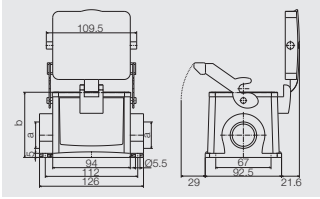
Version	Cover	b (mm)	Designation	Order No.
	with cover	55	HDC 32B ADLU	1219800000
	without cover	38	HDC 32B ALU	1219500000



Base housing



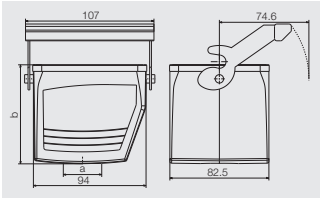
a	Version	Cover	b (mm)	Designation	Order No.
M32	w. threading	with cover	96	HDC 32B SDLU 2M32G	1788490000
M32	w. threading	without cover	79	HDC 32B SLU 2M32G	1788470000



Coupling housing



a	Version	Cover	b (mm)	Designation	Order No.
M32	w. threading	without cover	83	HDC 32B KLU 1M32G	1788500000



HE series - the universal connectors

500 V, 16 A, Size 12

48 + 

Inserts

Tension clamp connection



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

Screw connection



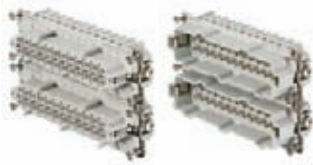
Insert	Designation	Order No.
Male	HDC HE 24 MS	1211100000
Female	HDC HE 24 FS	1211300000
Male	HDC HE 24 MS 25-48	1220800000
Female	HDC HE 24 FS 25-48	1221200000

Push-In connection



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

Crimp connection



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

Accessories

Crimp contacts

Surface finish silver



Surface finish gold



Tools

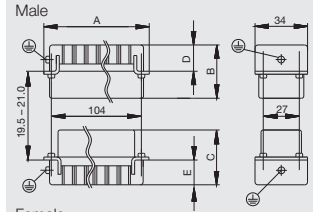


Qty.	Male	Order No.	Female	Order No.
100	HDC-C-HE-SM0.5AG	1200500000	HDC-C-HE-BM0.5AG	1201100000
100	HDC-C-HE-SM0.75-1AG	1200600000	HDC-C-HE-BM0.75-1AG	1201200000
100	HDC-C-HE-SM1.5AG	1200700000	HDC-C-HE-BM1.5AG	1201300000
100	HDC-C-HE-SM2.5AG	1200800000	HDC-C-HE-BM2.5AG	1201400000
100	HDC-C-HE-SM4.0AG	1200900000	HDC-C-HE-BM4.0AG	1201500000
100	HDC-C-HE-SM0.5AU	1651420000	HDC-C-HE-BM0.5AU	1651470000
100	HDC-C-HE-SM0.75-1AU	1651430000	HDC-C-HE-BM0.75-1AU	1651480000
100	HDC-C-HE-SM1.5AU	1651440000	HDC-C-HE-BM1.5AU	1651490000
100	HDC-C-HE-SM2.5AU	1651450000	HDC-C-HE-BM2.5AU	1651500000
100	HDC-C-HE-SM4.0AU	1651460000	HDC-C-HE-BM4.0AU	1651510000

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



Dimensions



Female

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

Arrangement of contacts

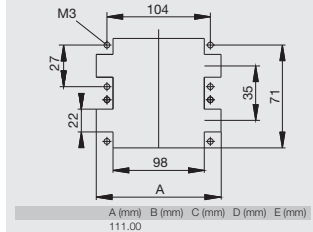
Male

370	025	130	01
380	026	140	02
390	027	150	03
400	028	160	04
410	029	170	05
420	030	180	06
430	031	190	07
440	032	200	08
450	033	210	09
460	034	220	10
470	035	230	11
480	036	240	12

Female

10	013	250	037
20	014	260	038
30	015	270	039
40	016	280	040
50	017	290	041
60	018	300	042
70	019	310	043
80	020	320	044
90	021	330	045
100	022	340	046
110	023	350	047
120	024	360	048

Mounting cut-out



A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
111.00				



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

Selection of Housings RockStar® IP65 / IP66
Size 12

For additional housings, refer to Chapter D.

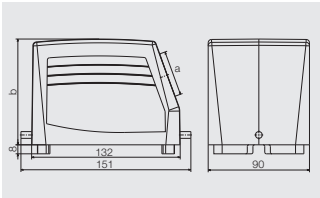


Hood

Plug housing, cable entry sideways



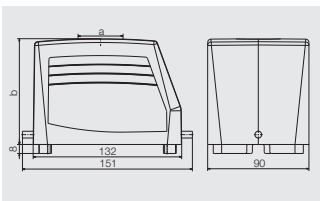
a	Version	Cover	b (mm)	Designation	Order No.
M32	w. threading	without cover 94		HDC 48B TSLU 1M32G	1788320000
M40	w. threading	without cover 94		HDC 48B TSLU 1M40G	1788310000
M50	w. threading	without cover 94		HDC 48B TSLU 1M50G	1788300000



Plug housing, cable entry at top



a	Version	Cover	b (mm)	Designation	Order No.
M32	w. threading	without cover 94		HDC 48B TOLU 1M32G	1788350000
M50	w. threading	without cover 94		HDC 48B TOLU 1M50G	1788330000

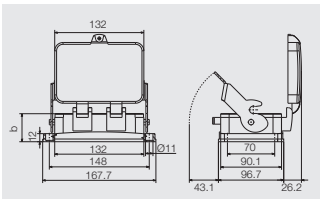


Base

Bulkhead housing



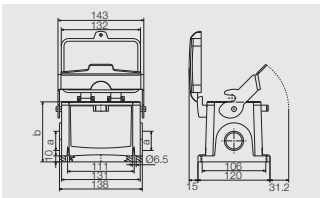
Version	Cover	b (mm)	Designation	Order No.
	with cover 62		HDC 48B ADLU	1222900000



