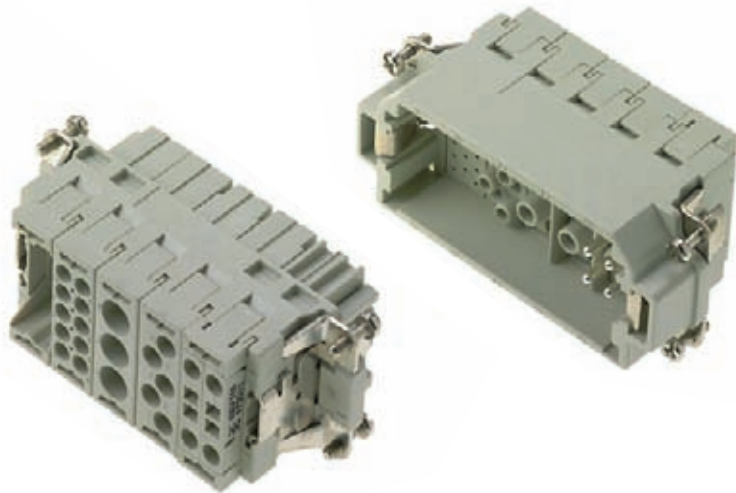


RockStar® ConCept modular system

RockStar® ConCept modular system	Overview	C.2
	ConCept modules	C.3
	ConCept bus modules	C.12
	ConCept RJ45 modules	C.19
	ConCept module frame	C.20
	ModuFlex C	C.32

RockStar® ConCept modular system



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

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

The following modules are available:

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

You have two alternatives:

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

The advantages:

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

CM-3 Concept module / turned contacts



Technical Data

Contact inserts

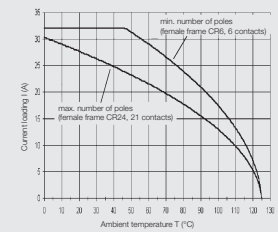
Rated current	40 A
Rated voltage	630 V
Rated impulse withstand voltage	8.0 kV
Pollution severity	3
Insulation resistance	10 ¹² Ω
Overvoltage category	III
Volume resistance	≤ 4mΩ
UL 94 flammability class	V-0

Contacts

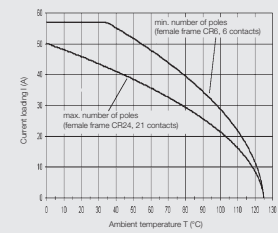
Contact dia.	3.6 mm
Connection cross-section	1.5-10 mm ²
AWG conductor	AWG 16-AWG 8
Base material	copper alloy
Silver surface	3 μm
Gold surface	

Note

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



ConCept module CM-3
Conductor H07V-K 4.0 mm²



ConCept module CM-3
Conductor H07V-K 10.0 mm²

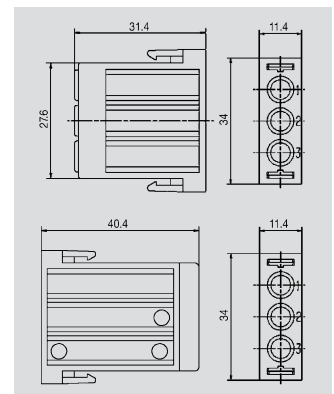
Modules

Crimp connection



Insert	Designation	Order No.
Male	HDC CM 3 MC	1758360000
Female	HDC CM 3 FC	1758370000
Male	HDC CM 3 MC MR	1879030000
Female	HDC CM 3 FC MR	1879040000

Note MR = module release lever



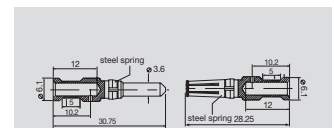
Accessories

Crimp contacts

Surface silver



Qty.	Male	Order No.	Female	Order No.
100	HDC-C-M3-SM1.5AG	1698120000	HDC-C-M3-BM1.5AG	1698130000
100	HDC-C-M3-SM2.5AG	1698140000	HDC-C-M3-BM2.5AG	1698150000
100	HDC-C-M3-SM4.0AG	1682260000	HDC-C-M3-BM4.0AG	1682270000
100	HDC-C-M3-SM6.0AG	1682280000	HDC-C-M3-BM6.0AG	1682290000
100	HDC-C-M3-SM10.0AG	1682300000	HDC-C-M3-BM10.0AG	1682310000



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

Tools



Crimping tool	Order No.
CTX CM 3.6	9018480000
Contact removal tool	Order No.
Removal Tool CM 3	1866710000

ConCept modules

CM-HE Concept module / turned contacts

Technical Data

Contact inserts

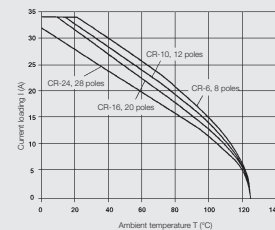
Rated current	25 A
Rated voltage	630 V
Rated impulse withstand voltage	8.0 kV
Pollution severity	3
Insulation resistance	10 ¹² Ω
Overvoltage category	III
Volume resistance	≤ 4mΩ
UL 94 flammability class	V-0

Contacts

Contact dia.	2.5 mm
Connection cross-section	0.5-4 mm ²
AWG conductor	AWG 20-AWG 12
Base material	copper alloy
Silver surface	3 μm
Gold surface	0.8 μm

Note

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



ConCept module CM-HE
Conductor H07V-K 4.0 mm²

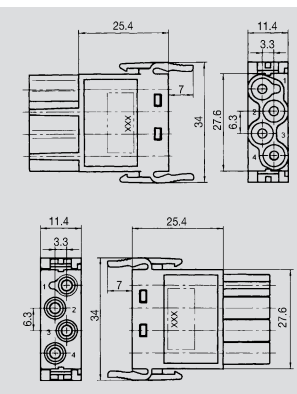
Modules

Crimp connection



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

Note MR = module release lever



Accessories

Crimp contacts

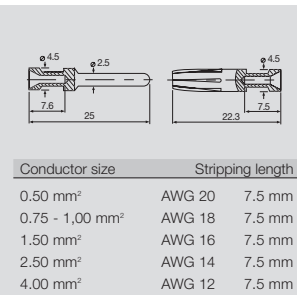
Surface silver



Surface gold



Qty.	Male	Order No.	Female	Order No.
100	HDC-C-HE-SM0.5AG	1200500000	HDC-C-HE-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 size	Stripping length
0.50 mm ²	AWG 20 7.5 mm
0.75 - 1.00 mm ²	AWG 18 7.5 mm
1.50 mm ²	AWG 16 7.5 mm
2.50 mm ²	AWG 14 7.5 mm
4.00 mm ²	AWG 12 7.5 mm

Tools



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

CM-4 Concept module with tension spring connection



Technical Data

Contact inserts

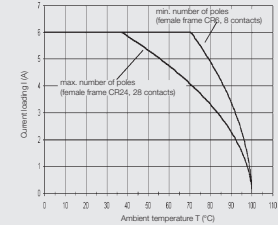
Rated current	14 A
Rated voltage	400 V
Rated impulse withstand voltage	6.0 kV
Pollution severity	3
Insulation resistance	10 ¹² Ω
Overvoltage category	III
Volume resistance	5 mΩ
UL 94 flammability class	V-0

Contacts

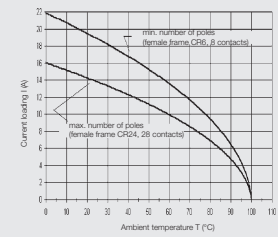
Contact dia.	2.5 mm
Connection cross-section	0.5-2.5 mm ²
AWG conductor	AWG 20-AWG 14
Base material	copper alloy
Silver surface	3 μm
Gold surface	

