

**Contents**

Page

Technical characteristics Han Hv E® .....	<b>04.02</b>
Technical characteristics Han® Hv ES .....	<b>04.03</b>
Han® 3 Hv E/ES .....	<b>04.04</b>
Hoods/Housings for Han® 3 Hv E/ES .....	<b>04.05</b>
Han® 6 Hv E/ES .....	<b>04.06</b>
Hoods/Housings for Han® 6 Hv E/ES .....	<b>04.07</b>
Han® 10 Hv E/ES .....	<b>04.08</b>
Hoods/Housings for Han® 10 Hv E/ES .....	<b>04.09</b>
Han® 16 Hv E .....	<b>04.10</b>
Hoods/Housings for Han® 16 Hv E .....	<b>04.11</b>
Han® 12 Hv E/ES .....	<b>04.12</b>
Han® 20 Hv E/ES .....	<b>04.14</b>
Han® 32 Hv E .....	<b>04.15</b>
Contacts Han Hv E® .....	<b>04.16</b>
Difference: Han Hv E® to Standard Hoods/Housings .....	<b>04.17</b>

Han  
Hv E

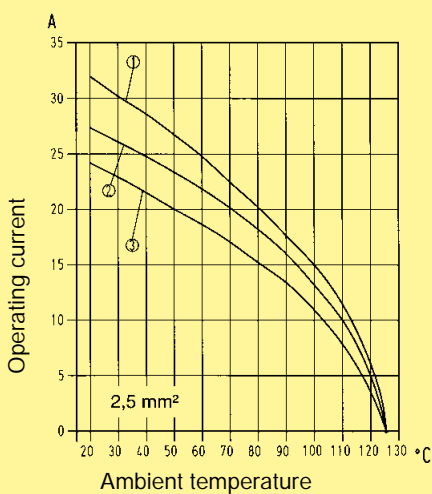
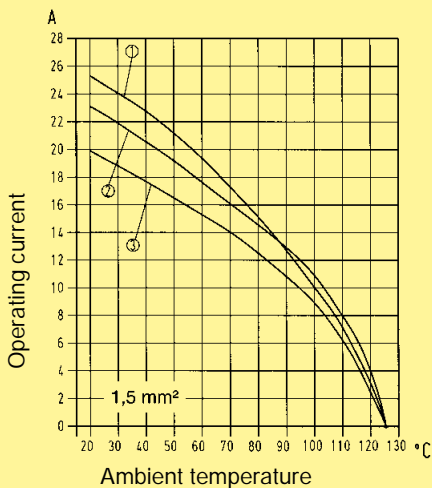
Features

- Designed for application up to 830 V
- Available in several termination techniques
- No special tools required
- Han Hv E® screw requires special Han Hv E® housings

Current carrying capacity

The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the connector evenly, without exceeding the allowed maximum temperature.

Measuring and testing techniques according to DIN EN 60 512-5-2



- ① Han® 3 Hv E
- ② Han® 6 Hv E
- ③ Han® 10 Hv E / Han® 16 Hv E

Specifications

DIN EN 61 984  
DIN EN 60 664-1

Approvals



Inserts

Number of contacts 3, 6, 10, 12 (2x6), 16, 20 (2x10), 32 (2x16) + PE  
+ 2 additional contacts for safe high voltage connections

Electrical data acc. to DIN EN 61 984

Han Hv E® 3, 6, 10, 12, 20 + PE **16 A 830 V 8 kV 3**  
 Rated current 16 A  
 Rated voltage 830 V  
 Rated impulse voltage 8 kV  
 Pollution degree 3  
 Pollution degree 2 also 16 A 1000 V 8 kV 2  
 or 16 A 720/1250 V 8 kV 2  
 Relay contacts 16 A 500 V 6 kV 3

Han Hv E® 16, 32 + PE **16 A 400/690 V 6 kV 3**  
 Rated current 16 A  
 Rated voltage conductor - ground 400 V  
 Rated voltage conductor - conductor 690 V  
 Rated impulse voltage 6 kV  
 Pollution degree 3  
 or 16 A 500 V 6 kV 3

Rated voltage acc. to UL/CSA 600 V  
 Relay contacts 250 V

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  
 - hard-silver plated 3  $\mu\text{m}$  Ag  
 Contact resistance  $\leq 1 \text{ m}\Omega$   
 Crimp terminal  
 - Wire gauge<sup>1)</sup> 0.5 ... 4 mm<sup>2</sup>  
 - AWG 20 ... 12  
 Screw terminal  
 - Wire gauge<sup>1)</sup> 2.5 mm<sup>2</sup>  
 - AWG 14  
 - Tightening/test torque 0.5 Nm

Hoods/Housings

Technical characteristics see page 04.03

Accessories

Crimping tools chapter 99  
 Cable clamps chapter 95  
 Coding of hoods/housings chapter 95  
 Label acc. to CSA-approval chapter 95  
 Han-Snap® chapter 11