Base housing

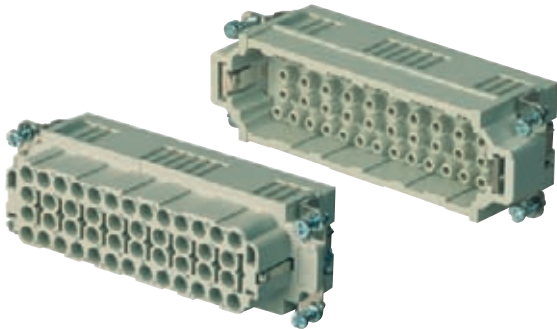


a	Version	Cover	b (mm)	Designation	Order No.
M32	w. threading	with cover 120		HDC 48B SDLU 2M32G	1788390000
M32	w. threading	without cover 100		HDC 48B SLU 2M32G	1788370000
M40	w. threading	without cover 100		HDC 48B SLU 2M40G	1788360000



HEE series – high contact density

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

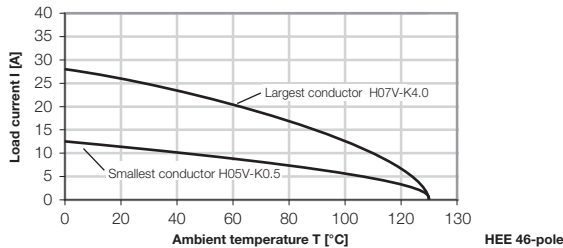
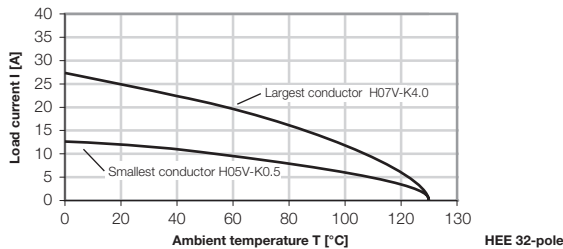
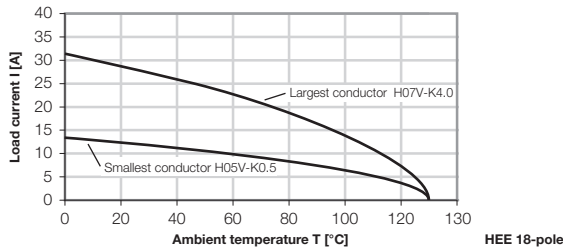
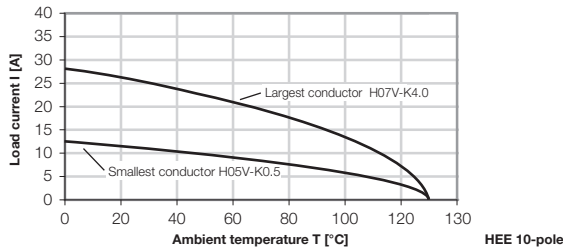


Technical data

Standards / approvals	
Standards	DIN EN 61984 DIN EN 60664-1
Approvals	UL/CSA
Inserts	
No. of poles	10, 18, 32, 46, 64 (+PE)
Rated voltage	500 V
Rated voltage to UL/CSA	600 V
Rated current	16 A
Rated impulse withstand voltage	6 kV
Pollution severity	3
Insulation resistance	$\geq 10^{10} \Omega$
Material	Glass-fibre reinforced PC (in UL list and approved for railway applications)
Temperature range	-40 °C ... +125 °C
Flammability to UL 94	V - 0
Mechanical service life	
– Plugging cycles Ag - Surface	≥ 500
– Plugging cycles Au - Surface	≥ 500
Contact resistance	
– Crimp connection	$\leq 4 \text{ m}\Omega$
Contacts / Material	
Sockets and plug-in contact	Copper alloy
Surface	Passivated silver, or gold-plated
Crimp connection	
– Flexible conductor connection	0.5 - 4 mm ² (AWG 20 ... 12)
– Stripping length	7,5 mm
PE connection	
– Clamping range	0.5 ... 4 mm ²
– solid / stranded	0.5 ... 4 mm ² / 0.5 ... 4 mm ²
– flexible / flexible with wire end ferrule, DIN 46228 pt. 1	0.5 ... 4 mm ² / 0.5 ... 4 mm ²
– AWG conductor	AWG 20 ... 12
– Stripping length	10 mm
– Clamping torque	1.2 ... 1.5 Nm
– Blade dimensions	SD 0.8 x 4 mm or PZ 1

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

Derating curves



Overview

		Size	Rated voltage	Rated current	No. of poles	Tension clamp connection	Screw conn. with wire guard spring	Crimp connection	Push In	Axial screw connection	Page
		3	500 V	16 A	10 + ⊥			•			B.32
		4	500 V	16 A	18 + ⊥			•			B.34
		6	500 V	16 A	32 + ⊥			•			B.36
		8	500 V	16 A	46 + ⊥			•			B.38
		10	500 V	16 A	64 + ⊥			•			B.40

HEE series - high contact density

500 V, 16 A, Size 3

10 + ⊕

Inserts

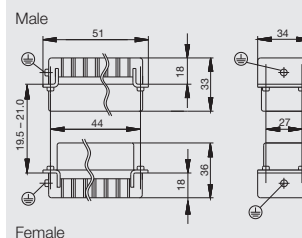
Crimp connection



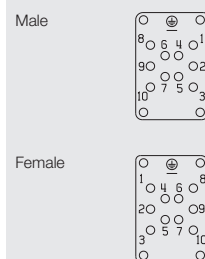
Insert	Designation	Order No.
Male	HDC HEE 10 SCM	1826830000
Female	HDC HEE 10 BCM	1826840000



