

**Han® K 3/0, K 3/2 / Han® HC Modular**

Page

Technical characteristics Han® K 3/0, Han® K 3/2 .....	<b>14.10</b>
Inserts Han® K 3/0, Han® K 3/2 .....	<b>14.11</b>
Han® 24 HPR special hoods/housings for Han® K 3/0, Han® K 3/2 .....	<b>14.12</b>
Technical characteristics Han® HC Modular 350 .....	<b>14.14</b>
Contacts Han® HC Modular 350 .....	<b>14.15</b>
Hoods/housings for working voltage: 2 000 V Han® HC Modular .....	<b>14.16</b>
Hoods/housings for working voltage: 4 000 V Han® HC Modular .....	<b>14.17</b>
Assembly details for Han® HC Modular 350 .....	<b>14.19</b>
Technical characteristics Han® HC Modular 650 .....	<b>14.20</b>
Contacts Han® HC Modular 650 .....	<b>14.21</b>
Hoods/housings for Han® HC Modular 650 .....	<b>14.21</b>
Assembly details for Han® HC Modular 650 .....	<b>14.22</b>
Han® 48 HPR .....	<b>14.23</b>

**Specifications**

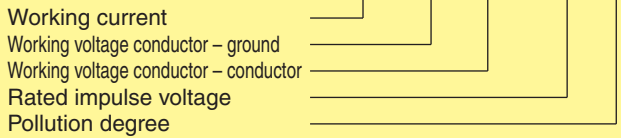
DIN VDE 0627  
DIN VDE 0110  
DIN EN 61 984

**Inserts**

Number of contacts 3, 3/2 + PE

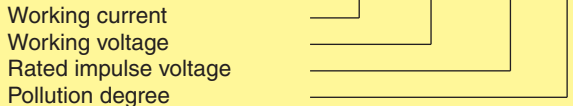
Electrical data  
acc. to DIN EN 61 984

Power area **200 A 1150/2000 V 8 kV 3**



- Pollution degree 2 also 200 A 2000 V 12 kV 2

Signal area **16 A 400 V 6 kV 3**



- Pollution degree 2 also 16 A 500 V 6 kV 2

Insulation resistance  $\geq 10^{10} \Omega$   
Material Polycarbonate  
Limiting temperatures - 40 °C / +125 °C  
Flammability acc. to UL 94 V 0  
Mechanical working life - Mating cycles  $\geq 500$

**Contacts**

Material copper alloy  
Surface silver  
Contact resistance  $\leq 0.2 \text{ m}\Omega$

Axial screw contact

- Wire gauge	mm <sup>2</sup>	35	50	70
- Tightening torque	Nm	8	9	10

Power contact

- Wire gauge<sup>1)</sup> 35 - 70 mm<sup>2</sup>
- AWG 2 - 2/0
- Tightening torque 8 - 10 Nm
- Hexagonal wrench SW 5, 09 99 000 0371, page 99.05
- Stripping length 22 mm

PE contact (only Han K 3/2)<sup>1)</sup>

- Wire gauge 16 - 35 mm<sup>2</sup>
- AWG 5 - 2
- Tightening torque 6 Nm
- Hexagonal wrench SW 4, 09 99 000 0370, page 99.05
- Stripping length 14 mm

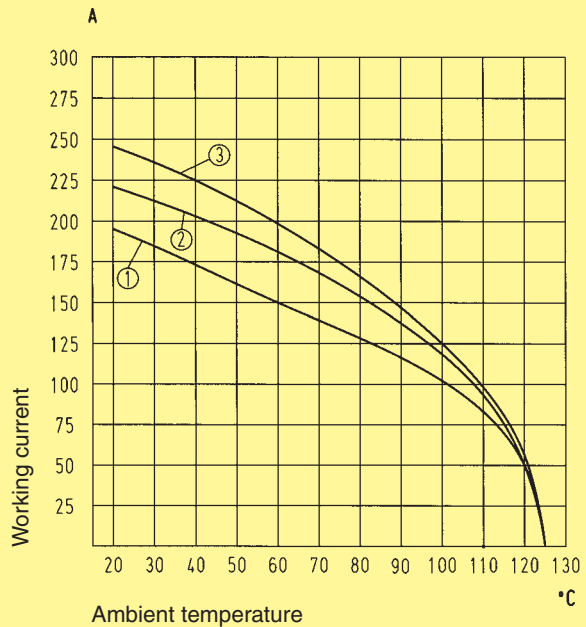
Signal contact (only Han K 3/2)

- Wire gauge 2,5 mm<sup>2</sup>
- AWG 14
- Tightening torque 0.5 Nm
- Stripping length 7 mm

**Current carrying capacity acc. to IEC 512**

The current carrying capacity is limited by maximum temperature of materials for inserts and contacts including terminals. The current capacity-curve is valid for continuous, not interrupted current-loaded contacts of connectors when simultaneous power on all contacts is given, without exceeding the maximum temperature.

Control and test procedures according to DIN IEC 512-3.



- ① Wire gauge: 35 mm<sup>2</sup>
- ② Wire gauge: 50 mm<sup>2</sup>
- ③ Wire gauge: 70 mm<sup>2</sup>

**Features**

- Only to be used with Han® 24 HPR special hoods and housings (see page 14.12)
- Only available with axial screw termination
- The vertical and angled versions offer solutions for almost all applications
- The ideal connector for transmission of high currents requiring little space

**Han® HPR hoods/housings**

**Technical characteristics**

Material	corrosion resistant aluminium alloy
Surface	Epoxy powder paint
- top coat	V2A
Locking elements	Screw
Kind of locking	NBR
Seal	- 40 °C / +125 °C
Limiting temperatures	Degree of protection acc. to DIN EN 60 529 for coupled connector IP 68

**Features**

- Epoxy powder paint finish
- EMC protection
- Corrosion resistant
- Pressure tight