Note

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



ConCept module CM-4BZF/4SZF
Conductor H05V-K 0.5 mm²



ConCept module CM-4BZF/4SZF
Conductor H07V-K 2.5 mm²

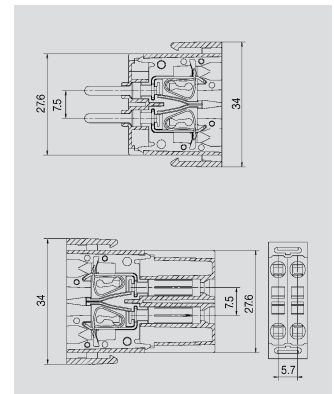
Modules

Tension clamp connection



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

Note



ConCept modules

CM-5 Concept module / turned contacts

Technical Data

Contact inserts

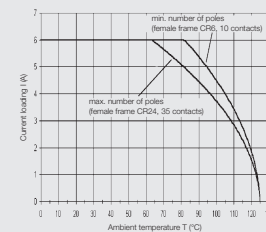
Rated current	20 A
Rated voltage	250 V
Rated impulse withstand voltage	6.0 kV
Pollution severity	3
Insulation resistance	$10^{12} \Omega$
Overvoltage category	III
Volume resistance	$\leq 4m\Omega$
UL 94 flammability class	V-0

Contacts

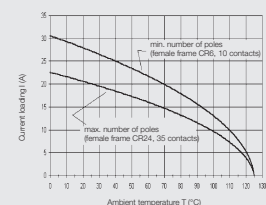
Contact dia.	2.5 mm
Connection cross-section	0.75-4 mm ²
AWG conductor	AWG 20-AWG 12
Base material	copper alloy
Silver surface	3 μ m
Gold surface	

Note

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



ConCept module CM-5
Conductor H05V-K 0.5 mm²



ConCept module CM-5
Conductor H07V-K 4.0 mm²

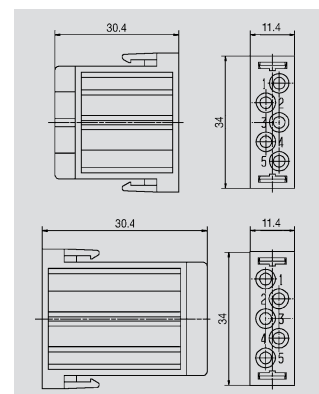
Modules

Crimp connection



Insert	Designation	Order No.
Male	HDC CM 5 MC	1758380000
Female	HDC CM 5 FC	1758390000
Male	HDC CM 5 MC MR	1879020000
Female	HDC CM 5 FC MR	1879010000

Note MR = module release lever



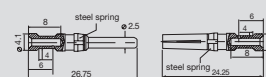
Accessories

Crimp contacts

Surface silver



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



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

Tools



Tool	Order No.
Crimping tool CTX CM 1.6/2.5	9018490000
Contact removal tool Removal Tool CM 5	1866720000

CM-10 Concept module / turned contacts

Technical Data

Contact inserts

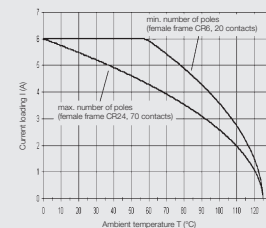
Rated current	10 A
Rated voltage	250 V
Rated impulse withstand voltage	4.0 kV
Pollution severity	3
Insulation resistance	10 ¹¹ Ω
Overvoltage category	III
Volume resistance	≤ 4mΩ
UL 94 flammability class	V-0

Contacts

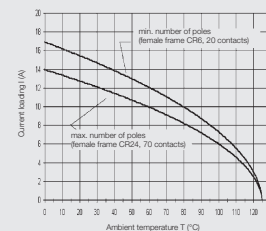
Contact dia.	1.6 mm
Connection cross-section	0.14-2.5 mm ²
AWG conductor	AWG 26-AWG 14
Base material	copper alloy
Silver surface	3 μm
Gold surface	0.8 μm

Note

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



ConCept module CM-10
Conductor H05V-K 0.5 mm²



ConCept module CM-10
Conductor H07V-K 2.5 mm²

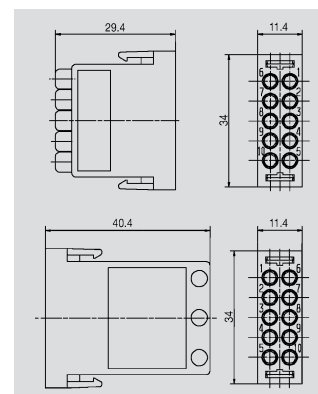
Modules

Crimp connection



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

Note MR = module release lever



Accessories

Crimp contacts

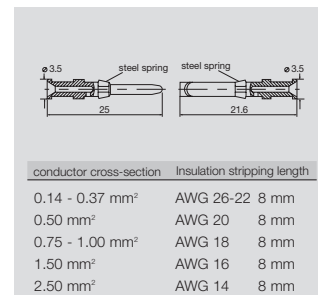
Surface silver



Surface gold



Qty.	Male	Order No.	Female	Order No.
100	HDC-C-HD-SM0.14-0.37AG	1651520000	HDC-C-HD-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



Tools



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

ConCept modules

CM-20 Concept module / turned contacts

Technical Data

Contact inserts

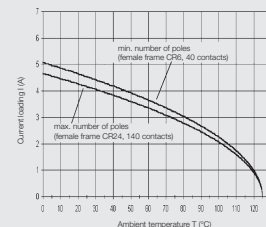
Rated current	4 A
Rated voltage	100 V
Rated impulse withstand voltage	1.5 kV
Pollution severity	3
Insulation resistance	$10^{12} \Omega$
Overvoltage category	III
Volume resistance	$\leq 4 \text{ m}\Omega$
UL 94 flammability class	V-0

Contacts

Contact dia.	1 mm
Connection cross-section	0.08-0.52 mm ²
AWG conductor	AWG 28-AWG 20
Base material	copper alloy
Silver surface	
Gold surface	0.8 μm

Note

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



ConCept-Modul CM-20
AWG-Conductor 20/19

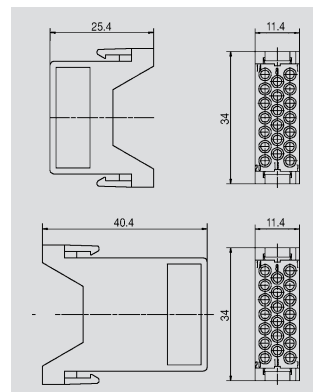
Modules

Crimp connection



Insert	Designation	Order No.
Male	HDC-CM-20SCG GR	1758420000
Female	HDC-CM-20BCG GR	1758430000

Note



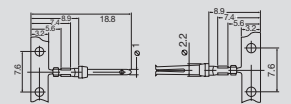
Accessories

Crimp contacts

Surface gold



Qty.	Male	Order No.	Female	Order No.
300	HDC-C-M20-SCG0.08-0.2AU	1682420000	HDC-C-M20-BCG0.08-0.2AU	1682430000
300	HDC-C-M20-SCG0.2-0.52AU	1682440000	HDC-C-M20-BCG0.2-0.52AU	1682450000



conductor cross-section Insulation stripping length
0.08 - 0.20 mm² AWG 28-24 2.5+0.5 mm
0.20 - 0.52 mm² AWG 24-20 2.5+0.5 mm

Tools



Crimping tool	Order No.
HDC-CM-20/CZC9428P	1700900000
Contact removal tool	Order No.
Removal Tool CM 20	1866740000

CM-3 HV



Technical Data

Contact inserts

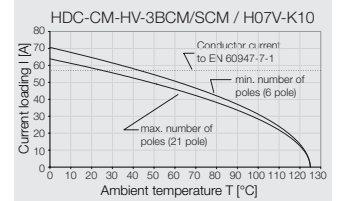
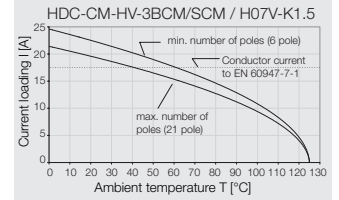
Rated current	57 A
Rated voltage	1000 V
Rated impulse withstand voltage	8.0 kV
Pollution severity	3
Insulation resistance	10 ¹² Ω
Overvoltage category	III
Volume resistance	≤ 4mΩ
UL 94 flammability class	V-0

Contacts

Contact dia.	3.6 mm
Connection cross-section	1.5-10 mm ²
AWG conductor	AWG 12-AWG 7
Base material	copper alloy
Silver surface	3 μm
Gold surface	

Note

Ring cable lugs must be used at the connection to the PE conductor for conductor cross-sections of 6 mm² to 10 mm².