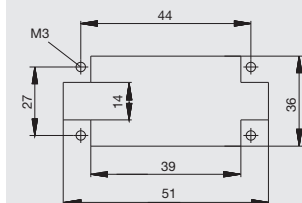
Dimensions



Arrangement of contacts



Mounting cut-out



Accessories

Crimp contacts

Surface finish silver



Surface finish gold

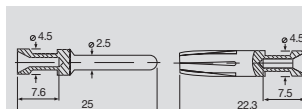


Qty.	Male	Order No.	Female	Order No.
100	HDC-C-HE-SM0.5AG	1200500000	HDC-C-HE-BM0.5AG	1201100000
100	HDC-C-HE-SM0.75-1AG	1200600000	HDC-C-HE-BM0.75-1AG	1201200000
100	HDC-C-HE-SM1.5AG	1200700000	HDC-C-HE-BM1.5AG	1201300000
100	HDC-C-HE-SM2.5AG	1200800000	HDC-C-HE-BM2.5AG	1201400000
100	HDC-C-HE-SM4.0AG	1200900000	HDC-C-HE-BM4.0AG	1201500000
100	HDC-C-HE-SM0.5AU	1651420000	HDC-C-HE-BM0.5AU	1651470000
100	HDC-C-HE-SM0.75-1AU	1651430000	HDC-C-HE-BM0.75-1AU	1651480000
100	HDC-C-HE-SM1.5AU	1651440000	HDC-C-HE-BM1.5AU	1651490000
100	HDC-C-HE-SM2.5AU	1651450000	HDC-C-HE-BM2.5AU	1651500000
100	HDC-C-HE-SM4.0AU	1651460000	HDC-C-HE-BM4.0AU	1651510000

Tools



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



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

Selection of Housings RockStar® IP65 / IP66 Size 3

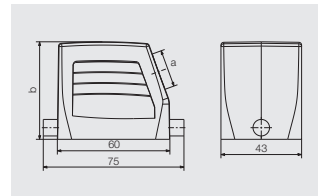
For additional housings, refer to Chapter D.

Hood

Plug housing, cable entry sideways



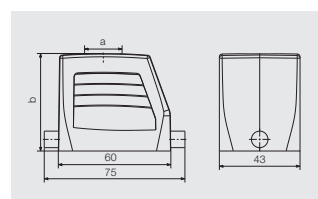
a	Version	Cover	b (mm)	Designation	Order No.
M20	w. threading	without cover 52		HDC 06B TSLU 1M20G	1788100000
M25	w. threading	without cover 52		HDC 06B TSLU 1M25G	1788090000
M25	w. threading	without cover 72		HDC 16D TSLU 1M25G	1787480000



Plug housing, cable entry at top



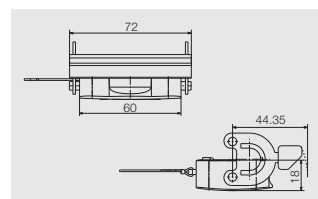
a	Version	Cover	b (mm)	Designation	Order No.
M20	w. threading	without cover 52		HDC 06B TOLU 1M20G	1788120000
M25	w. threading	without cover 52		HDC 06B TOLU 1M25G	1788110000
M25	w. threading	without cover 72		HDC 16D TOLU 1M25G	1787500000
M32	w. threading	without cover 72		HDC 16D TOLU 1M32G	1787490000



Cover



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

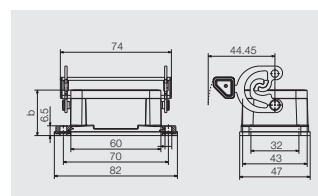


Base

Bulkhead housing



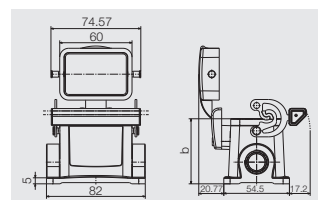
Version	Cover	b (mm)	Designation	Order No.
	without cover 29		HDC 06B ALU	1202100000
	with cover 47		HDC 06B ADLU	1202500000



Base housing



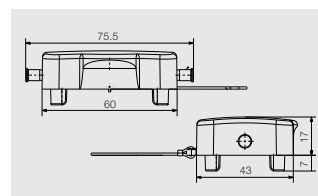
a	Version	Cover	b (mm)	Designation	Order No.
M20	w. threading	without cover 54		HDC 06B SLU 2M20G	1788140000
M20	w. threading	with cover 72		HDC 06B SDLU 2M20G	1788170000
M25	w. threading	without cover 54		HDC 06B SLU 2M25G	1788130000
M25	w. threading	with cover 72		HDC 06B SDLU 2M25G	1788160000



Cover



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



HEE series - high contact density

500 V, 16 A, Size 4

18 + ⚡

Inserts

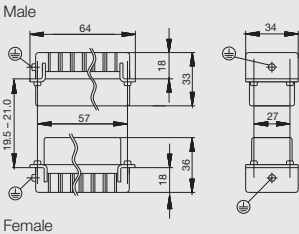
Crimp connection



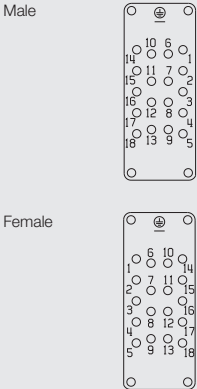
Insert	Designation	Order No.
Male	HDC HEE 18 SCM	1826810000
Female	HDC HEE 18 BCM	1826820000