Han HC Modular


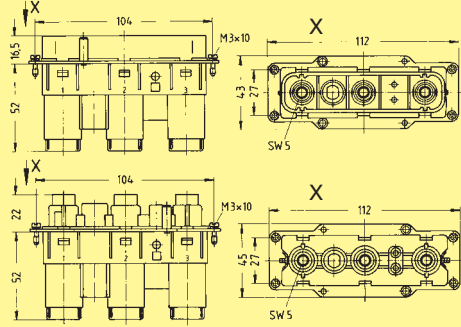

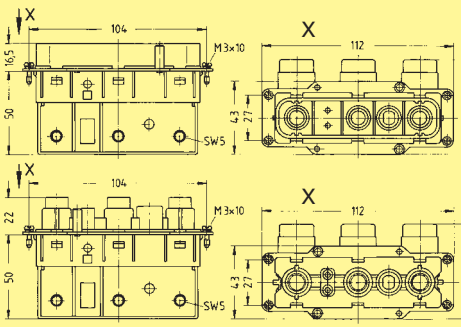

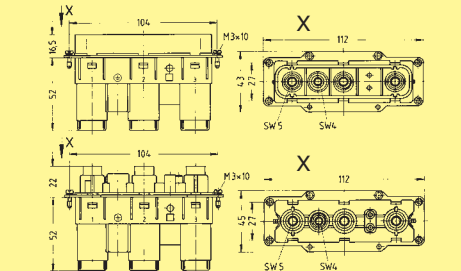

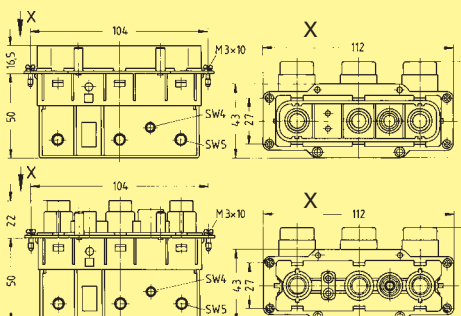
<sup>1)</sup> geometrical diameter

Number of contacts


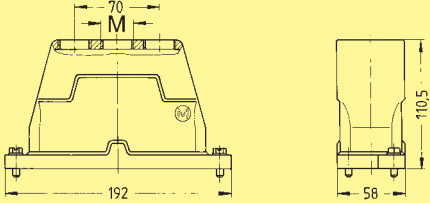

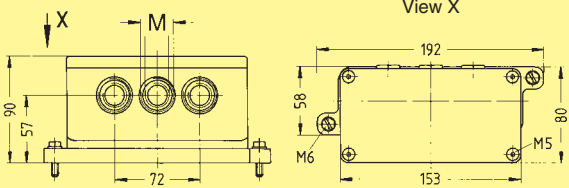

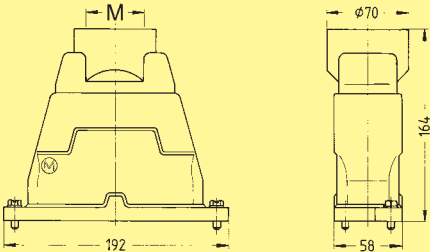

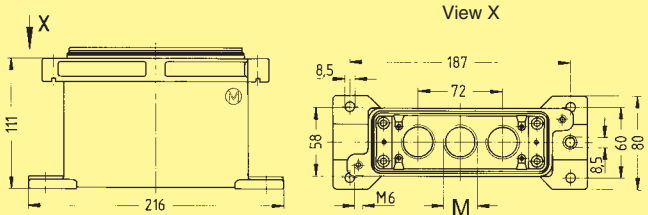

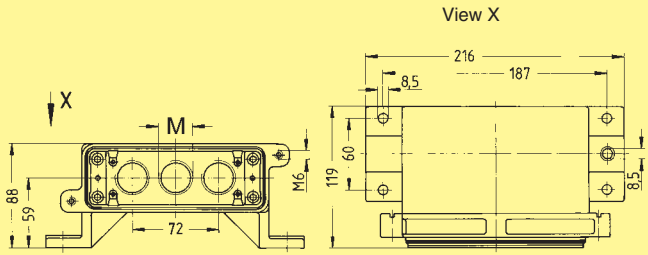
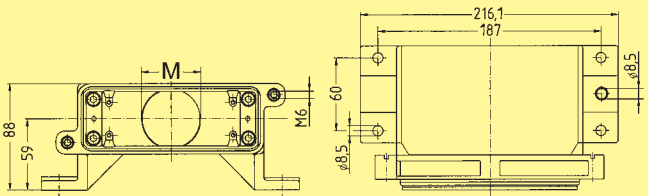

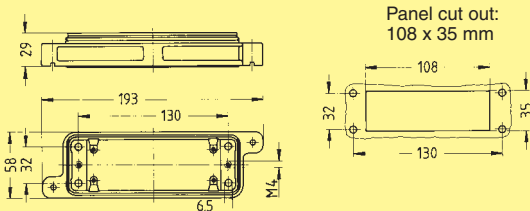
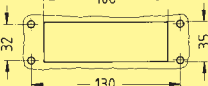
3/0 without   
 3/2 with 

Inserts



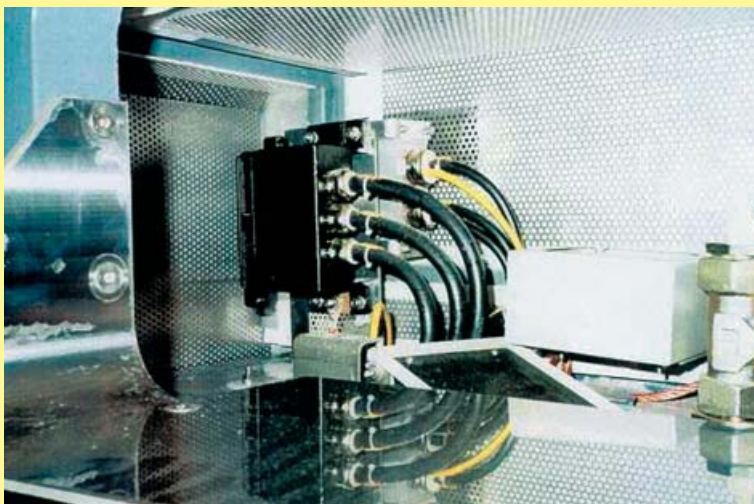
Identification	Serie	Male insert (M)	Female insert (F)	Drawing	Dimensions in mm
Axial screw terminal top-entry 	Han® K				
	3/0	<b>09 38 005 2621</b>	<b>09 38 005 2721</b>		
angled 	3/0	<b>09 38 005 2622</b>	<b>09 38 005 2722</b>		
				1) Distance for contact max. 21 mm	
Axial screw terminal top-entry 	Han® K				
	3/2	<b>09 38 005 2601</b>	<b>09 38 005 2701</b>		
angled 	3/2	<b>09 38 005 2602</b>	<b>09 38 005 2702</b>		
				1) Distance for contact max. 21 mm	