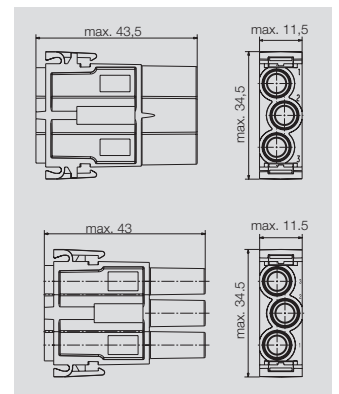
Modules

Crimp connection



Insert	Designation	Order No.
Male	HDC CM HV 3 MC	1862080000
Female	HDC CM HV 3 FC	1862060000
Male	HDC CM HV 3 MC MR	1862000000
Female	HDC CM HV 3 FC MR	1862070000

Note MR = module release lever



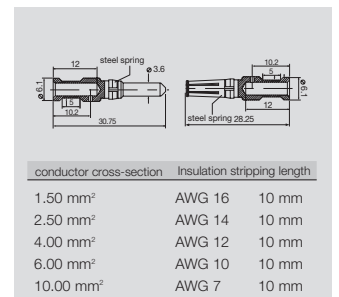
Accessories

Crimp contacts

Surface silver



Qty.	Male	Order No.	Female	Order No.
100	HDC-C-M3-SM1.5AG	1698120000	HDC-C-M3-BM1.5AG	1698130000
100	HDC-C-M3-SM2.5AG	1698140000	HDC-C-M3-BM2.5AG	1698150000
100	HDC-C-M3-SM4.0AG	1682260000	HDC-C-M3-BM4.0AG	1682270000
100	HDC-C-M3-SM6.0AG	1682280000	HDC-C-M3-BM6.0AG	1682290000
100	HDC-C-M3-SM10.0AG	1682300000	HDC-C-M3-BM10.0AG	1682310000



Tools



Crimping tool	Order No.
CTX CM 3.6	9018480000
Contact removal tool	Order No.
Removal Tool CM 3	1866710000

ConCept modules

CM High Current Module



Technical Data

Contact inserts

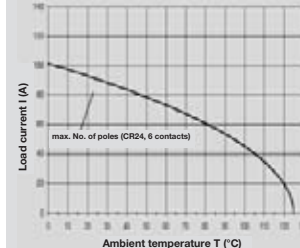
Rated current	82 A
Rated voltage	1000 V
Rated impulse withstand voltage	6.0 kV
Pollution severity	3
Insulation resistance	10 ¹² Ω
Overvoltage category	III
Volume resistance	≤ 4 mΩ
UL 94 flammability class	V-0

Contacts

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

Note

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



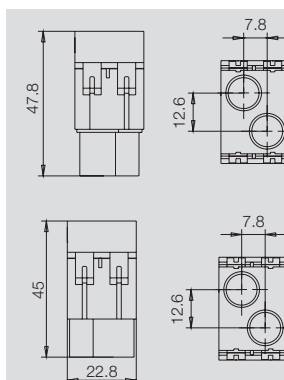
ConCept-Modul CM-2
Conductor 16 mm²

Modules

Screw connection



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

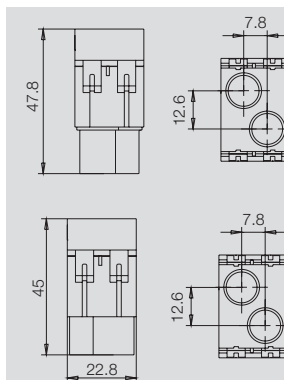


Modules

Screw connection



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



CM Pneumatic



Technical data

Contact inserts

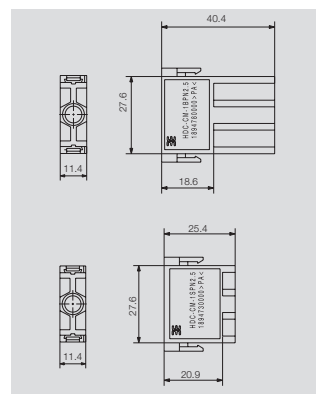
Material of modules	PA 6.6 GF
Material of pneumatic valves	Ms 58 brass
Connection diameter of hose (inside)	2.5 mm or 4 mm
Outside diameter of hose, maximum	8 mm
Temperature range	-20°C to 100°C
Operating pressure of the modules	10 bar
Travel	4 mm

Note valve → socket side

Modules



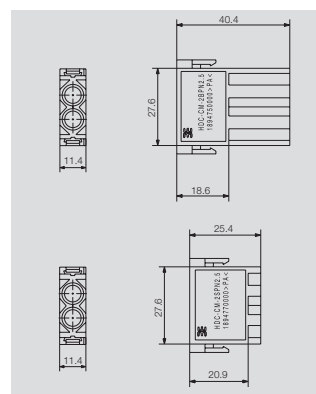
Insert	Designation	Order No.
Male	HDC-CM-1SPN2.5	1894730000
Female	HDC-CM-1BPN2.5	1894780000
Male	HDC-CM-1SPN4.0	1894740000
Female	HDC-CM-1BPN4.0	1894720000



Modules



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



ConCept bus module for screened wires

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

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

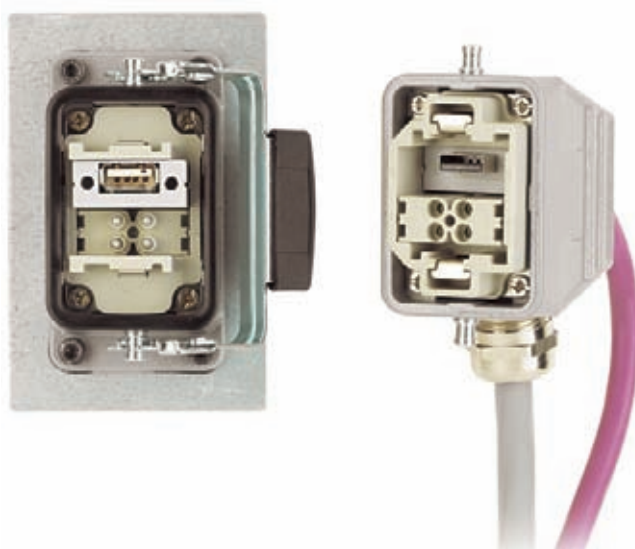
By combining these with other modules, the power supply and other signals for the field device can be connected in a single plug-in connector.