Han Hv E

<sup>1)</sup> geometric wire gauge

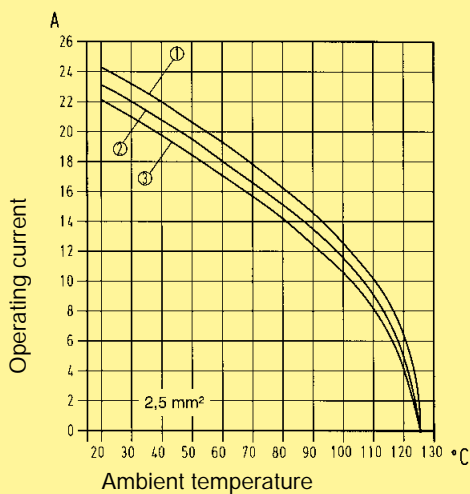
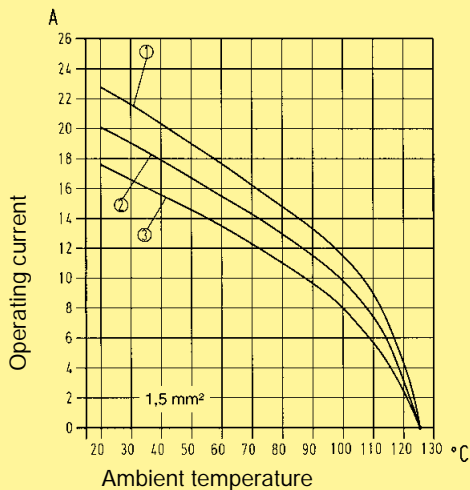
Features

- Designed for application up to 830 V
- Reliable cage clamp termination
- No special tools required
- Vibration proofed
- Not plug compatible to Han Hv E® screw/crimp terminal

Current carrying capacity

The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the connector evenly, without exceeding the allowed maximum temperature.

Measuring and testing techniques according to DIN EN 60 512-5



- ① Han® 3 Hv ES
- ② Han® 6 Hv ES
- ③ Han® 10 Hv ES

Specifications

DIN EN 61 984  
DIN EN 60 664-1

Approvals



Inserts

Number of contacts 3, 6, 10, 12 (2x6), 20 (2x10)  
+ PE  
+ 2 additional contacts for safe high voltage connections

Electrical data acc. to DIN EN 61 984

**16 A 830 V 8 kV 3**

Rated current 16 A  
Rated voltage 830 V  
Rated impulse voltage 8 kV  
Pollution degree 3  
Pollution degree 2 also 16 A 1000 V 8 kV 2  
or 16 A 720/1250 V 8 kV 2  
Relay contacts 16 A 500 V 6 kV 3

Rated voltage acc. to UL/CSA  
Relay contacts

600 V  
250 V

Insulation resistance  $\geq 10^{10} \Omega$   
Material polycarbonate  
Limiting temperatures  $-40^\circ\text{C} \dots +125^\circ\text{C}$   
Flammability acc. to UL 94 V 0  
Mechanical working life - mating cycles  $\geq 500$

Contacts

Material copper alloy  
Surface - hard-silver plated 3  $\mu\text{m}$  Ag  
Contact resistance  $\leq 3 \text{ m}\Omega$   
Cage clamp terminal - Wire gauge<sup>1)</sup> 0.14 ... 2.5 mm<sup>2</sup>  
- AWG 26 ... 14

Hoods/Housings

Material aluminium die-cast  
Surface powder-coated RAL 7037  
Locking element Han-Easy Lock®  
Hoods/Housings sealing NBR  
Limiting temperatures  $-40^\circ\text{C} \dots +125^\circ\text{C}$   
Degree of protection acc. to DIN EN 60 529 for coupled connector IP 65

Further selection of hoods/housings see chapter 31

Accessories

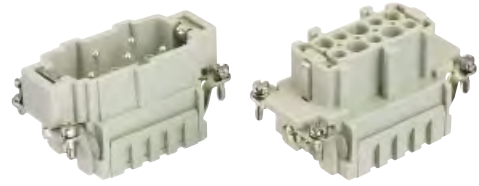
Cable clamps chapter 95  
Coding of hoods/housings chapter 95  
Label acc. to CSA-approval chapter 95  
Han-Snap® chapter 11

<sup>1)</sup> geometric wire gauge

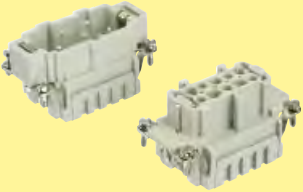
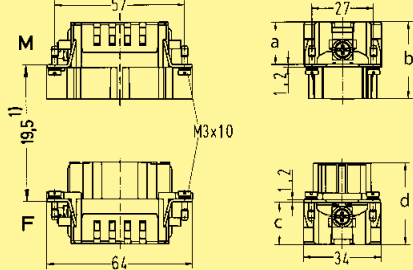
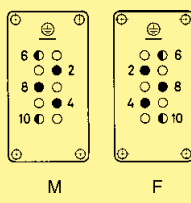
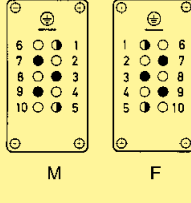
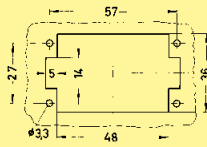
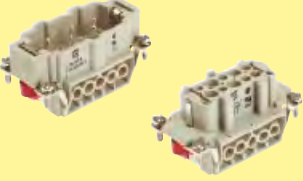
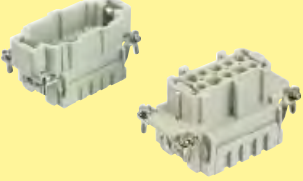
Number of contacts