Han HC  
Modular

Identification	Part No. Screw locking	Serie M	Drawing	Dimensions in mm
<b>Hood</b> top-entry 	<b>19 40 024 0461</b>	Han® K 3/0  3 x 25		
angled entry 	19 40 024 0631	3 x 25		
top-entry for M 63 	<b>19 40 024 0420</b>	Han® K 3/2  63		
<b>Housing</b> surface mounting straight version 	<b>19 40 024 1231</b>	Han® K 3/0  3 x 25		
horizontal version 	19 40 024 0931	3 x 25		
	19 40 024 0914	50		
<b>Housing</b> bulkhead mounting 	<b>09 40 024 0311</b>	Han® K 3/0 + 3/2  24		Panel cut out: 108 x 35 mm 

Stock items in bold type

Regional Express Railcars  
of the series ET 424-426  
Bombardier Transportation,  
Siemens AG, ALSTOM



Motor connection of the traction bogie  
with Han® K 3/0 and Han® HPR  
hood/housing  
Bombardier Transportation,  
Siemens AG, ALSTOM



## Modular High Current Connector System

### Technical characteristics

**Specification**  
DIN VDE 0627  
DIN VDE 0110  
DIN EN 61 984

**Inserts**  
Number of contacts 1, 2, 3 or 3 + PE

Electrical data acc. to DIN EN 61 984

without adapter **350 A 2000 V 12 kV 3**

Working current  
Working voltage  
Rated impulse voltage  
Pollution degree

with adapter **350 A 4000 V 18 kV 3**

Working current  
Working voltage  
Rated impulse voltage  
Pollution degree

Insulation resistance  $\geq 10^{10} \Omega$   
Material Polyamide  
Limiting temperatures -40 °C / +125 °C  
Flammability acc. to UL 94 V 0  
Mechanical working life - Mating cycles  $\geq 500$

### Contacts

Material copper alloy  
Surface silver  
Contact resistance  $\leq 0.2 \text{ m}\Omega$   
Axial screw terminal  
- Wire gauge<sup>1)</sup> 35 - 70 mm<sup>2</sup> or 95 - 120 mm<sup>2</sup>  
- AWG 1 - 00  
- Hexagonal wrench 000 - 0000  
SW 5, 09 99 000 0371, page 99.05  
- Tightening torque

mm <sup>2</sup>	35	50	70	95	120
Nm	8	10	12	14	16

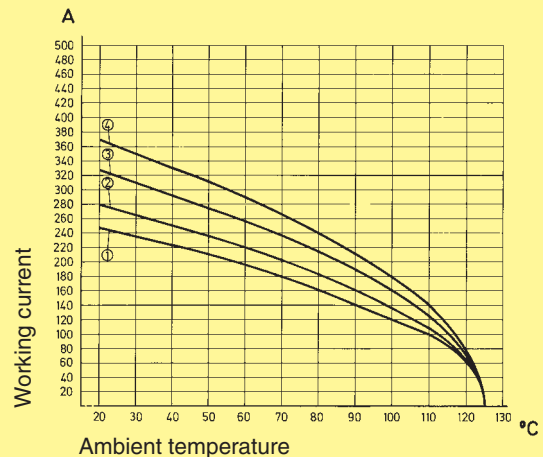
Stripping length 19<sup>+1</sup> mm  
Max. cable diameter 19.5 mm  
Screw terminal  
- Thread M 10  
- Hexagonal wrench SW 17  
- Tightening torque 14 Nm

**Frame**  
Tightening torque of the fixing screws 0.5 Nm  
Tightening torque of the cross-tying screws on the frame for 4 poles 1.5 Nm

### Current carrying capacity acc. to IEC 512

The current carrying capacity is limited by maximum temperature of materials for inserts and contacts including terminals. The current capacity-curve is valid for continuous, not interrupted current-loaded contacts of connectors when simultaneous power on all contacts is given, without exceeding the maximum temperature.

Control and test procedures according to DIN IEC 512-3.



- ① Wire gauge: 50 mm<sup>2</sup>
- ② Wire gauge: 70 mm<sup>2</sup>
- ③ Wire gauge: 95 mm<sup>2</sup>
- ④ Wire gauge: 120 mm<sup>2</sup>

three contacts in HPR size 24


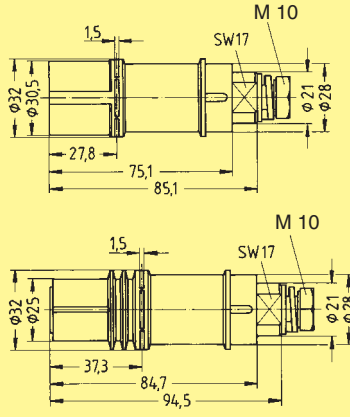

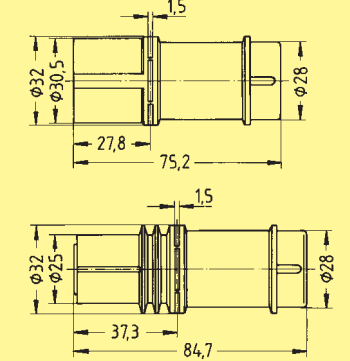

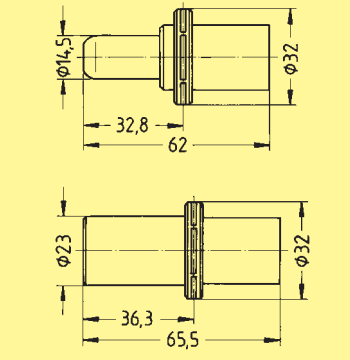


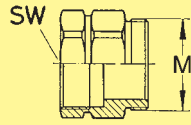
### Han® HPR Hoods/Housings

Material corrosion resistant aluminium die-cast  
Surface powder paint RAL 9005  
- Top coat  
Locking elements V2A steel  
Kind of locking screw  
Seal NBR  
Limiting temperatures -40 °C / +125 °C  
Degree of protection acc. to DIN 40 050 for coupled connector IP 68

### Han® M Hoods/Housings

Material corrosion resistant aluminium die-cast  
Surface chromated  
- Top coat powder paint RAL 9005  
Locking elements V2A steel  
Seal FPM  
Limiting temperatures -40 °C / +125 °C  
Degree of protection acc. to DIN 40 050 for coupled connector IP 65