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

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

Advantages

- Simple screw connection
- Simple screen connection



Versions

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



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



Technical data

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

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

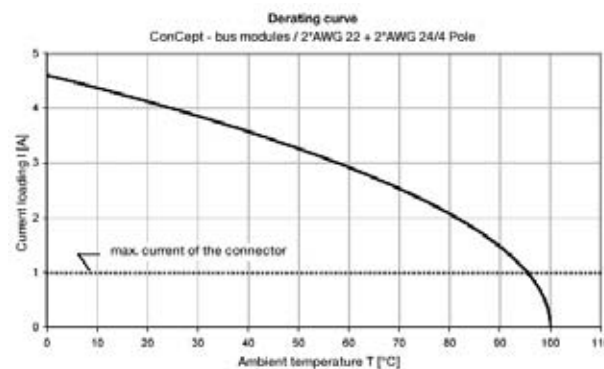
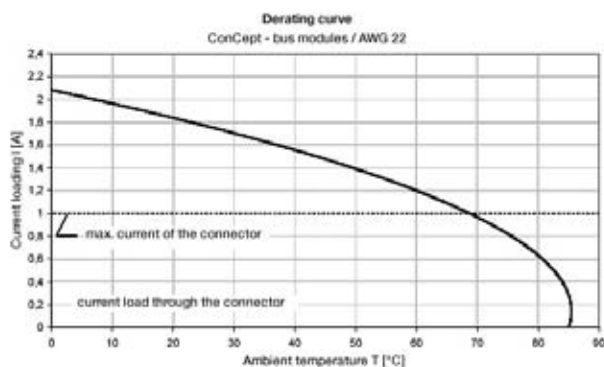
Rated data to VDE 0627		
Rated current	1 A	
Rated voltage	30 V	
Transmission rate	max. 1.5 Mbit/s	

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

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

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

Derating curves



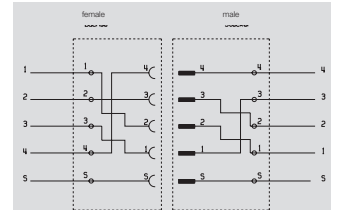
ConCept bus modules

Bus connectors

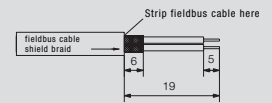
4 poles

Technical data

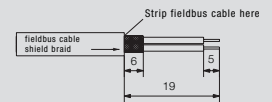
Rated voltage	1 A
Rated current	30 V
Qty	5



male module



female module

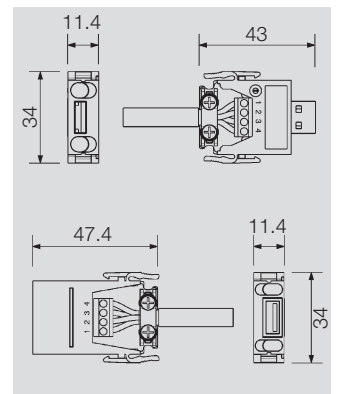


Information

Module



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

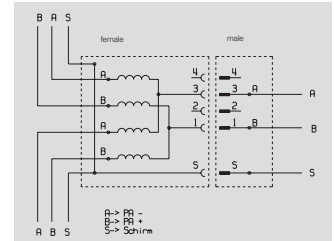


Bus connector with integrated T-exit

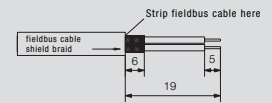
2 poles

Technical data

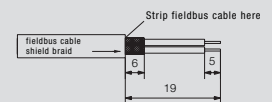
Rated voltage	1 A
Rated current	30 V
Qty	5



male module



female module



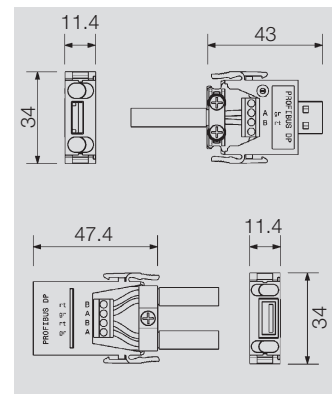
Information

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

Module



Insert	Type	Order No.
male	HDC CM BUS.2SS PDP A	1806060000
female	HDC CM BUS.2BS T PDP C	1806030000



ConCept bus modules

ConCept system bus

Shielded module with additional 4 power contacts



Technical data

Standards	DIN EN 61984 IEC 60664
No. contacts	1 or 4 poles for signal transmission; additional 4 power contacts
Conductor connection system	Crimp
Rated current signal / power contacts	10 A / 20 A
Rated voltage signal / power contacts	50 V / 400 V
Shield	Shield connected to contact carrier using cable clamp
Outside diameter of shielded cable	3 to 6 mm and/or 6 to 9,5 mm
Degree of pollution	3
Rated impulse withstand voltage signal / power	0.8 kV/ 6 kV
Contact resistance	
– Crimp version	< 2 mΩ
Conductor clamping ranges	
– Crimp version	0.5 mm² ... 2.5 mm² signal contacts 0.5 mm² ... 4 mm² power contacts AWG 26 ... 14 signal contacts AWG 18 ... 12 power contacts
Contact material	Copper alloy
Contact carrier	Zinc alloy
Surface	
– Crimp connection	3 μm Ag or 0.8 μm Au signal contacts 3 μm Ag power contacts
Temperature range	–40°C ... + 125°C
Flammability to UL 94	V-0
Material – module	Glass-fibre reinforced PC (in UL list and approved for railway applications)
Earthing	Leading earth contact through module frame; single-sided PE terminal; double-sided possible as option

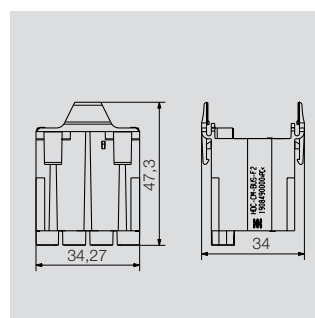
Note

Modules

Female receptacle module



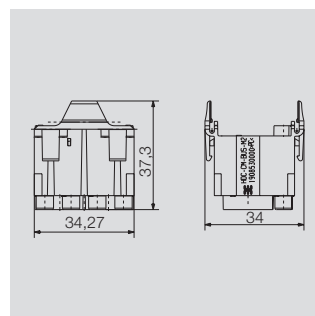
Designation	Order No.
HDC CM Bus F2	1908490000



Male receptacle module



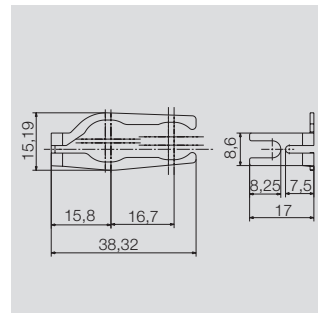
Designation	Order No.
HDC CM Bus M2	1908530000



Earth connection clip



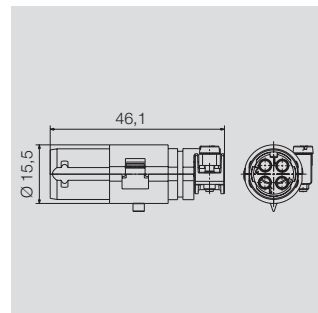
Designation	Order No.
HDC CM Bus GCA	1908510000



4-pole female contact carrier



Designation	Order No.
HDC CM Bus F4 CT	1908500000



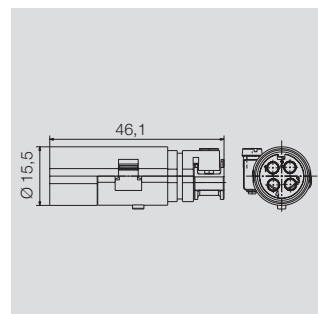
Note:

HD contacts, see page C.18

4-pole male contact carrier



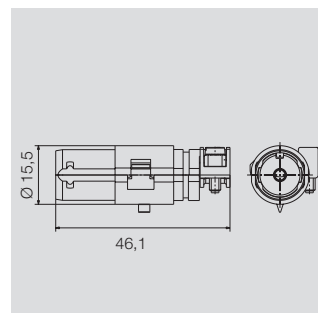
Designation	Order No.
HDC CM Bus M4 CT	1908480000