3 +


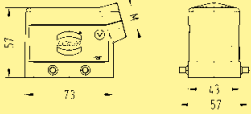

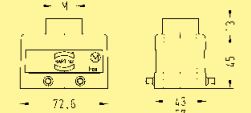
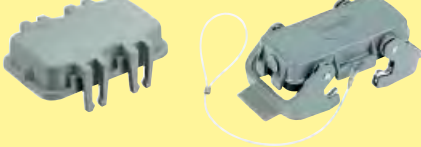
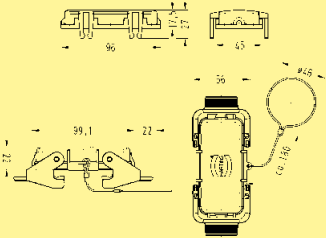

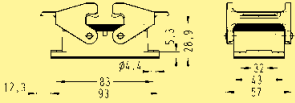

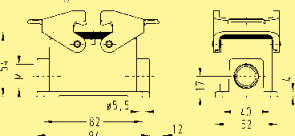

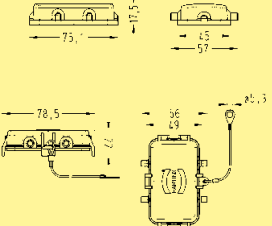

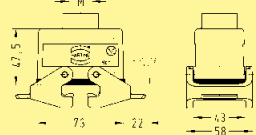

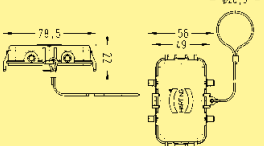
+ 2 additional contacts for safe high voltage connections



Han Hv E

Identification	Series	Part number		Drawing	Dimensions in mm																							
		Male insert (M)	Female insert (F)																									
<p>Cage clamp terminal</p>  <p>not plug compatible to screw/crimp terminal</p>	Han® Hv ES			 <table border="1"> <tr> <td></td> <td>a</td> <td>b</td> <td>c</td> <td>d</td> </tr> <tr> <td>Cage clamp terminal</td> <td>18,4</td> <td>33,4</td> <td>18,4</td> <td>35,6</td> </tr> <tr> <td>Screw terminal</td> <td>18,5</td> <td>33,5</td> <td>18</td> <td>34,5</td> </tr> <tr> <td>Crimp terminal</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>		a	b	c	d	Cage clamp terminal	18,4	33,4	18,4	35,6	Screw terminal	18,5	33,5	18	34,5	Crimp terminal					1-3	09 34 003 2616	09 34 003 2716	<p>1) Distance for contact max. 21 mm</p> <p>Contact arrangement (view from termination side)</p> <p>Han® 3 Hv ES</p>  <p>Han® 3 Hv E</p>  <ul style="list-style-type: none"> <li>● Working contact</li> <li>◐ Relay contact</li> <li>○ Without contact</li> </ul> <p>Panel cut out for inserts for use without hoods/housings</p> 
	a	b	c	d																								
Cage clamp terminal	18,4	33,4	18,4	35,6																								
Screw terminal	18,5	33,5	18	34,5																								
Crimp terminal																												
<p>Screw terminal</p> 	Han Hv E®																											
<p>Crimp terminal</p>  <p>Order crimp contacts separately (see page 04.16)</p>	Han Hv E®																											

## Hoods/Housings, metal with 2 levers on the housing

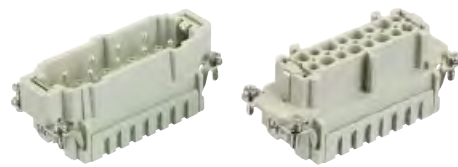
Identification	Part number	M	Drawing	Dimensions in mm
Hoods side entry 	19 34 003 0520	20		
Hoods top entry 	19 34 003 0420 <b>19 34 003 0421</b>	20 25		
Protection covers plastic/metal 	09 30 010 5401 <b>09 30 010 5423</b>			
Identification	Part number	M	Drawing	Dimensions in mm
Housings bulkhead mounting 	09 34 003 0301		Panel cut out 60 x 35 mm 	
Housings surface mounting side entry 	19 34 003 0270	20		
Protection covers for housings plastic/metal 	09 30 010 5407 <b>09 30 010 5425</b>			
Hoods cable to cable top entry 	19 34 003 0730 19 34 003 0731	20 25		
Protection covers for hoods cable to cable metal 	<b>09 30 010 5427</b>			