<sup>1)</sup> geometrical diameter

Contacts	Part No.		Wire gauge	Drawing	Dimensions in mm
	Male contact (M)	Female contact (F)			
<b>Straight version</b> with screw terminal only for housing bulkhead mounting 	<b>09 11 001 2655</b>	09 11 001 2755	for cable lug up to max. 120 mm <sup>2</sup>		
with axial screw terminal 	<b>09 11 001 2651</b> 09 11 001 2652	<b>09 11 001 2751</b> 09 11 001 2752	35 - 70 mm <sup>2</sup> 95 - 120 mm <sup>2</sup>		
<b>PE contact</b> with axial screw terminal 	09 11 000 6156	09 11 000 6256	35 - 70 mm <sup>2</sup>		
<b>Hexagonal wrench                      adapter                      (SW 5)</b> 	<b>09 99 000 0371</b>				
<b>Hexagonal                      adapter</b>	Part No.	M	SW	Drawing	Dimensions in mm
Metal version with O-Ring 	<b>19 36 000 5134</b> <b>19 36 000 5135</b>	25 32	30 40		

Han HC  
Modular



Frame	Part No.	Hoods/Housings top-entry	M	Part No.								
<p>2 poles for hood</p>	<b>09 11 000 9952</b>	<p>Hood Han<sup>®</sup> HPR 16 B</p>	<b>2 x 25</b>	<b>19 40 016 0431</b>								
<p>2 poles for housing</p>	<b>09 11 000 9952</b>	<p>Housing bulkhead mounting Han<sup>®</sup> HPR 16 B</p> <table border="1"> <thead> <tr> <th>Size</th> <th>a</th> <th>b</th> <th>c</th> </tr> </thead> <tbody> <tr> <td>16 B</td> <td>103</td> <td>166</td> <td>82</td> </tr> </tbody> </table>	Size	a	b	c	16 B	103	166	82	—	<b>09 40 016 0311</b>
Size	a	b	c									
16 B	103	166	82									
<p>2 poles for hood</p>	<b>09 11 000 9956</b>	<p>Hood Han<sup>®</sup> HPR 24 B</p>	<b>2 x 32</b>	<b>19 40 024 0432</b>								
<p>2 poles for housing</p>	<b>09 11 000 9956</b>	<p>Housing bulkhead mounting Han<sup>®</sup> HPR 24 B</p> <p>Panel cut out: 108 x 35 mm</p>	—	<b>09 40 024 0311</b>								

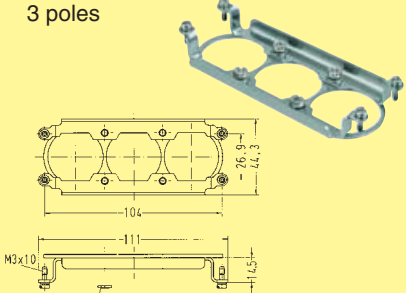
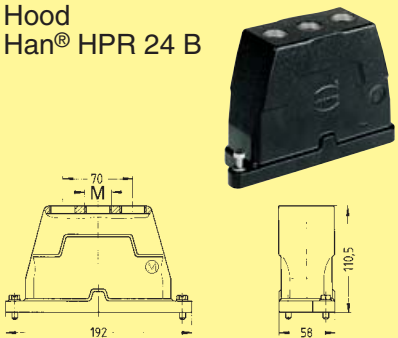
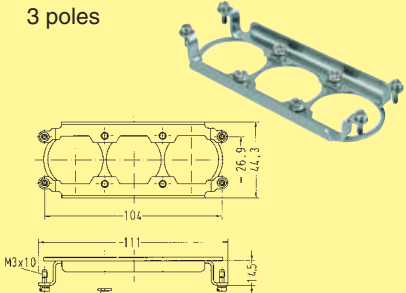
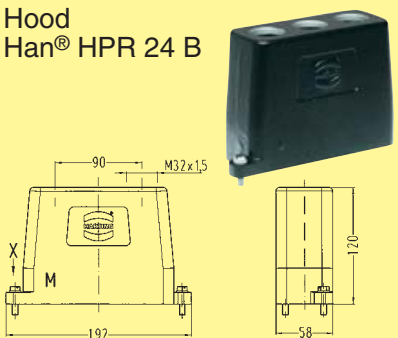
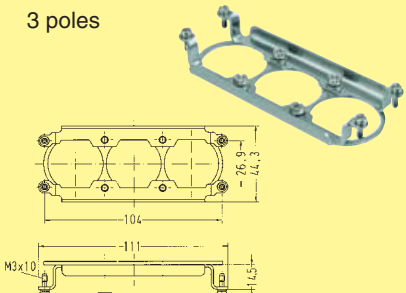
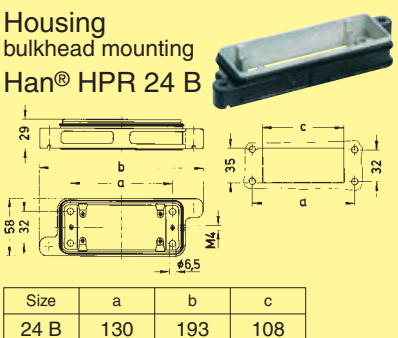
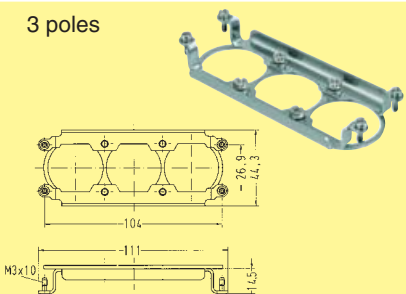
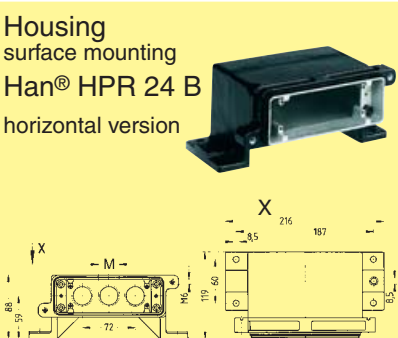
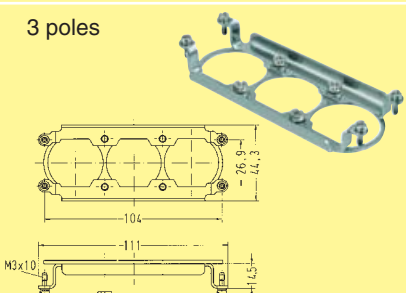
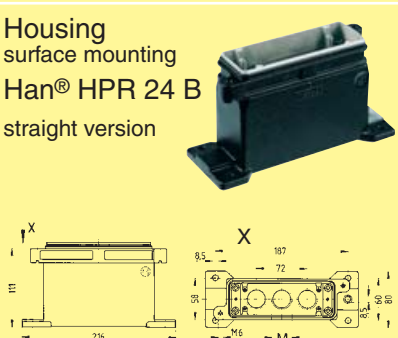
Han HC  
Modular

\* A working voltage of 4 000 V is only possible to realize by using a hexagonal adapter and the HARTING cable gland, in order to realize the clearance and creepage distances according to DIN VDE 0110.