1-pole female contact carrier



Designation	Order No.
HDC CM Bus F1 CT	1908540000



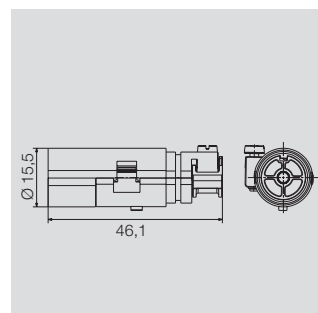
Note:

gold contacts recommended / HD contacts, see page C.18

1-pole male contact carrier



Designation	Order No.
HDC CM Bus M1 CT	1908520000



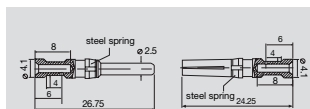
Power contacts

Crimp contacts

Surface Silver



Qty	Male	Order No.	Female	Order No.
100	HDC-C-M5-SM0.75-1.00AG	1682340000	HDC-C-M5-BM0.75-1.00AG	1682350000
100	HDC-C-M5-SM1.5AG	1682360000	HDC-C-M5-BM1.5AG	1682370000
100	HDC-C-M5-SM2.5AG	1682380000	HDC-C-M5-BM2.5AG	1682390000
100	HDC-C-M5-SM4.0AG	1682400000	HDC-C-M5-BM4.0AG	1682410000



Conductor size	Stripping length
0.75 - 1.00 mm ²	AWG 18 7 mm
1.50 mm ²	AWG 16 7 mm
2.50 mm ²	AWG 14 7 mm
4.00 mm ²	AWG 12 7 mm

Tools



Crimping tool	Order No.
CTX CM 1.6 / 2.5	9018490000
Contact release tool	
Removal Tool CM5	1866720000

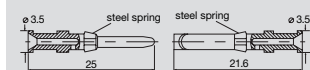
Signal contacts

Crimp contacts

Surface Silver



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-SM0.75-1.00AG	1601750000	HDC-C-HD-BM0.75-1.00AG	1601760000
100	HDC-C-HD-SM1.5AG	1651550000	HDC-C-HD-BM1.5AG	1651600000
100	HDC-C-HD-SM2.5AG	1651560000	HDC-C-HD-BM2.5AG	1651610000



Conductor size	Stripping length
0.14 - 0.37 mm ²	AWG 26-22 8 mm
0.50 mm ²	AWG 20 8 mm
0.75 - 1.00 mm ²	AWG 18 8 mm
1.50 mm ²	AWG 16 8 mm
2.50 mm ²	AWG 14 8 mm

Surface Gold



100	HDC-C-HD-SM0.14-0.37AU	1651620000	HDC-C-HD-BM0.14-0.37AU	1651670000
100	HDC-C-HD-SM0.5AU	1651630000	HDC-C-HD-BM0.5AU	1651680000
100	HDC-C-HD-SM0.75-1.00AU	1651640000	HDC-C-HD-BM0.75-1.00AU	1651690000
100	HDC-C-HD-SM1.5AU	1651650000	HDC-C-HD-BM1.5AU	1651700000
100	HDC-C-HD-SM2.5AU	1651660000	HDC-C-HD-BM2.5AU	1651710000

Tools



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

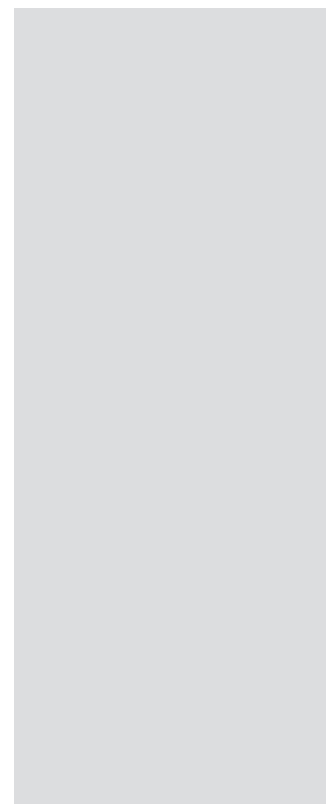
The ConCept RJ45 Modules

RJ45 module with 4 additional power contacts



Technical data

Standards		IEC 60664 IEC 60512
Approvals		VDE
RJ45 module		Cat 5 acc. to ISO / IEC 11801
No. of poles	extra contacts / RJ45	4 / 8
Rated voltage	extra contacts / RJ45	400 V AC / 125 V AC
Rated impulse withstand voltage	extra contacts / RJ45	6 kV / 1.8 kV
Voltage proof	extra contacts / RJ45	3.51 kV / 1.0 kV
Rated current	extra contacts / RJ45	13 A (1) / 1.5 A
Volume (contact) resistance	extra contacts / RJ45	≤ 5 mΩ / ≤ 20 mΩ
Insulation resistance	extra contacts / RJ45	10 ¹⁰ mΩ / 5 ⁹ mΩ
Transmission rate		1.5 Mbit/s
Wire-connection method	extra contacts / RJ45	crimp, patch cable
Wire clamping range		0.5 - 2.5mm ²
Flammability class acc. to UL 94		V-0
Temperature range		+ 100°C / 1000h; + 80°C / 1000h; - 20°C / 16h
Plug and pull forces		15-20N – max. 20N
Mating cycles		≥ 500
Materials		
Contact insert		PA 6.6 GF
Insert colour		black
Contact carrier		CuZn / CuSn
Contact surface		Ag (silver) Au (gold)
Extra contacts (crimp)		HD
Stripping length (Insulation)		see HD contacts
Accessories		9009030000 SD 0.4x2.5x75
Screwdriver		
Contact release tool		1866730000 Removal Tool HD
⁽¹⁾ 2 modules, 40 °C ambient temperature, 1.5mm ²		
Note: EN 60603-7:1997 stipulates that the RJ45 connector must not have any of the reinforcing plastic protruding over any side of the protective shield.		

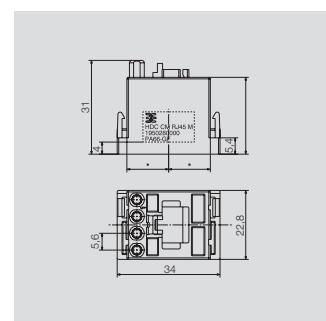


Modules

Female



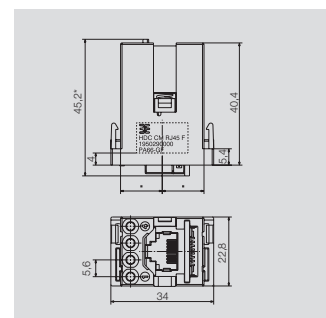
Designation	Order No.
HDC CM RJ45 F	1950290000



Male



Designation	Order No.
HDC CM RJ45 M	1950280000



ConCept module frame

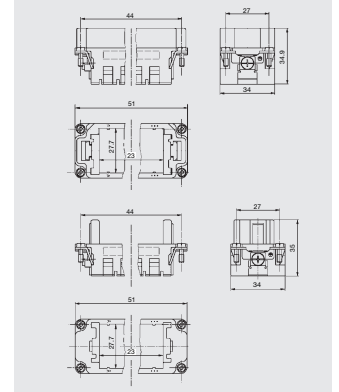
Size 3

Frame



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

Note For 2 modules



Selection of Housings RockStar® IP65
Size 3

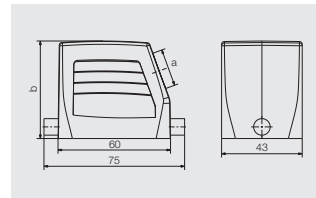


Hood

Hood, Cable Entry sideways



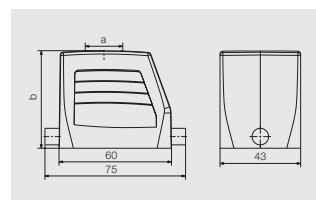
a	Version	Cover	b (mm)	Designation	Order No.
M20	with thread		52	HDC 06B TSLU 1M20G	1788100000
M20	with thread		52	HDC 06B TSLU 1M20G	1805930000
M25	with thread		52	HDC 06B TSLU 1M25G	1788090000
M25	with thread		72	HDC 16D TSLU 1M25G	1787480000