Han  
Hv E

Number of contacts

6 +


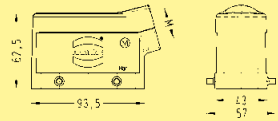



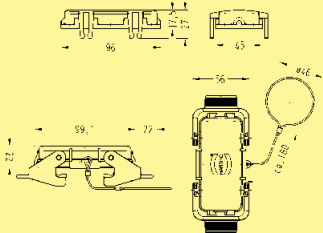

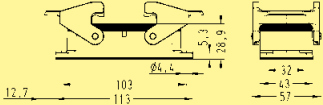

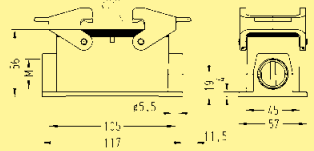

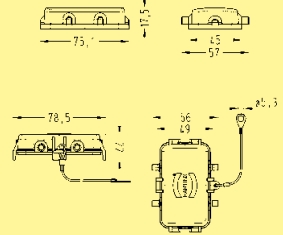

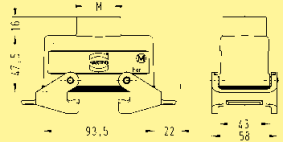

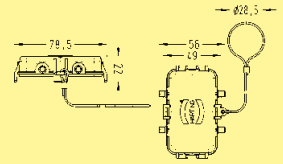
+ 2 additional contacts for safe high voltage connections



Han  
Hv E

Identification	Series	Part number		Drawing	Dimensions in mm																			
		Male insert (M)	Female insert (F)																					
<p>Cage-clamp terminal</p> <p>not plug compatible to screw/crimp terminal</p>	Han® Hv ES			<table border="1"> <thead> <tr> <th></th> <th>a</th> <th>b</th> <th>c</th> <th>d</th> </tr> </thead> <tbody> <tr> <td>Cage clamp terminal</td> <td>18,4</td> <td>33,4</td> <td>18,4</td> <td>35,6</td> </tr> <tr> <td>Screw terminal</td> <td>18,5</td> <td>32,4</td> <td>18</td> <td>34,6</td> </tr> <tr> <td>Crimp terminal</td> <td>18,5</td> <td>34,2</td> <td>18</td> <td>37</td> </tr> </tbody> </table> <p>1) Distance for contact max. 21 mm</p>		a	b	c	d	Cage clamp terminal	18,4	33,4	18,4	35,6	Screw terminal	18,5	32,4	18	34,6	Crimp terminal	18,5	34,2	18	37
	a	b	c	d																				
Cage clamp terminal	18,4	33,4	18,4	35,6																				
Screw terminal	18,5	32,4	18	34,6																				
Crimp terminal	18,5	34,2	18	37																				
<p>Screw terminal</p>	Han Hv E®			<p>Contact arrangement (view from termination side) Han® 6 Hv ES</p>																				
<p>Crimp terminal</p> <p>Order crimp contacts separately (see page 04.16)</p>	Han Hv E®			<p>Han® 6 Hv E</p> <p>● Working contact ○ Relay contact ○ Without contact</p> <p>Panel cut out for inserts for use without hoods/housings</p>																				

## Hoods/Housings, metal with 2 levers on the housing

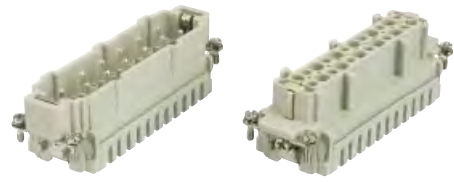
Identification	Part number	M	Drawing	Dimensions in mm
Hoods top entry 	19 34 006 0521	25		
Hoods side entry 	19 34 006 0421	25		
Protection covers plastic/metal 	09 30 016 5401 <b>09 30 016 5422</b>			
Identification	Part number	M	Drawing	Dimensions in mm
Housings bulkhead mounting 	09 34 006 0301		Panel cut out 82 x 35 mm 	
Housings surface mounting side entry 	19 34 006 0271	25		
Protection covers for housings plastic/metal 	09 30 016 5405 <b>09 30 016 5425</b>			
Hoods cable to cable top entry 	19 34 006 0731 19 34 006 0732	25 32		
Protection covers metal 	<b>09 30 016 5426</b>			

Han  
Hv E

Number of contacts

10 +

+ 2 additional contacts for safe high voltage connections



Han Hv E

Identification	Series	Part number		Drawing	Dimensions in mm																				
		Male insert (M)	Female insert (F)																						
<p><b>Cage-clamp terminal</b></p> <p>not plug compatible to screw/crimp terminal</p>	<p>Han® Hv ES</p> <p>1-10</p>	<p>09 34 010 2616</p>	<p>09 34 010 2716</p>	<table border="1"> <thead> <tr> <th></th> <th>a</th> <th>b</th> <th>c</th> <th>d</th> </tr> </thead> <tbody> <tr> <td>Cage clamp terminal</td> <td>18,4</td> <td>33,4</td> <td>18,4</td> <td>35,6</td> </tr> <tr> <td>Screw terminal</td> <td>18,5</td> <td>35</td> <td>18,5</td> <td>35</td> </tr> <tr> <td>Crimp terminal</td> <td>18,5</td> <td>35</td> <td>18,5</td> <td>35</td> </tr> </tbody> </table> <p>1) Distance for contact max. 21 mm</p>		a	b	c	d	Cage clamp terminal	18,4	33,4	18,4	35,6	Screw terminal	18,5	35	18,5	35	Crimp terminal	18,5	35	18,5	35	
	a	b	c	d																					
Cage clamp terminal	18,4	33,4	18,4	35,6																					
Screw terminal	18,5	35	18,5	35																					
Crimp terminal	18,5	35	18,5	35																					
<p><b>Screw terminal</b></p>	<p>Han Hv E®</p> <p>1-10</p>	<p>09 34 010 2601</p>	<p>09 34 010 2701</p>	<p>Contact arrangement (view from termination side)</p> <p>Han® 10 Hv ES</p> <p>M F</p>																					
<p><b>Crimp terminal</b></p> <p>Order crimp contacts separately (see page 04.16)</p>	<p>Han Hv E®</p> <p>1-10</p>	<p>09 34 010 2602</p>	<p>09 34 010 2702</p>	<p>Han® 10 Hv E</p> <p>M F</p> <p> <ul style="list-style-type: none"> <li>● Working contact</li> <li>◐ Relay contact</li> <li>○ Without contact</li> </ul> </p> <p>Panel cut out for inserts for use without hoods/housings</p>																					