Stock items in bold type

Han HC Modular

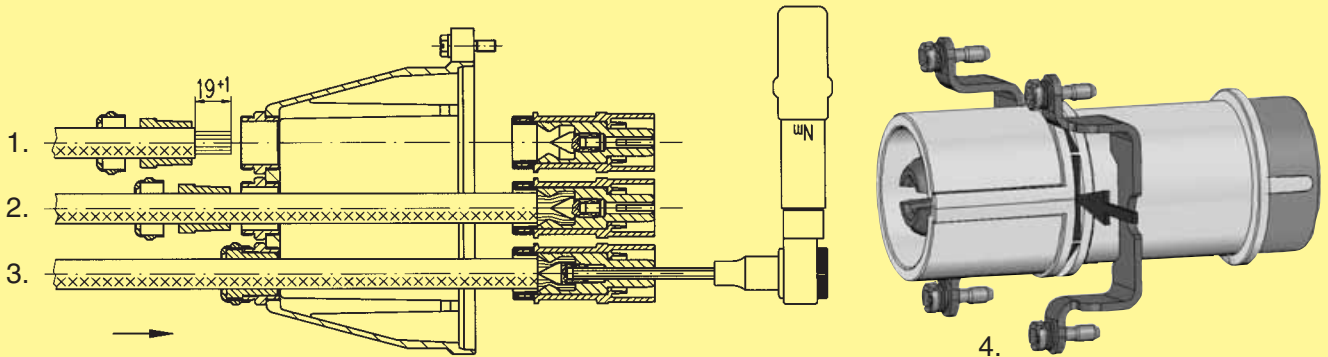
14  
18

Frame	Part No.	Hoods/Housings top-entry	M	Part No.								
<p>3 poles</p>  <p>enclosed separately</p>	<b>09 11 000 9963</b>	<p>Hood Han® HPR 24 B</p> 	<b>3 x 25</b>	<b>19 40 024 0461</b>								
<p>3 poles</p>  <p>enclosed separately</p>	<b>09 11 000 9963</b>	<p>Hood Han® HPR 24 B</p> 	<b>3 x 32</b>	<b>19 40 024 0467</b>								
<p>3 poles</p>  <p>enclosed separately</p>	<b>09 11 000 9963</b>	<p>Housing bulkhead mounting Han® HPR 24 B</p>  <table border="1" data-bbox="750 1310 1053 1366"> <thead> <tr> <th>Size</th> <th>a</th> <th>b</th> <th>c</th> </tr> </thead> <tbody> <tr> <td>24 B</td> <td>130</td> <td>193</td> <td>108</td> </tr> </tbody> </table>	Size	a	b	c	24 B	130	193	108	—	<b>09 40 024 0311</b>
Size	a	b	c									
24 B	130	193	108									
<p>3 poles</p>  <p>enclosed separately</p>	<b>09 11 000 9963</b>	<p>Housing surface mounting Han® HPR 24 B horizontal version</p> 	<b>3 x 25</b>	<b>19 40 024 0931</b>								
<p>3 poles</p>  <p>enclosed separately</p>	<b>09 11 000 9963</b>	<p>Housing surface mounting Han® HPR 24 B straight version</p> 	<b>3 x 25</b>	<b>19 40 024 1231</b>								

\* A working voltage of 4 000 V is only possible to realize by using a hexagonal adapter and the HARTING cable gland, in order to realize the clearance and creepage distances according to DIN VDE 0110.

Stock items in bold type

Assembly Details

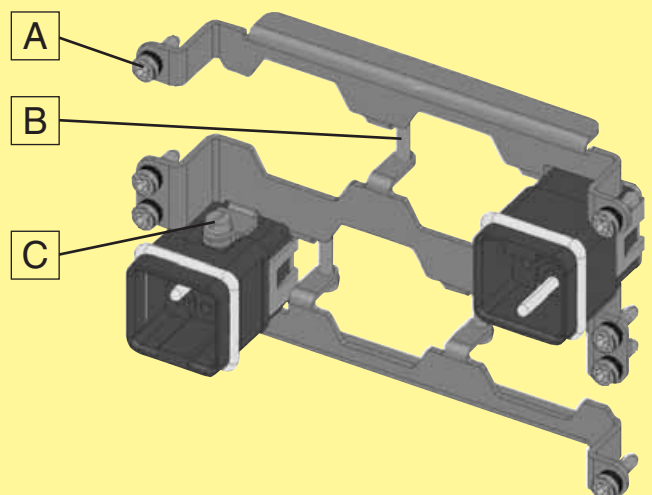


1. Strip cable to 19+1 mm.
2. Push conductors through the cable gland and the housing. Push the stripped end of the conductor into the connection entry of the module until the insulation touches the contact.
3. To tighten the locking screw, a hexagonal wrench size 5 is needed. Insert the hexagonal wrench on the mating side of the contact. At the same time, push the conductor over the axial screw. The locking screw has to be tightened with the recommended tightening torque that is determined by the conductor's cross section (6 - 14 Nm).
4. Once all modules are terminated, they are mounted into the housing by means of two metal frames (tightening torque of the fixing screws = 0.5 Nm). The modules have a hexagonal around it which mates with the metal frame. The heads of the fixing screws have to face the mating direction of the module. Due to the hexagonal slot, each module can be used in 6 different positions (turning every 60 degrees) to create a coding system.

Therefore it is important that the corresponding modules are assembled in the correct position or mating is not possible.