Hood, Cable Entry at top



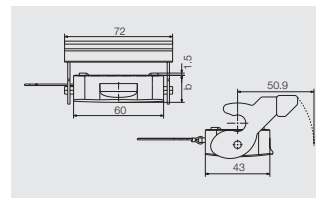
a	Version	Cover	b (mm)	Designation	Order No.
M20	with thread		52	HDC 06B TOLU 1M20G	1788120000
M25	with thread		52	HDC 06B TOLU 1M25G	1788110000
M25	with thread		72	HDC 16D TOLU 1M25G	1787500000
M32	with thread		72	HDC 16D TOLU 1M32G	1787490000



Cover



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

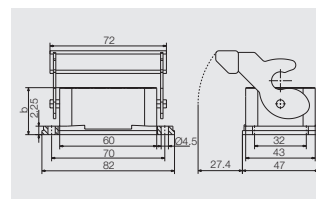


Base

Bulkhead housing



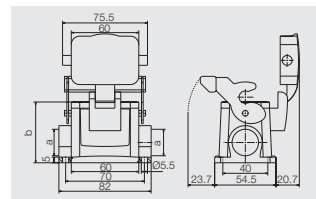
Version	Cover	b (mm)	Designation	Order No.
	with cover	47	HDC 06B ADLU	1202500000
	without cover	29	HDC 06B ALU	1202100000



Base housing



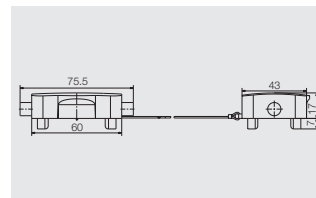
a	Version	Cover	b (mm)	Designation	Order No.
M20	with thread	with cover	72	HDC 06B SDLU 2M20G	1788170000
M25	with thread	with cover	72	HDC 06B SDLU 2M25G	1788160000
M20	with thread	without cover	54	HDC 06B SLU 2M20G	1788140000
M25	with thread	without cover	54	HDC 06B SLU 2M25G	1788130000



Cover



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



ConCept module frame

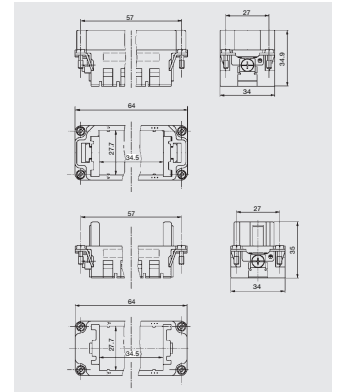
Size 4

Frame



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

Note For 3 modules



Selection of Housings RockStar® IP65
Size 4

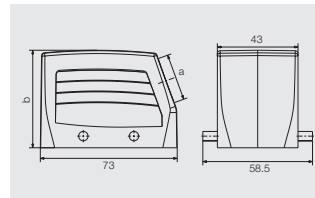


Hood

Hood, Cable Entry sideways



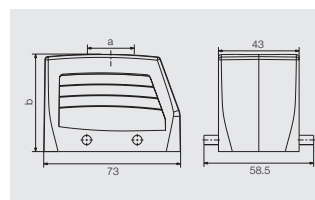
a	Version	Cover	b (mm)	Designation	Order No.
M20	with thread		52	HDC 10B TSBU 1M20G	1787560000
M25	with thread		52	HDC 10B TSBU 1M25G	1787550000
M25	with thread		72	HDC 24D TSBU 1M25G	1787240000
M32	with thread		72	HDC 24D TSBU 1M32G	1787230000



Hood, Cable Entry at top



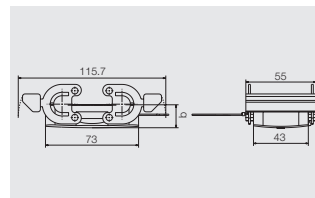
a	Version	Cover	b (mm)	Designation	Order No.
M20	with thread		52	HDC 10B TOBU 1M20G	1787600000
M25	with thread		52	HDC 10B TOBU 1M25G	1787590000
M25	with thread		72	HDC 24D TOBU 1M25G	1787300000
M32	with thread		72	HDC 24D TOBU 1M32G	1787290000



Cover



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

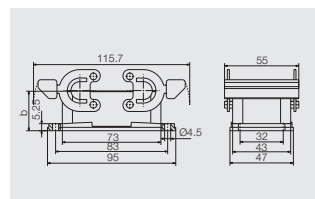


Base

Bulkhead housing



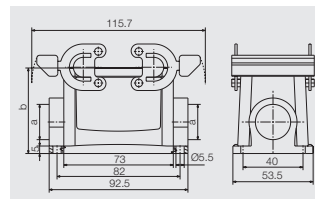
Version	Cover	b (mm)	Designation	Order No.
	without cover	29.3	HDC 10B ABU	1205000000



Base housing



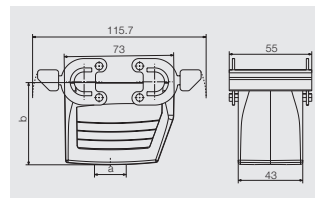
a	Version	Cover	b (mm)	Designation	Order No.
M20	with thread	without cover	57	HDC 10B SBU 2M20G	1787640000
M25	with thread	without cover	57	HDC 10B SBU 2M25G	1787630000
M25	with thread	without cover	74	HDC 24D SBU 2M25G	1787350000
M32	with thread	without cover	74	HDC 24D SBU 2M32G	1787360000



Coupling hood



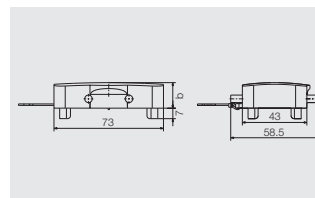
a	Version	Cover	b (mm)	Designation	Order No.
M20	with thread		55	HDC 10B KBU 1M20G	1787720000



Cover



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



ConCept module frame

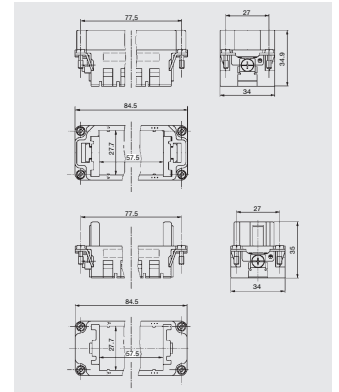
Size 6

Frame



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

Note For 5 modules



Selection of Housings RockStar® IP65
Size 6

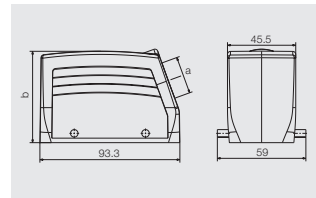


Hood

Hood, Cable Entry sideways



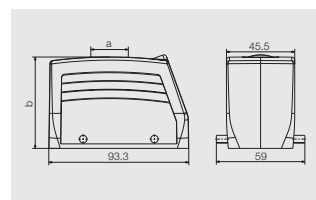
a	Version	Cover	b (mm)	Designation	Order No.
M25	with thread		61	HDC 16B TSBU 1M25G	1788180000
M25	with thread		76	HDC 40D TSBU 1M25G	1787010000
M32	with thread		76	HDC 40D TSBU 1M32G	1787000000



Hood, Cable Entry at top



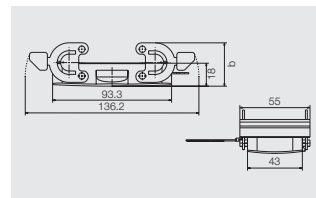
a	Version	Cover	b (mm)	Designation	Order No.
M25	with thread		61	HDC 16B TOBU 1M25G	1788210000
M25	with thread		76	HDC 40D TOBU 1M25G	1787070000
M32	with thread		76	HDC 40D TOBU 1M32G	1787060000