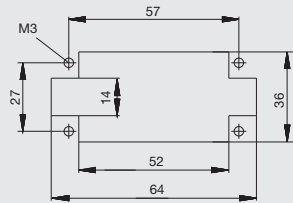
Dimensions



Arrangement of contacts



Mounting cut-out



Accessories

Crimp contacts

Surface finish silver



Surface finish gold



Qty.	Male	Order No.	Female	Order No.
100	HDC-C-HE-SM0.5AG	1200500000	HDC-C-HE-BM0.5AG	1201100000
100	HDC-C-HE-SM0.75-1AG	1200600000	HDC-C-HE-BM0.75-1AG	1201200000
100	HDC-C-HE-SM1.5AG	1200700000	HDC-C-HE-BM1.5AG	1201300000
100	HDC-C-HE-SM2.5AG	1200800000	HDC-C-HE-BM2.5AG	1201400000
100	HDC-C-HE-SM4.0AG	1200900000	HDC-C-HE-BM4.0AG	1201500000
100	HDC-C-HE-SM0.5AU	1651420000	HDC-C-HE-BM0.5AU	1651470000
100	HDC-C-HE-SM0.75-1AU	1651430000	HDC-C-HE-BM0.75-1AU	1651480000
100	HDC-C-HE-SM1.5AU	1651440000	HDC-C-HE-BM1.5AU	1651490000
100	HDC-C-HE-SM2.5AU	1651450000	HDC-C-HE-BM2.5AU	1651500000
100	HDC-C-HE-SM4.0AU	1651460000	HDC-C-HE-BM4.0AU	1651510000

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

Tools



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

Selection of Housings RockStar® IP65 / IP66 Size 4

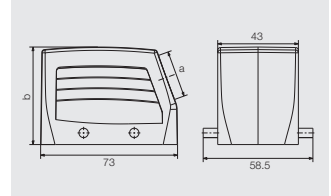
For additional housings, refer to Chapter D.

Hood

Plug housing, cable entry sideways



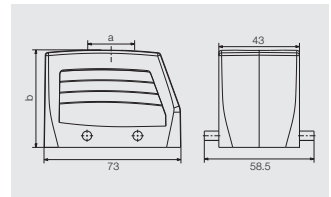
a	Version	Cover	b (mm)	Designation	Order No.
M20	w. threading	without cover 52	HDC 10B TSB 1M20G	1787560000	
M25	w. threading	without cover 52	HDC 10B TSB 1M25G	1787550000	
M25	w. threading	without cover 72	HDC 24D TSB 1M25G	1787240000	
M32	w. threading	without cover 72	HDC 24D TSB 1M32G	1787230000	



Plug housing, cable entry at top



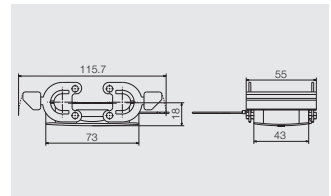
a	Version	Cover	b (mm)	Designation	Order No.
M20	w. threading	without cover 52	HDC 10B TOB 1M20G	1787600000	
M25	w. threading	without cover 52	HDC 10B TOB 1M25G	1787590000	
M25	w. threading	without cover 72	HDC 24D TOB 1M25G	1787300000	
M32	w. threading	without cover 72	HDC 24D TOB 1M32G	1787290000	



Cover



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

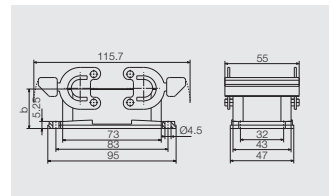


Base

Bulkhead housing



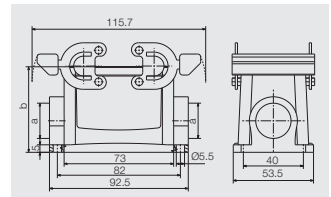
Version	Cover	b (mm)	Designation	Order No.
	without cover 29.3	HDC 10B ABU	1205000000	



Base housing



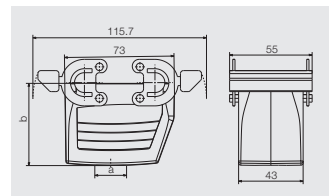
a	Version	Cover	b (mm)	Designation	Order No.
M20	w. threading	without cover 57	HDC 10B SBU 2M20G	1787640000	
M25	w. threading	without cover 57	HDC 10B SBU 2M25G	1787630000	
M25	w. threading	without cover 74	HDC 24D SBU 2M25G	1787350000	
M32	w. threading	without cover 74	HDC 24D SBU 2M32G	1787360000	



Coupling housing



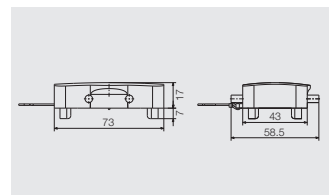
a	Version	Cover	b (mm)	Designation	Order No.
M20	w. threading	without cover 55	HDC 10B KB 1M20G	1787720000	



Cover



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



HEE series - high contact density

500 V, 16 A, Size 6

32 + ⚡

Inserts

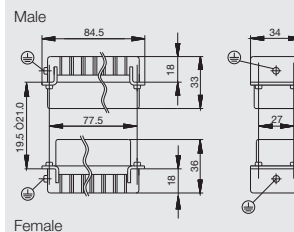
Crimp connection



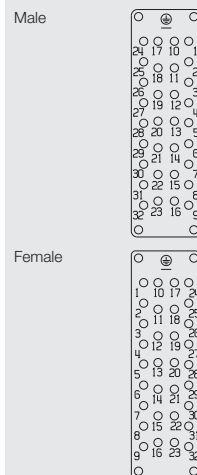
Insert	Designation	Order No.
Male	HDC HEE 32 SCM	1826790000
Female	HDC HEE 32 BCM	1826800000



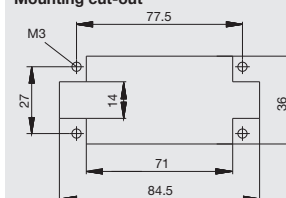
Dimensions



Arrangement of contacts



Mounting cut-out



Accessories

Crimp contacts

Surface finish silver



Surface finish gold



Qty.	Male	Order No.	Female	Order No.
100	HDC-C-HE-SM0.5AG	1200500000	HDC-C-HE-BM0.5AG	1201100000
100	HDC-C-HE-SM0.75-1AG	1200600000	HDC-C-HE-BM0.75-1AG	1201200000
100	HDC-C-HE-SM1.5AG	1200700000	HDC-C-HE-BM1.5AG	1201300000
100	HDC-C-HE-SM2.5AG	1200800000	HDC-C-HE-BM2.5AG	1201400000
100	HDC-C-HE-SM4.0AG	1200900000	HDC-C-HE-BM4.0AG	1201500000
100	HDC-C-HE-SM0.5AU	1651420000	HDC-C-HE-BM0.5AU	1651470000
100	HDC-C-HE-SM0.75-1AU	1651430000	HDC-C-HE-BM0.75-1AU	1651480000
100	HDC-C-HE-SM1.5AU	1651440000	HDC-C-HE-BM1.5AU	1651490000
100	HDC-C-HE-SM2.5AU	1651450000	HDC-C-HE-BM2.5AU	1651500000
100	HDC-C-HE-SM4.0AU	1651460000	HDC-C-HE-BM4.0AU	1651510000