5. After the assembly of the modules in the housing, the tightening torque of the locking screw can be checked and corrected if necessary.
6. After final assembly of the contacts, the user should ensure that the cable is adequately strain relieved to protect the contact from radial stress.
7. During the assembly of the frame for 4 poles the following tightening torques have to be taken into consideration:

- A = 0.5 Nm
- B = 1.5 Nm
- C = 0.25 Nm





Modular High Current Connector System

Technical characteristics

Specifications	DIN VDE 0627 DIN VDE 0110 DIN EN 61 984
----------------	---

Contacts	
Material	copper alloy
Surface	silver
Contact resistance	≤ 0.2 mΩ
Axial screw contact	
- Wire gauge <sup>1)</sup>	70 - 120 mm <sup>2</sup> oder 150 - 185 mm <sup>2</sup>
- MCM	138 - 236 oder 300 - 350

Inserts	
Number of contacts	1, 2
Electrical data acc. to DIN EN 61 984	<b>650 A 4000 V 18 kV 3</b>
Working current	
Working voltage	
Rated impulse voltage	
Pollution degree	
Insulation resistance	≥ 10 <sup>10</sup> Ω
Material	Polyamide
Limiting temperatures	- 40 °C / +125 °C
Flammability acc. to UL 94	V 0
Mechanical working life	
- Mating cycles	≥ 500

Stripping length	
------------------	--

Axial screw contact													
- Wire gauge													
- Tightening torque													
	<table border="1"> <tr> <td>mm<sup>2</sup></td> <td>70</td> <td>95</td> <td>120</td> <td>150</td> <td>185</td> </tr> <tr> <td>Nm</td> <td>12</td> <td>14</td> <td>16</td> <td>17</td> <td>18</td> </tr> </table>	mm <sup>2</sup>	70	95	120	150	185	Nm	12	14	16	17	18
mm <sup>2</sup>	70	95	120	150	185								
Nm	12	14	16	17	18								
	min. length of wrench: 60 mm												

Hexagonal wrench	
Adapter (SW8)	09 99 000 0372 page 99.05

Screw contact	
- Thread M 12	
- 16 - 18 Nm	
<b>Please ensure to hold up the contact with a wrench size 24 to apply the tightening torque</b>	

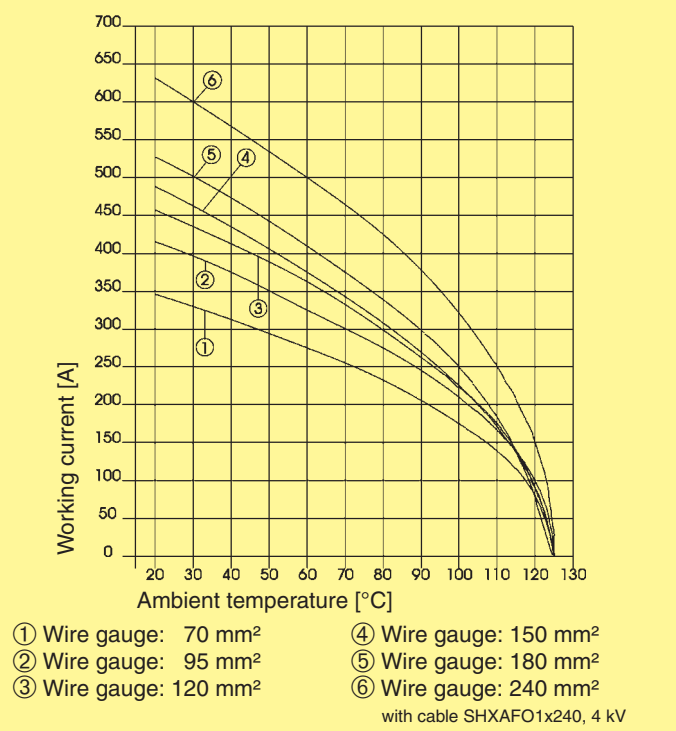
Frame	
Material	V2A
Tightening torque of the locking screws	0.5 Nm

Han® HPR hoods/housings	
Material	Corrosion resistant aluminium die-cast
Surface	
- top coat	Epoxy powder paint RAL 9005
Locking elements	V2A
Kind of locking	screw
Sealing	NBR
Limiting temperatures	- 40 °C / +125 °C
Degree of protection acc. to DIN 40 050 for coupled connector	IP 68

**Current carrying capacity acc. to IEC 512**

The current carrying capacity is limited by maximum temperature of materials for inserts and contacts including terminals. The current capacity-curve is valid for continuous, not interrupted current-loaded contacts of connectors when simultaneous power on all contacts is given, without exceeding the maximum temperature.

Control and test procedures according to DIN IEC 512-3.



Han HC Modular

14  
20

<sup>1)</sup> geometrical diameter

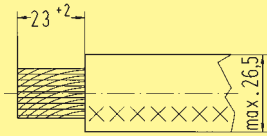
Contacts	Part No.		Wire gauge	Male contact	
	Male contact (M)	Female contact (F)		Male contact	Female contact
Straight version					
	with screw terminal*	09 11 001 2675	09 11 001 2775	70 - 240 mm <sup>2</sup>	
with axial screw terminal					
		09 11 001 2671 09 11 001 2672	09 11 001 2771 09 11 001 2772	70 - 120 mm <sup>2</sup> 150 - 185 mm <sup>2</sup>	

Frame	Part No.	Hoods/Housings top-entry	M	Part No.
<p>1 pole for hood</p>	09 11 000 9971	<p>Hood Han® HPR 6 B</p>	40	<b>19 40 006 0418</b>
<p>1 pole for housing</p>	09 11 000 9971	<p>Housing bulkhead mounting Han® HPR 6 B</p>	—	09 40 006 0314
<p>2 poles for hood</p>	09 11 000 9972	<p>Hood Han® HPR 24 B</p>	40	<b>19 40 024 0438</b>
<p>2 poles for housing</p>	09 11 000 9972	<p>Housing bulkhead mounting Han® HPR 24 B</p>	—	09 40 024 0311

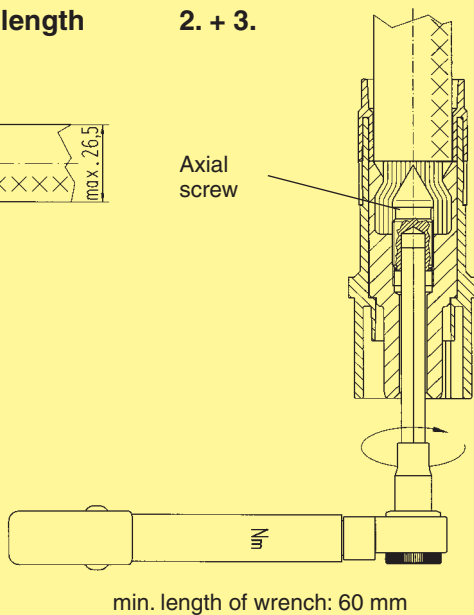
\* only for bulkhead mounting housings

Assembly details

1. Stripping length



2. + 3.