## Hoods/Housings, metal with 2 levers on the housing

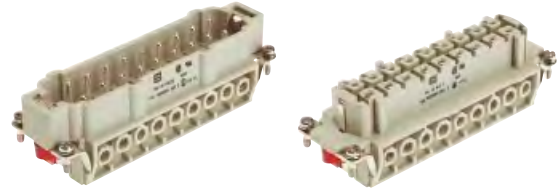
Identification	Part number	M	Drawing	Dimensions in mm
<b>Housings</b> surface mounting side entry	<b>19 34 010 0521</b>	<b>25</b>		
<b>Hoods</b> top entry	<b>19 34 010 0422</b>	<b>32</b>		
<b>Protection covers</b> plastic/metal	<b>09 30 024 5401</b> <b>09 30 024 5422</b>			
<b>Identification</b>	<b>Part number</b>	<b>M</b>	<b>Drawing</b>	<b>Dimensions in mm</b>
<b>Housings</b> bulkhead mounting	<b>09 34 010 0301</b>		Panel cut out 108 x 35 mm 	
<b>Housings</b> surface mounting top entry	<b>19 34 010 0271</b>	<b>25</b>		
<b>Protection covers for housings</b> plastic/metal	<b>09 30 024 5405</b> <b>09 30 024 5425</b>			
<b>Hoods</b> cable to cable top entry	<b>19 34 010 0732</b>	<b>32</b>		
<b>Protection covers</b> metal	<b>09 30 024 5426</b>			

Han  
Hv E

Number of contacts

16 +

+ 2 additional contacts for safe high voltage connections



Han  
Hv E

Identification

Screw terminal



Series

Han  
Hv E®

1-16

Part number

Male insert (M)

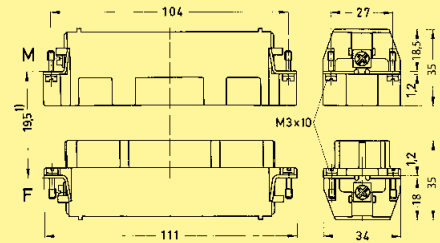
Female insert (F)

Drawing

Dimensions in mm

**09 34 016 2601**

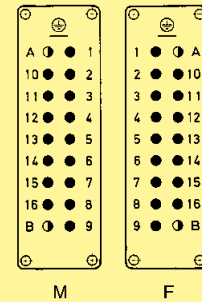
**09 34 016 2701**



1) Distance for contact max. 21 mm

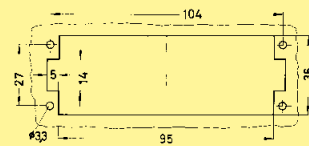
Contact arrangement (view from termination side)