Tools



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

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

Selection of Housings RockStar® IP65 / IP66 Size 6

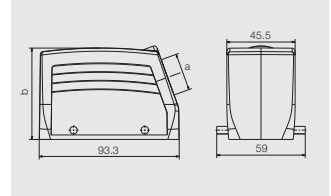
For additional housings, refer to Chapter D.

Hood

Plug housing, cable entry sideways



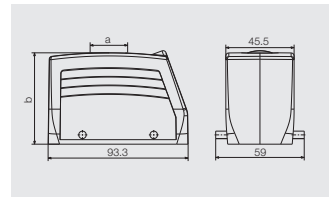
a	Version	Cover	b (mm)	Designation	Order No.
M25	w. threading	without cover 61	HDC 16B TSBU 1M25G	1788180000	
M25	w. threading	without cover 76	HDC 40D TSBU 1M25G	1787010000	
M32	w. threading	without cover 76	HDC 40D TSBU 1M32G	1787000000	



Plug housing, cable entry at top



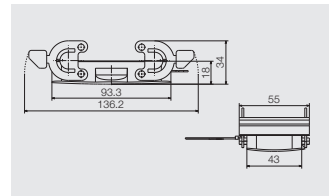
a	Version	Cover	b (mm)	Designation	Order No.
M25	w. threading	without cover 61	HDC 16B TOBU 1M25G	1788210000	
M25	w. threading	without cover 76	HDC 40D TOBU 1M25G	1787070000	
M32	w. threading	without cover 76	HDC 40D TOBU 1M32G	1787060000	



Cover



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

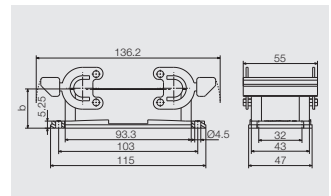


Base

Bulkhead housing



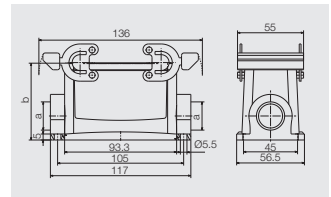
Version	Cover	b (mm)	Designation	Order No.
	without cover 29	HDC 16B ABU	1208600000	



Base housing



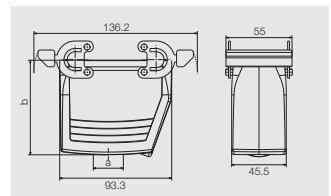
a	Version	Cover	b (mm)	Designation	Order No.
M25	w. threading	without cover 64	HDC 16B SBU 2M25G	1788240000	
M25	w. threading	without cover 84	HDC 40D SBU 2M25G	1787120000	
M32	w. threading	without cover 84	HDC 40D SBU 2M32G	1787110000	



Coupling housing



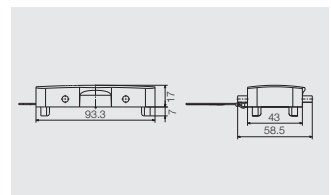
a	Version	Cover	b (mm)	Designation	Order No.
M25	w. threading	without cover 79	HDC 40D KBU 1M25G	1787200000	
M32	w. threading	without cover 79	HDC 40D KBU 1M32G	1787190000	



Cover



Version	Designation	Order No.
For bases	HDC 16B DODQ 4BO	1665260000



HEE series - high contact density

500 V, 16 A, Size 8

46 + 

Inserts

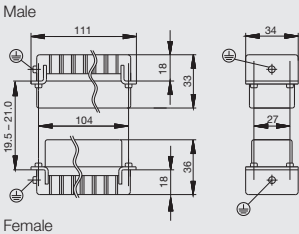
Crimp connection



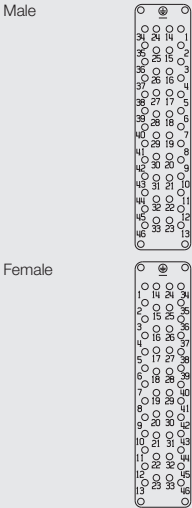
Insert	Designation	Order No.
Male	HDC HEE 46 SCM	1826770000
Female	HDC HEE 46 BCM	1826780000



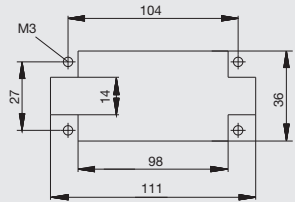
Dimensions



Arrangement of contacts



Mounting cut-out



Accessories

Crimp contacts

Surface finish silver



Surface finish gold



Qty.	Male	Order No.	Female	Order No.
100	HDC-C-HE-SM0.5AG	1200500000	HDC-C-HE-BM0.5AG	1201100000
100	HDC-C-HE-SM0.75-1AG	1200600000	HDC-C-HE-BM0.75-1AG	1201200000
100	HDC-C-HE-SM1.5AG	1200700000	HDC-C-HE-BM1.5AG	1201300000
100	HDC-C-HE-SM2.5AG	1200800000	HDC-C-HE-BM2.5AG	1201400000
100	HDC-C-HE-SM4.0AG	1200900000	HDC-C-HE-BM4.0AG	1201500000
100	HDC-C-HE-SM0.5AU	1651420000	HDC-C-HE-BM0.5AU	1651470000
100	HDC-C-HE-SM0.75-1AU	1651430000	HDC-C-HE-BM0.75-1AU	1651480000
100	HDC-C-HE-SM1.5AU	1651440000	HDC-C-HE-BM1.5AU	1651490000
100	HDC-C-HE-SM2.5AU	1651450000	HDC-C-HE-BM2.5AU	1651500000
100	HDC-C-HE-SM4.0AU	1651460000	HDC-C-HE-BM4.0AU	1651510000

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

Tools



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

Selection of Housings RockStar® IP65 / IP66 Size 8

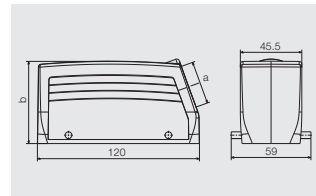
For additional housings, refer to Chapter D.