Cover



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

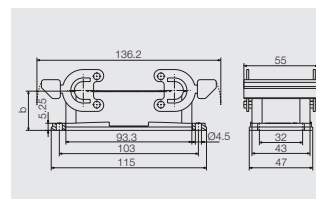


Base

Bulkhead housing



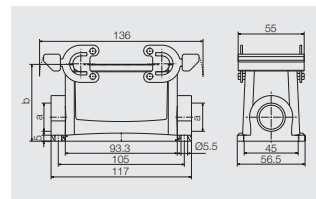
Version	Cover	b (mm)	Designation	Order No.
	without cover 29		HDC 16B ABU	1208600000



Base housing



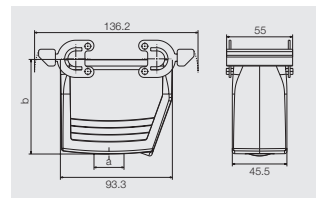
a	Version	Cover	b (mm)	Designation	Order No.
M25	with thread	without cover 64		HDC 16B SBU 2M25G	1788240000
M25	with thread	without cover 84		HDC 40D SBU 2M25G	1787120000
M32	with thread	without cover 84		HDC 40D SBU 2M32G	1787110000



Coupling hood



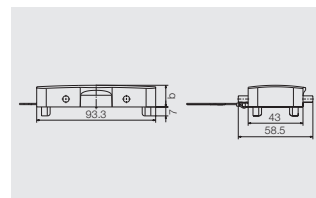
a	Version	Cover	b (mm)	Designation	Order No.
M25	with thread		79	HDC 40D KBU 1M25G	1787200000
M32	with thread		79	HDC 40D KBU 1M32G	1787190000



Cover



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



ConCept module frame

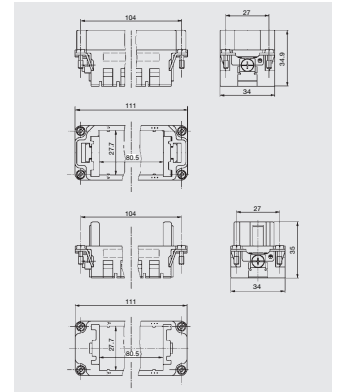
Size 8

Frame



Frame	Designation	Order No.
Male	HDC-CR24-7S GR	1758500000
Female	HDC-CR24-7B GR	1758510000

Note For 7 modules



Selection of Housings RockStar® IP65
Size 8

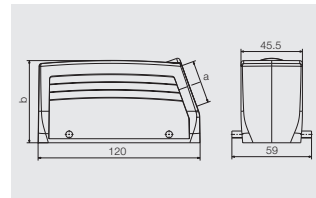


Hood

Hood, Cable Entry sideways



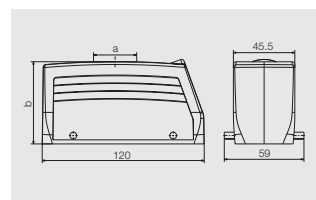
a	Version	Cover	b (mm)	Designation	Order No.
M25	with thread		61	HDC 24B TSBU 1M25G	1787760000
M32	with thread		61	HDC 24B TSBU 1M32G	1787750000
M25	with thread		76	HDC 64D TSBU 1M25G	1786780000
M32	with thread		76	HDC 64D TSBU 1M32G	1786770000



Hood, Cable Entry at top



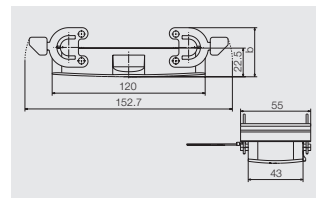
a	Version	Cover	b (mm)	Designation	Order No.
M25	with thread		61	HDC 24B TOBU 1M25G	1787820000
M32	with thread		61	HDC 24B TOBU 1M32G	1787810000
M32	with thread		76	HDC 64D TOBU 1M32G	1786830000



Cover



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

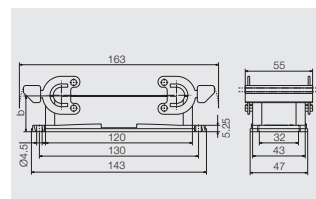


Base

Bulkhead housing



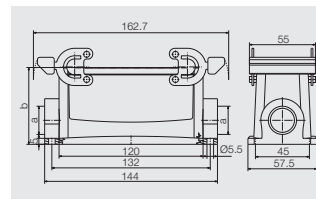
Version	Cover	b (mm)	Designation	Order No.
	without cover	29.3	HDC 24B ABU	1212400000



Base housing



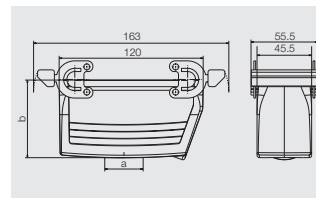
a	Version	Cover	b (mm)	Designation	Order No.
M25	with thread	without cover	64	HDC 24B SBU 2M25G	1787870000
M25	with thread	without cover	84	HDC 64D SBU 2M25G	1786890000
M32	with thread	without cover	84	HDC 64D SBU 2M32G	1786880000



Coupling hood



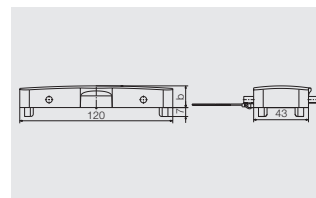
a	Version	Cover	b (mm)	Designation	Order No.
M25	with thread		65	HDC 24B KBU 1M25G	1787920000
M32	with thread		79	HDC 64D KBU 1M32G	1786960000



Cover



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



ConCept module frame

Size 10

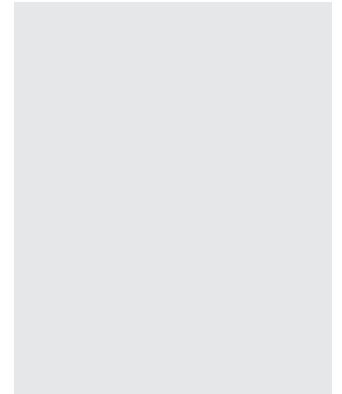


Frame



Frame	Designation	Order No.
Female	HDC-CR16-5B-2 GR	1758530000
Male	HDC-CR16-5S-2 GR	1758520000

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



Selection of Housings RockStar® IP65
Size 10

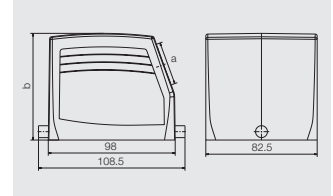


Hood

Hood, Cable Entry sideways



a	Version	Cover	b (mm)	Designation	Order No.
M32	with thread		79	HDC 32B TSLU 1M32G	1788420000

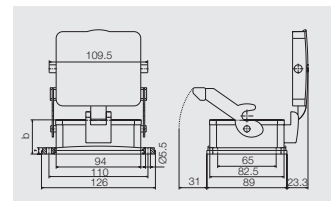


Base

Bulkhead housing



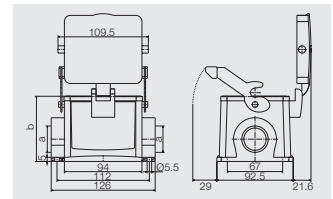
Version	Cover	b (mm)	Designation	Order No.
	with cover	55	HDC 32B ADLU	1219800000
	without cover	38	HDC 32B ALU	1219500000



Base housing



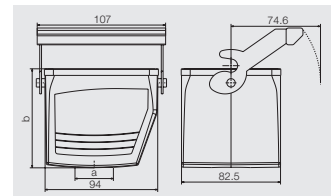
a	Version	Cover	b (mm)	Designation	Order No.
M32	with thread	with cover	96	HDC 32B SDLU 2M32G	1788490000
M32	with thread	without cover	79	HDC 32B SLU 2M32G	1788470000