Han® 16 Hv E


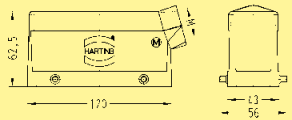

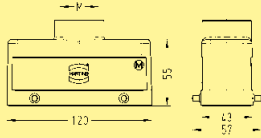

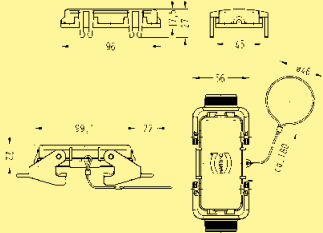

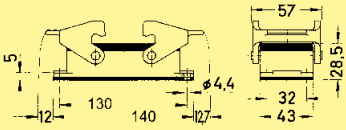

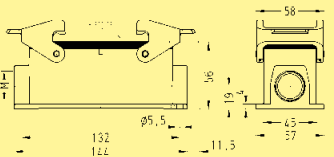

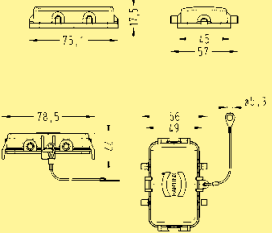

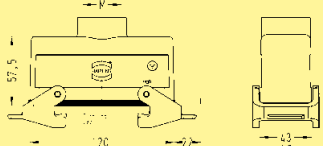

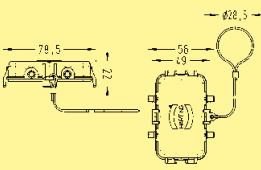


- Working contact
- Relay contact
- Without contact

Panel cut out for inserts for use without hoods/housings



## Hoods/Housings, metal with 2 levers on the housing

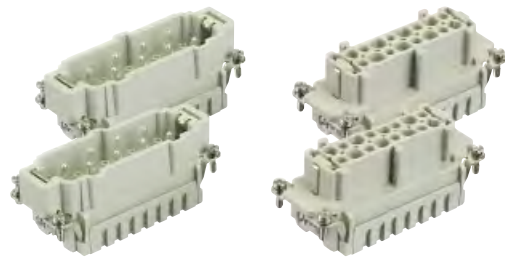
Identification		Part number	M	Drawing	Dimensions in mm
Housings		19 34 010 0521	25		
Hoods		19 34 010 0422	32		
Protection covers		<b>09 30 024 5401</b> <b>09 30 024 5422</b>			
Identification		Part number	M	Drawing	Dimensions in mm
Housings		<b>09 34 010 0301</b>		Panel cut out 108 x 35 mm 	
Housings		19 34 010 0271	25		
Protection covers for housings		<b>09 30 024 5405</b> <b>09 30 024 5425</b>			
Hoods		19 34 010 0732	32		
Protection covers		09 30 024 5426			

Han  
Hv E

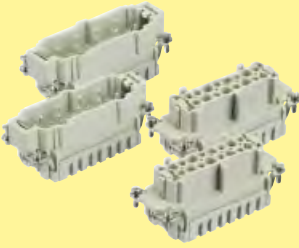
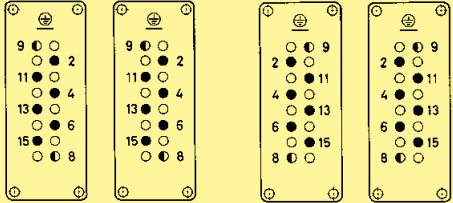
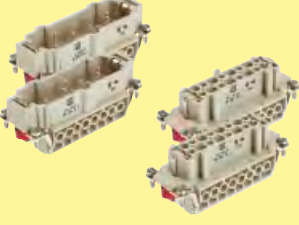
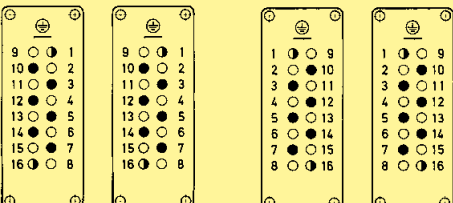
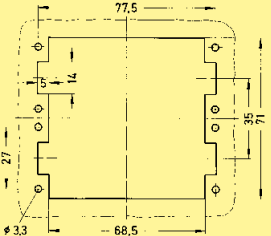
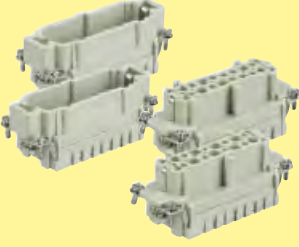
Number of contacts