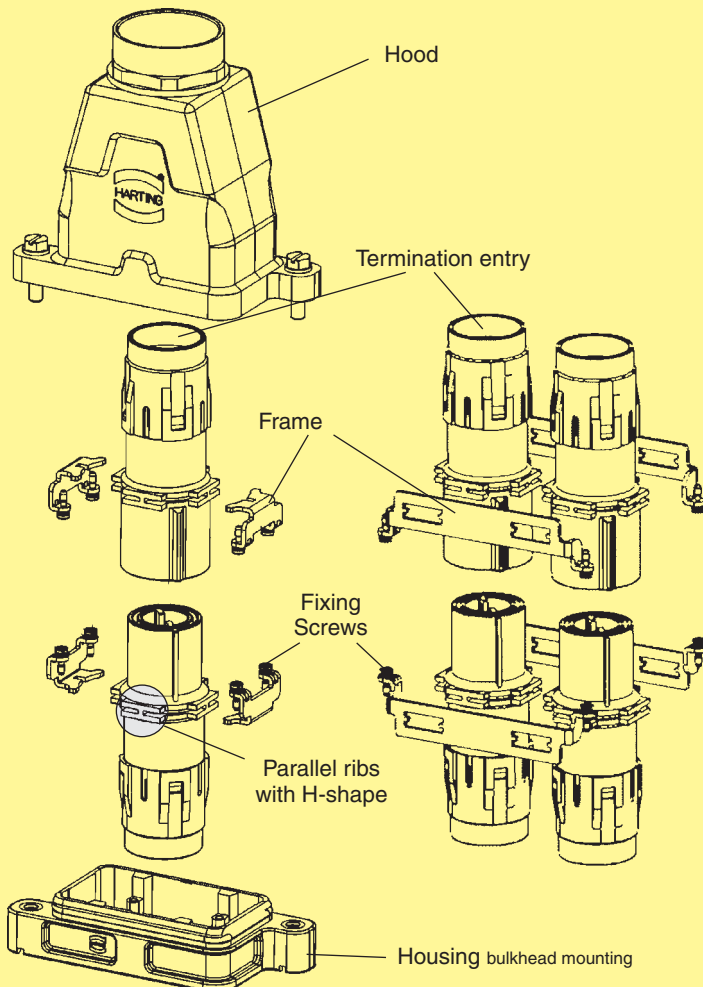


1. Strip cable to  $23^{+2}$  mm.

2. Push conductor through the cable gland and the housing. Push the stripped end of the conductor into the termination entry of the module until the insulation touches the contact.

3. To tighten the axial screw, a hexagonal wrench size 8 is needed. Insert the hexagonal wrench on the mating side of the contact. At the same time, push the conductor over the axial screw. The locking screw has to be tightened with the recommended tightening torque that is determined by the conductor's cross section.

4. + 5.



4. Once the modules are terminated, they are mounted into the housing by using two metal frames (tightening torque of the fixing screws = 0.5 Nm). The modules have 4 pegs formed by 2 parallel ribs (each peg shapes like a "H"). Each rib takes 1 pole frame, where the lateral link has to go into the relief of the frame.

The 2 pole frames have 2 cutouts on the wall which get fitted to the "H"-shaped pegs (see figure).

The heads of the screws have to face the mating direction of the module. Coding can be established by rotating the contact by 90 degrees. Therefore it is important that the corresponding modules are assembled in the correct position otherwise mating is not possible.

5. After assembling the modules in the housing, the tightening torque of the locking screw can be checked and corrected if necessary.

6. After final assembly of the contacts, the user should ensure that the cable is adequately strain relieved to protect the contact from radial stress.



## Technical characteristics

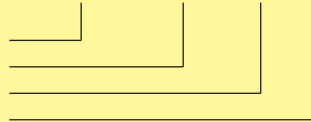
### Inserts

Number of contacts i. e. 4, 5, 6, 10 depending on the frame

Electrical data acc. to DIN EN 61 984

350/650 A 4000 V 18 kV 3

Working current  
Working voltage  
Rated impulse voltage  
Pollution degree

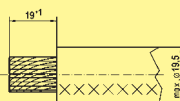


Insulation resistance  $\geq 10^{10} \Omega$   
Material Polyamide  
Contact resistance  $\leq 0,2 \text{ m}\Omega$   
Limiting temperatures  $-40 \text{ }^\circ\text{C} / +125 \text{ }^\circ\text{C}$   
Flammability acc. to UL 94 V 0  
Mechanical working life  
- Mating cycles  $\geq 500$

### Contacts HC 350

Material copper alloy  
Surface silver  
Contact resistance  $\leq 0.2 \text{ m}\Omega$   
Axial screw termination  
- Wire gauge<sup>1)</sup> 35 - 70 mm<sup>2</sup> or 95 - 120 mm<sup>2</sup>  
- AWG 1 - 00 or 000 - 0000

Stripping length



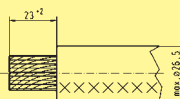
- Wire gauge  
- Tightening torque

mm <sup>2</sup>	35	50	70	95	120
Nm	8	10	12	14	16

### Contacts HC 650

Material copper alloy  
Surface silver  
Contact resistance  $\leq 0.2 \text{ m}\Omega$   
Axial screw termination  
- Wire gauge<sup>1)</sup> 70 - 120 mm<sup>2</sup> or 150 - 185 mm<sup>2</sup>  
- MCM 138 - 236 or 300 - 350

Stripping length



- Wire gauge  
- Tightening torque

mm <sup>2</sup>	70	95	120	150	185
Nm	12	14	16	17	18

## Features

- ❑ Well proven Han® HPR design
- ❑ Corrosion resistant alloy
- ❑ Good EMC features
- ❑ Degree of protection IP 68
- ❑ Easy assembly
- ❑ Secure termination, easy to control
- ❑ Vibration resistant acc. to DIN EN 61 373
- ❑ Ideal motor / drive connector for the transportation sector