Hood

Plug housing, cable entry sideways



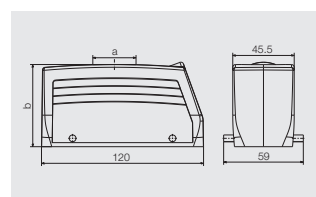
a	Version	Cover	b (mm)	Designation	Order No.
M25	w. threading	without cover 61	HDC 24B TSB 1M25G		1787760000
M32	w. threading	without cover 61	HDC 24B TSB 1M32G		1787750000
M25	w. threading	without cover 76	HDC 64D TSB 1M25G		1786780000
M32	w. threading	without cover 76	HDC 64D TSB 1M32G		1786770000



Plug housing, cable entry at top



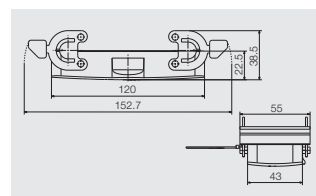
a	Version	Cover	b (mm)	Designation	Order No.
M25	w. threading	without cover 61	HDC 24B TOBU 1M25G		1787820000
M32	w. threading	without cover 61	HDC 24B TOBU 1M32G		1787810000
M32	w. threading	without cover 76	HDC 64D TOBU 1M32G		1786830000



Cover



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

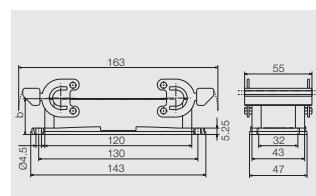


Base

Bulkhead housing



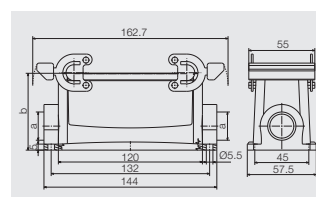
Version	Cover	b (mm)	Designation	Order No.
	without cover 29.3	HDC 24B ABU		1212400000



Base housing



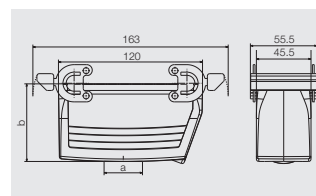
a	Version	Cover	b (mm)	Designation	Order No.
M25	w. threading	without cover 64	HDC 24B SBU 2M25G		1787870000
M25	w. threading	without cover 84	HDC 64D SBU 2M25G		1786890000
M32	w. threading	without cover 84	HDC 64D SBU 2M32G		1786880000



Coupling housing



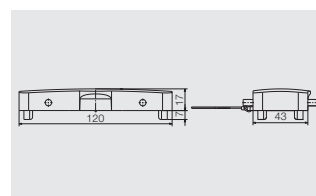
a	Version	Cover	b (mm)	Designation	Order No.
M25	w. threading	without cover 65	HDC 24B KBU 1M25G		1787920000
M32	w. threading	without cover 79	HDC 64D KBU 1M32G		1786960000



Cover



Version	Designation	Order No.
For bases	HDC 24B DODQ 4BO	1665630000



HEE series - high contact density

500 V, 16 A, Size 10

64 + ⊕

Inserts

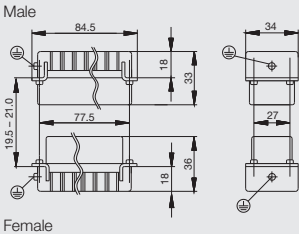


Crimp connection

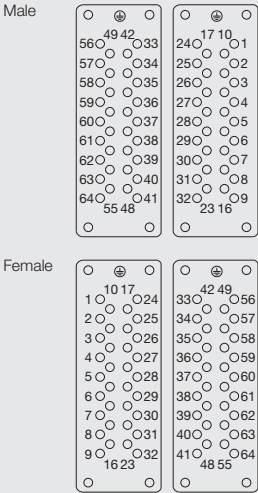


Insert	Designation	Order No.
Male	HDC HEE 32 SCM	1826790000
Female	HDC HEE 32 BCM	1826800000
Male	HDC HEE 32 SCM 33-64	1018950000
Female	HDC HEE 32 BCM 33-64	1018960000

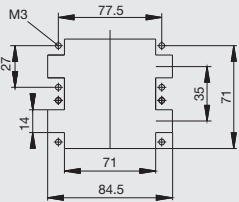
Dimensions



Arrangement of contacts



Mounting cut-out



Accessories

Crimp contacts

Surface finish silver



Surface finish gold



Qty.	Male	Order No.	Female	Order No.
100	HDC-C-HE-SM0.5AG	1200500000	HDC-C-HE-BM0.5AG	1201100000
100	HDC-C-HE-SM0.75-1AG	1200600000	HDC-C-HE-BM0.75-1AG	1201200000
100	HDC-C-HE-SM1.5AG	1200700000	HDC-C-HE-BM1.5AG	1201300000
100	HDC-C-HE-SM2.5AG	1200800000	HDC-C-HE-BM2.5AG	1201400000
100	HDC-C-HE-SM4.0AG	1200900000	HDC-C-HE-BM4.0AG	1201500000
100	HDC-C-HE-SM0.5AU	1651420000	HDC-C-HE-BM0.5AU	1651470000
100	HDC-C-HE-SM0.75-1AU	1651430000	HDC-C-HE-BM0.75-1AU	1651480000
100	HDC-C-HE-SM1.5AU	1651440000	HDC-C-HE-BM1.5AU	1651490000
100	HDC-C-HE-SM2.5AU	1651450000	HDC-C-HE-BM2.5AU	1651500000
100	HDC-C-HE-SM4.0AU	1651460000	HDC-C-HE-BM4.0AU	1651510000

Tools



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

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

Selection of Housings RockStar® IP65 / IP66 Size 10

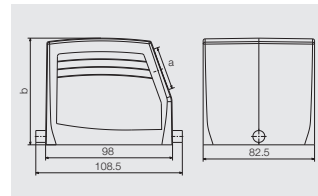
For additional housings, refer to Chapter D.