12 +

+ 4 additional contacts for safe high voltage connections

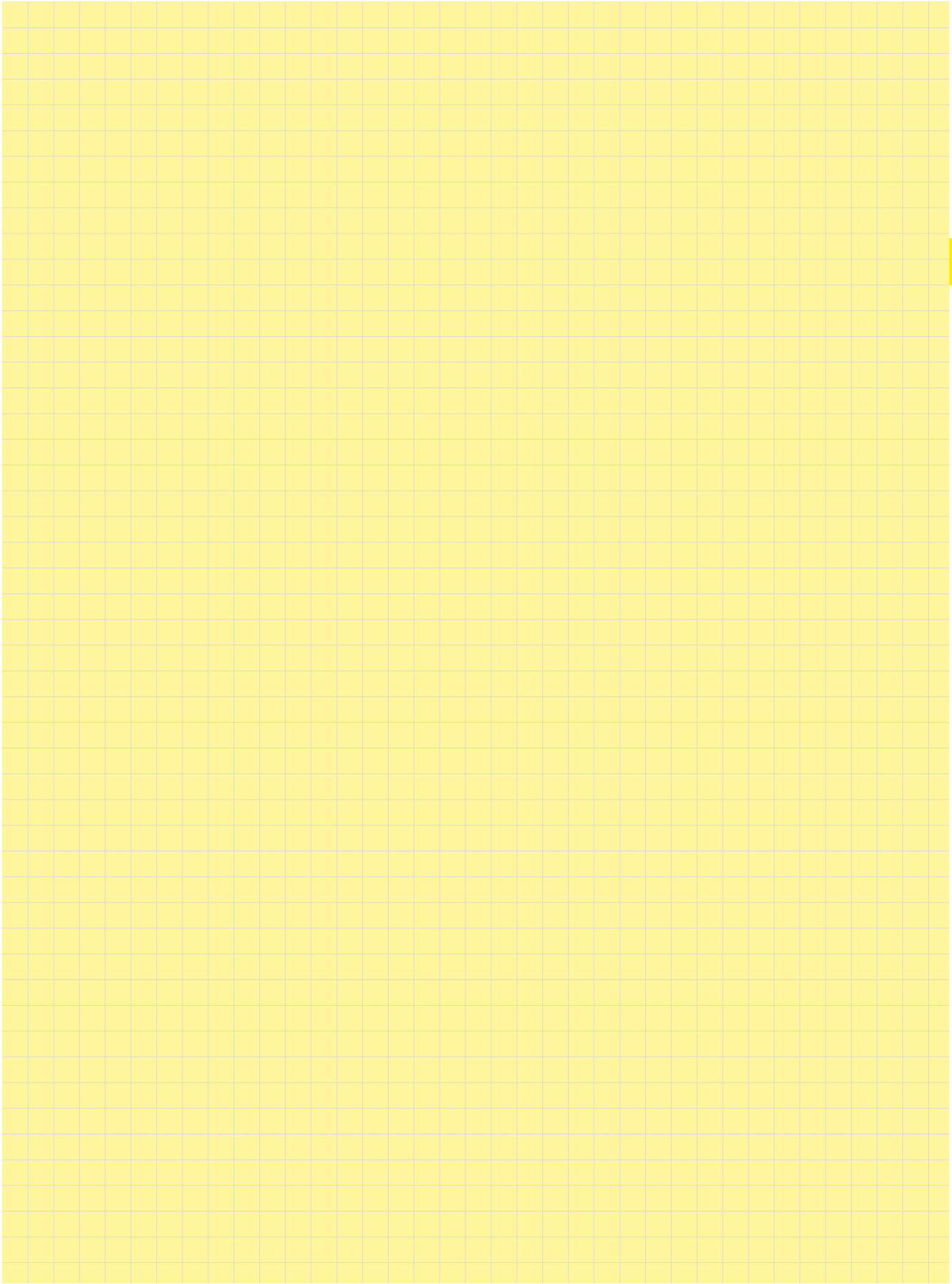


Han Hv E

Identification	Series	Part number		Drawing	Dimensions in mm
		Male insert (M)	Female insert (F)		
<p>Cage-clamp terminal</p>  <p>not plug compatible to screw/crimp terminal</p>	<p>Han® Hv ES</p> <p>1-6 1-6</p>	<p>09 34 006 2616 09 34 006 2616</p>	<p>09 34 006 2716 09 34 006 2716</p>	<p>Dimensions for inserts see page 04.06</p> <p>Contact arrangement (view from termination side)</p> <p>Han® 12 Hv ES</p>  <p>M F</p>	
<p>Screw terminal</p> 	<p>Han Hv E®</p> <p>1-6 1-6</p>	<p>09 34 006 2601 09 34 006 2601</p>	<p>09 34 006 2701 09 34 006 2701</p>	<p>Han® 12 Hv E</p>  <p>M F</p> <ul style="list-style-type: none"> <li>● Working contact</li> <li>◐ Relay contact</li> <li>○ Without contact</li> </ul> <p>Panel cut out for inserts for use without hoods/housings</p> 	
<p>Crimp terminal</p>  <p>Order crimp contacts separately (see page 04.16)</p>	<p>Han Hv E®</p> <p>1-6 1-6</p>	<p>09 34 006 2602 09 34 006 2602</p>	<p>09 34 006 2702 09 34 006 2702</p>		

Hoods/Housings for Han® 12 Hv E/ES

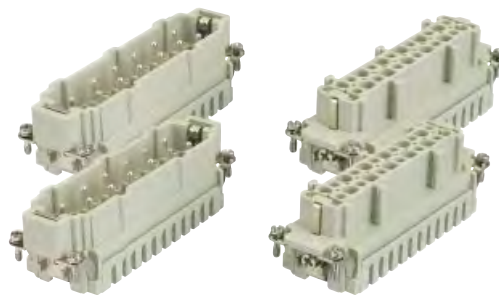
see chapter 31



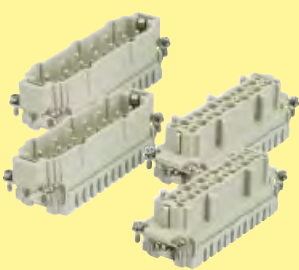
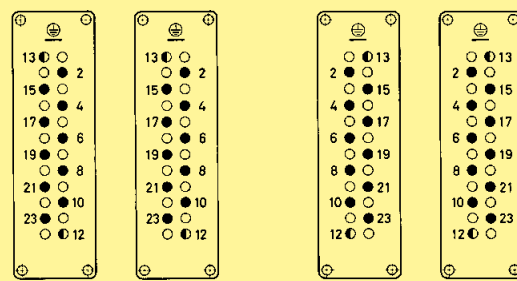
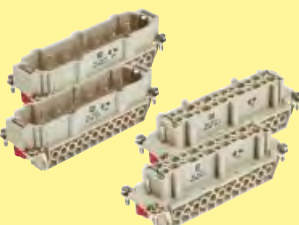
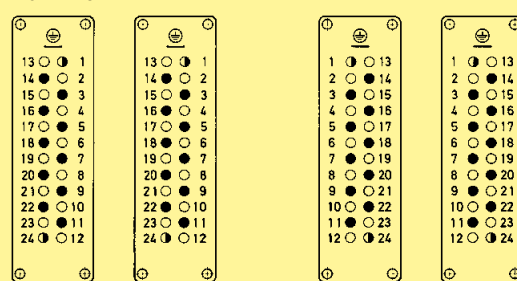