Coupling hood



a	Version	Cover	b (mm)	Designation	Order No.
M32	with thread		83	HDC 32B KLU 1M32G	1788500000



ConCept module frame

Size 12

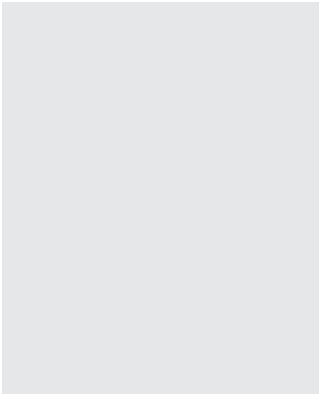


Frame



Frame	Designation	Order No.
Male	HDC-CR24-7S-2 GR	1758540000
Female	HDC-CR24-7B-2 GR	1758550000

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



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



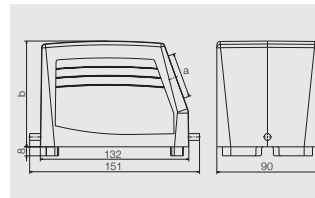
RockStar® ConCept modular system

Hood

Hood, Cable Entry sideways



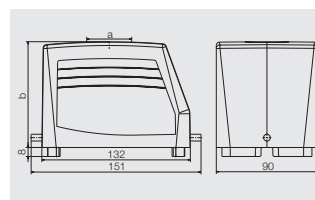
a	Version	Cover	b (mm)	Designation	Order No.
M32	with thread		94	HDC 48B TSLU 1M32G	1788320000
M40	with thread		94	HDC 48B TSLU 1M40G	1788310000
M50	with thread		94	HDC 48B TSLU 1M50G	1788300000



Hood, Cable Entry at top



a	Version	Cover	b (mm)	Designation	Order No.
M32	with thread		94	HDC 48B TOLU 1M32G	1788350000
M50	with thread		94	HDC 48B TOLU 1M50G	1788330000

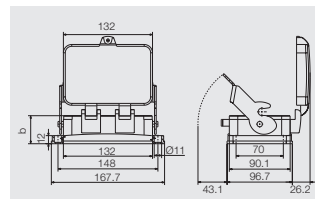


Base

Bulkhead housing



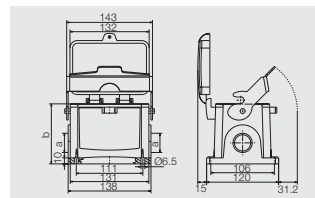
Version	Cover	b (mm)	Designation	Order No.
	with cover	62	HDC 48B ADLU	1222900000



Base housing

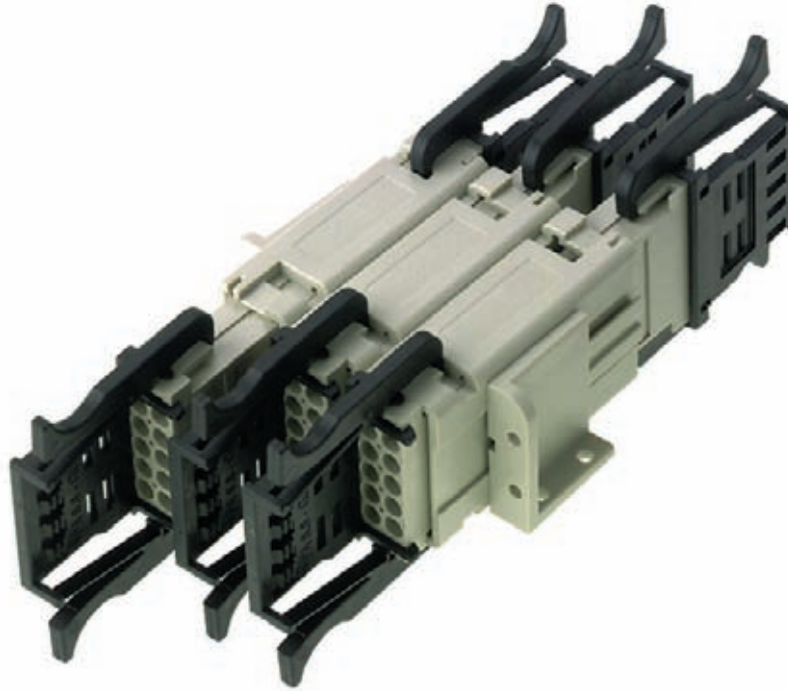


a	Version	Cover	b (mm)	Designation	Order No.
M32	with thread	with cover	120	HDC 48B SDLU 2M32G	1788390000
M32	with thread	without cover	100	HDC 48B SLU 2M32G	1788370000
M40	with thread	without cover	100	HDC 48B SLU 2M40G	1788360000



C

Coupling frame for ConCept modules



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

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

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

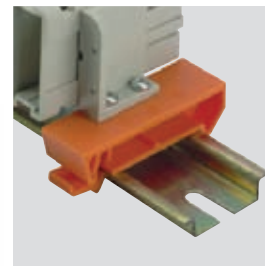
ModuFlex C

Coupling frame



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

Mounting bracket / mounting foot



Mounting bracket

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

Mounting foot

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

Technical data

C-CR

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

Ordering data

Type	Qty	Order No.
ModuFlex C-CR grau	10	1746060000

Technical data

C-MW

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

MOFU

	Mounting foot
Insulation	PA
Colour	orange
Temperature range	-40 ... +120°C
Flammability class to UL 94	V-2

Ordering data

Type	Qty	Order No.	
ModuFlex C-MW	Mounting bracket	10	1746070000
MOFU	Mounting foot	20	0495660000

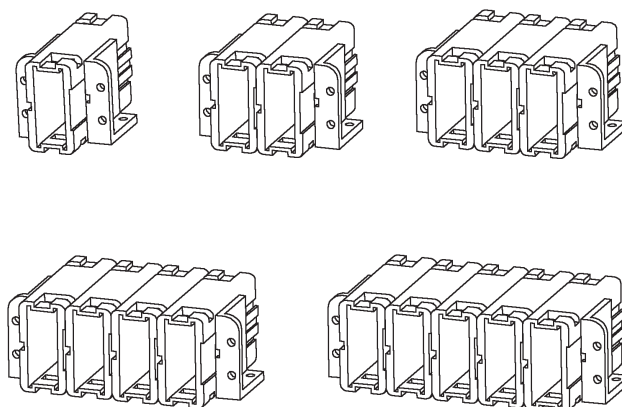
Accessories

Type	Qty	Order No.
<p>Crosshead screw for fastening the coupling to the mounting foot, to front and back panel and to a flat surface</p> <p>PTSC KB 30 x 6</p>	100	1766120000
<p>Spacer pin M3 x 27 and clamping screws M3 x 8 in set. For mounting the coupling to flat panels. 1 pack contains 80 screws and 40 spacer pins, separately packaged.</p> <p>ABST.BOLZM3X27+KLSC-KIT</p>	1	1766130000

Module extractor and strain relief tool



Coupling frame – sets



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

Technical data

C-MH/ZE

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

Ordering data

Type	Qty	Order No.
ModuFlex C-MH/ZE black	10	1752970000

Technical data

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

Ordering data

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

Accessories

Type	Qty	Order No.
Crosshead screw for fastening the coupling to the mounting foot, to front and back panel and to a flat surface PTSC KB 30 x 6	100	1766120000
Spacer pin M3 x 27 and clamping screws M3 x 8 in set. For mounting the coupling to flat panels. 1 pack contains 80 screws and 40 spacer pins, separately packaged. ABST.BOLZM3X27+KLSC-KIT	1	1766130000