Hood

Plug housing, cable entry sideways



a	Version	Cover	b (mm)	Designation	Order No.
M32	w. threading	without cover	79	HDC 32B TSLU 1M32G	1788420000

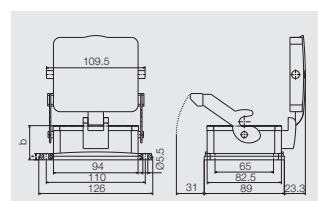


Base

Bulkhead housing



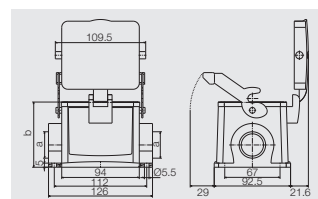
Version	Cover	b (mm)	Designation	Order No.
	with cover	55	HDC 32B ADLU	1219800000
	without cover	38	HDC 32B ALU	1219500000



Base housing



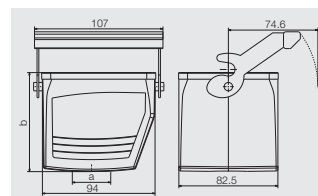
a	Version	Cover	b (mm)	Designation	Order No.
M32	w. threading	with cover	96	HDC 32B SDLU 2M32G	1788490000
M32	w. threading	without cover	79	HDC 32B SLU 2M32G	1788470000



Coupling housing



a	Version	Cover	b (mm)	Designation	Order No.
M32	w. threading	without cover	83	HDC 32B KLU 1M32G	1788500000



HD series – the flexible connectors

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

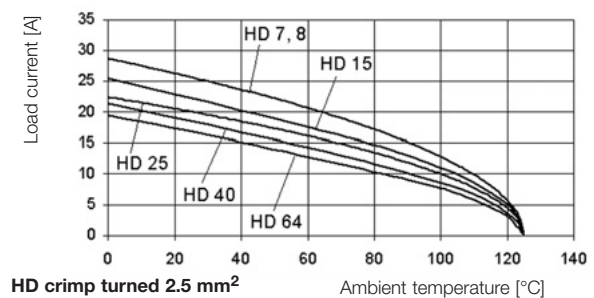
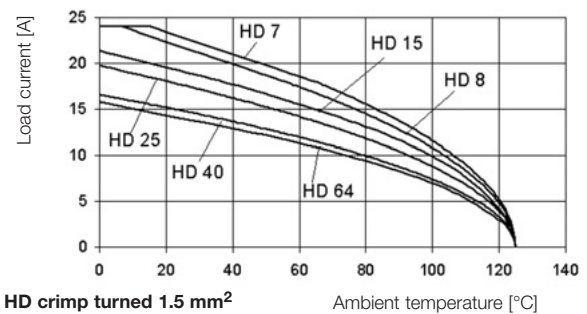


Technical data

Standards / approvals	
Standards	DIN EN 61984 DIN EN 60664-1 DIN EN 175301-801
Approvals	UL/CSA
Inserts	
No. of poles	7, 15, 16, 20, 25, 40, 50, 64, 80, 124 (+PE), 8
Rated voltage	250 V
Rated voltage to UL/CSA	600 V
Rated current	10 A
Rated impulse withstand voltage	4 kV
Pollution severity	3
Insulation resistance	$\geq 10^{10} \Omega$
Material	Glass-fibre reinforced PC (in UL list and approved for railway applications)
Temperature range	-40 °C ... +125 °C
Flammability to UL 94	V-0
Mechanical service life	
– Plugging cycles Ag - Surface	≥ 500
– Plugging cycles Au - Surface	≥ 500
Contact resistance	
– Crimp connection	$\leq 4 \text{ m}\Omega$
Contacts / Material	
Sockets and plug-in contact	Copper alloy
Surface	Passivated silver, or gold-plated
Crimp connection	
– Flexible conductor connection	0.14 - 2.5 mm ² (AWG 26 ... 14)
– Stripping length	8.0 mm
PE connection	
– Clamping range	0.5 ... 2.5 mm ²
– solid / stranded	0.5 ... 2.5 mm ² / 0.5 ... 2.5 mm ²
– flexible / flexible with wire end ferrule, DIN 46228 pt. 1	0.5 ... 2.5 mm ² / 0.5 ... 2.5 mm ²
– AWG conductor	AWG 20 ... 14
– Stripping length	10 mm
– Clamping torque	1.2 ... 1.5 Nm
– Blade dimensions	SD 0.8 x 4 mm or PZ 1

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

Derating curves



Overview

		Size	Rated voltage	Rated current	No. of poles	Tension clamp connection	Screw conn. with wire guard spring	Crimp connection	Push In	Axial screw connection	Page
		1	250 V	10 A	7 + ⊕			•			B.44
		1	42 V	10 A	8			•			B.46
		2	250 V	10 A	15 + ⊕			•			B.48
		3	250 V	10 A	16 + ⊕			•			B.50
		4	250 V	10 A	24 + ⊕			•			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