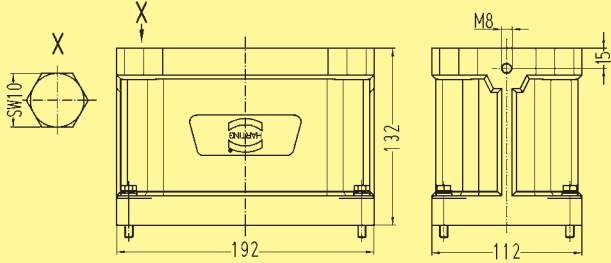

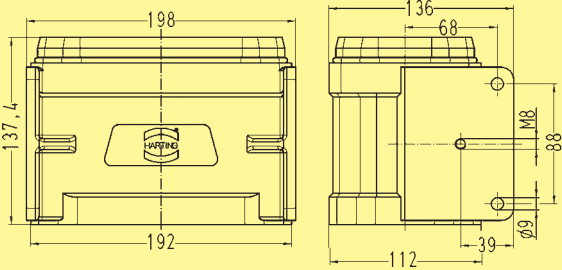

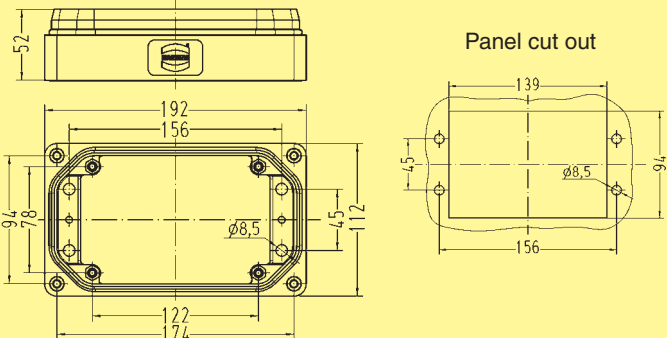

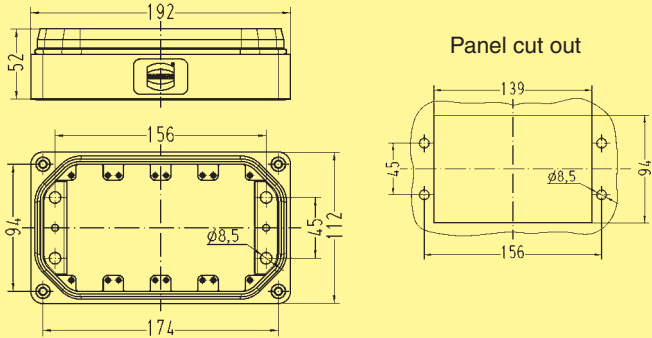
### Frame


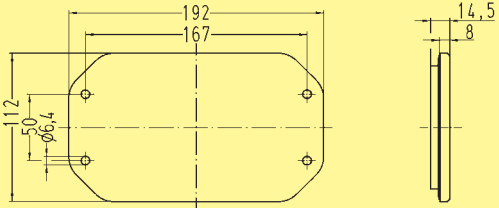

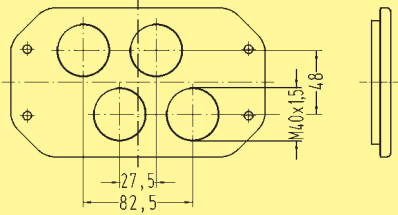

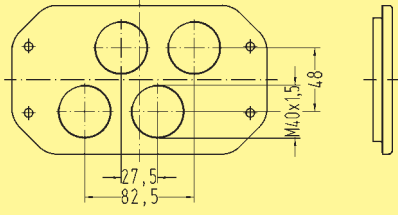

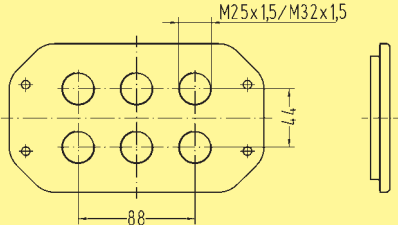

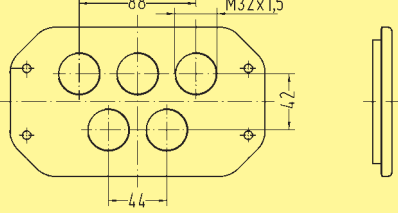

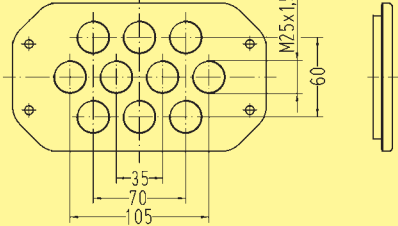
Material V2A  
Tightening torque of the locking screws 2 Nm

### Han® HPR hoods/housings

Material Corrosion resistant aluminium die-cast  
Surface Epoxy powder paint RAL 9005  
Locking elements V2A  
Tightening torque 4 Nm  
Sealing NBR  
Limiting temperatures  $-40 \text{ }^\circ\text{C} / +125 \text{ }^\circ\text{C}$   
Degree of protection acc. to DIN 60 529 for coupled connector IP 68

<sup>1)</sup> geometrical diameter

Identification	Part No.	Drawing	Dimensions in mm
<p>Hood</p> 	<p><b>09 40 048 0451</b></p>		
<p>Housing surface mounting</p> 	<p><b>09 40 048 0951</b></p>		
<p>Housing bulkhead mounting</p> <p>Han HC Modular</p> 	<p><b>09 40 048 0311</b></p>		
<p>Housing bulkhead mounting for 4 standard inserts size 16 B</p> 	<p><b>09 40 048 0331</b></p>		

Identification	Part No.	Drawing	Dimensions in mm
<p>Cover* without cable entry</p> 	<b>09 40 048 9801</b>		
<p>Cover* 4 x M40 for male inserts</p> 	<b>19 40 048 9801</b>		
<p>Cover* 4 x M40 for female inserts</p> 	<b>19 40 048 9901</b>		
<p>Cover* 6 x M25 6 x M32</p> 	<b>19 40 048 9820</b> <b>19 40 048 9822</b>		
<p>Cover* 5 x M32</p> 	<b>19 40 048 9812</b>		
<p>Cover* 10 x M25</p> 	<b>19 40 048 9860</b>		

Han HC  
Modular

\* Included in delivery range: 4 distance pieces  
4 screws M6  
4 washers

Stock items in bold type

Identification	Part No.		Depiction
	Male (M)	Female (F)	
<p>Frame for 4 standard inserts size 16 B</p> <p>Suitable for hoods and surface mounted housings only</p>	09 40 048 9912	09 40 048 9912	
<p>Frame for 4 x HC 350 contacts + 2 x Han® Q 5/0</p>	<b>09 40 048 9810</b>	<b>09 40 048 9910</b>	
<p>Frame for 4 x HC 650 contacts + 2 x Han® Q 5/0</p>	<b>09 40 048 9811</b>	<b>09 40 048 9911</b>	
<p>Frame for 6 x HC 350 contacts</p>	<b>09 40 048 9806</b>	<b>09 40 048 9906</b>	
<p>Frame for 4 x HC 350 contacts + PE</p>	<b>09 40 048 9809</b>	<b>09 40 048 9909</b>	
<p>Frame for 10 x HC 350 contacts</p>	<b>09 40 048 9860</b>	<b>09 40 048 9960</b>	

Han HC  
Modular