HD series - the flexible connectors

250 V, 10 A, Size 1

7 + 

Inserts

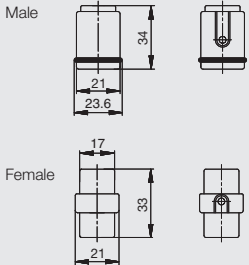


Crimp connection

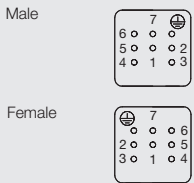


Insert	Designation	Order No.
Male	HDC HD 7 MC	1650570000
Female	HDC HD 7 FC	1650580000
Note Reduce the voltage to 42 V when using metal housings		

Dimensions



Arrangement of contacts



Accessories

Crimp contacts

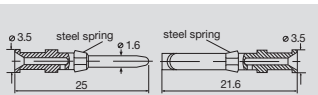
Surface finish silver



Surface finish gold



Qty.	Male	Order No.	Female	Order No.
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-SM0.75-1AG	1601750000	HDC-C-HD-BM0.75-1AG	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
100	HDC-C-HD-SM0.14-0.37AU	1651620000	HDC-C-HD-BM0.14-0.37AU	1651670000
100	HDC-C-HD-SM0.5AU	1651630000	HDC-C-HD-BM0.5AU	1651680000
100	HDC-C-HD-SM0.75-1AU	1651640000	HDC-C-HD-BM0.75-1AU	1651690000
100	HDC-C-HD-SM1.5AU	1651650000	HDC-C-HD-BM1.5AU	1651700000
100	HDC-C-HD-SM2.5AU	1651660000	HDC-C-HD-BM2.5AU	1651710000



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

Tools



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

Selection of Housings RockStar® IP65 Size 1

For additional housings, refer to Chapter D.

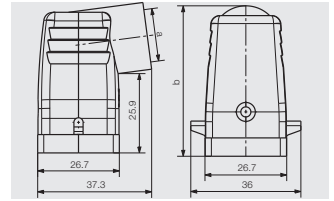
Hood

Material: Plastic

Plug housing, cable entry sideways



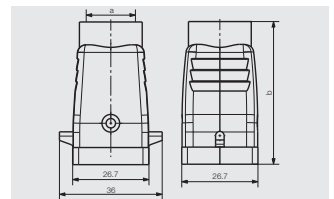
a	Version	Cover	b (mm)	Designation	Order No.
M20	w. threading	without cover	49.2	HDC 07A TWLU 1M20G	1788510000



Plug housing, cable entry at top



a	Version	Cover	b (mm)	Designation	Order No.
M20	w. threading	without cover	50	HDC 07A TOLU 1M20G	1788520000

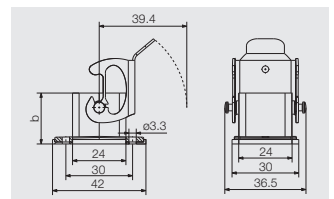


Base

Bulkhead housing



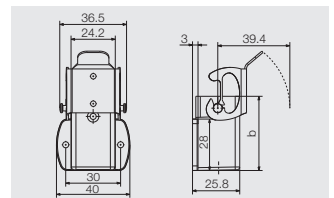
Version	Cover	b (mm)	Designation	Order No.
	without cover	23	HDC 07A ALU	1652410000



Base housing



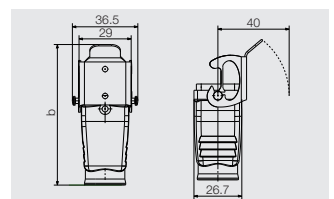
a	Version	Cover	b (mm)	Designation	Order No.
M20	w. threading	without cover	41.5	HDC 07A SLU 1M20G	1788530000



Coupling housing



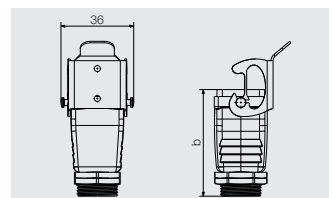
a	Version	Cover	b (mm)	Designation	Order No.
M20	w. threading	without cover	53.5	HDC 07A KOLU 1M20G	1788540000



Screw mounting housing



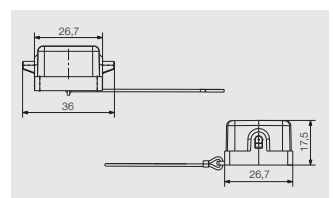
a	Version	Cover	b (mm)	Designation	Order No.
PG 13.5	w. threading	without cover	54	HDC 07A ELU 1PG13G	1900990000



Cover



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



HD series - the flexible connectors

42 V, 10 A, Size 1

8

Inserts

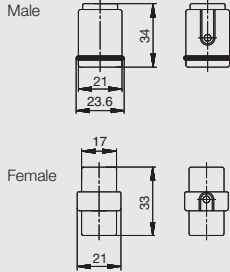


Crimp connection

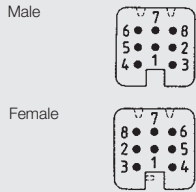


Insert	Designation	Order No.
Male	HDC HD 8 MC	1650590000
Female	HDC HD 8 FC	1650600000
Note Reduce the voltage to 42 V when using metal housings		

Dimensions



Arrangement of contacts



Accessories

Crimp contacts

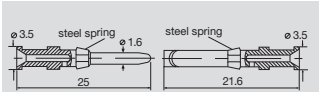
Surface finish silver



Surface finish gold



Qty.	Male	Order No.	Female	Order No.
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-SM0.75-1AG	1601750000	HDC-C-HD-BM0.75-1AG	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
100	HDC-C-HD-SM0.14-0.37AU	1651620000	HDC-C-HD-BM0.14-0.37AU	1651670000
100	HDC-C-HD-SM0.5AU	1651630000	HDC-C-HD-BM0.5AU	1651680000
100	HDC-C-HD-SM0.75-1AU	1651640000	HDC-C-HD-BM0.75-1AU	1651690000
100	HDC-C-HD-SM1.5AU	1651650000	HDC-C-HD-BM1.5AU	1651700000
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Tools



Crimping tool	Order No.
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Contact removal tool	
Removal Tool HD	1866730000