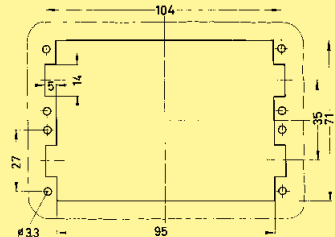
Number of contacts

**20** +

+ 4 additional contacts for safe high voltage connections



Han Hv E

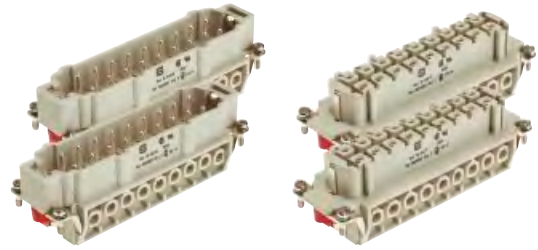
Identification	Series	Part number		Drawing	Dimensions in mm
		Male insert (M)	Female insert (F)		
<p>Cage clamp terminal</p>  <p>not plug compatible to screw/crimp terminal</p>	<p>Han® Hv ES</p> <p>1-10 1-10</p>	<p>09 34 010 2616 09 34 010 2616</p>	<p>09 34 010 2716 09 34 010 2716</p>	<p>Dimensions for inserts see page 04.08</p> <p>Contact arrangement (view from termination side)</p> <p>Han® 20 Hv ES</p>  <p><b>M</b> <b>F</b></p>	
<p>Screw terminal</p> 	<p>Han Hv E®</p> <p>1-10 1-10</p>	<p>09 34 010 2601 09 34 010 2601</p>	<p>09 34 010 2701 09 34 010 2701</p>	<p>Han® 20 Hv E</p>  <p><b>M</b> <b>F</b></p>	
<p>Crimp terminal</p>  <p>Order crimp contacts separately (see page 04.16)</p>	<p>Han Hv E®</p> <p>1-10 1-10</p>	<p>09 34 010 2602 09 34 010 2602</p>	<p>09 34 010 2702 09 34 010 2702</p>	<p> <ul style="list-style-type: none"> <li>● Working contact</li> <li>● Relay contact</li> <li>○ Without contact</li> </ul> </p> <p>Panel cut out for inserts for use without hoods/housings</p> 	


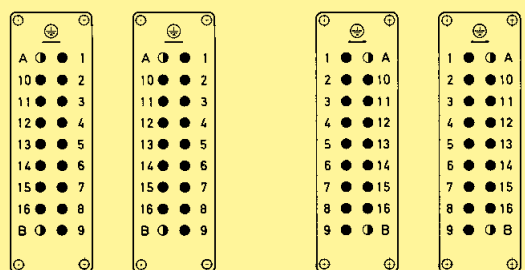
Hoods/Housings for Han® 20 Hv E/ES

Number of contacts

32 +

+ 4 additional contacts for safe high voltage connections



Identification	Series	Part number		Drawing	Dimensions in mm
		Male insert (M)	Female insert (F)		
Screw terminal 	Han Hv E®			Dimensions for inserts see page 04.10  Contact arrangement (view from termination side) Han® 32 Hv E	
		1-16 1-16	<b>09 34 016 2601</b> <b>09 34 016 2601</b>	<b>09 34 016 2701</b> <b>09 34 016 2701</b>	

Han  
Hv E

Hoods/Housings for Han® 32 Hv E

see chapter 31

Stock items in bold type

Han  
Hv E

Identification	Wire gauge (mm <sup>2</sup> )	Male contacts	Female contacts	Drawing	Dimensions in mm																																
<b>Crimp contacts</b>																																					
Operating contacts silver plated																																					
				<b>Crimp contact identification</b>																																	
				<table border="1"> <thead> <tr> <th>Identification</th> <th colspan="2">Wire gauge</th> <th>Stripping length</th> </tr> </thead> <tbody> <tr> <td>no groove</td> <td>0.5 mm<sup>2</sup></td> <td>AWG 20</td> <td>7.5 mm</td> </tr> <tr> <td>1 groove*</td> <td>0.75 mm<sup>2</sup></td> <td>AWG 18</td> <td>7.5 mm</td> </tr> <tr> <td>1 groove</td> <td>1 mm<sup>2</sup></td> <td>AWG 18</td> <td>7.5 mm</td> </tr> <tr> <td>2 grooves</td> <td>1.5 mm<sup>2</sup></td> <td>AWG 16</td> <td>7.5 mm</td> </tr> <tr> <td>3 grooves</td> <td>2.5 mm<sup>2</sup></td> <td>AWG 14</td> <td>7.5 mm</td> </tr> <tr> <td>wide groove</td> <td>3 mm<sup>2</sup></td> <td>AWG 12</td> <td>7.5 mm</td> </tr> <tr> <td>no groove</td> <td>4 mm<sup>2</sup></td> <td>AWG 12</td> <td>7.5 mm</td> </tr> </tbody> </table>	Identification	Wire gauge		Stripping length	no groove	0.5 mm <sup>2</sup>	AWG 20	7.5 mm	1 groove*	0.75 mm <sup>2</sup>	AWG 18	7.5 mm	1 groove	1 mm <sup>2</sup>	AWG 18	7.5 mm	2 grooves	1.5 mm <sup>2</sup>	AWG 16	7.5 mm	3 grooves	2.5 mm <sup>2</sup>	AWG 14	7.5 mm	wide groove	3 mm <sup>2</sup>	AWG 12	7.5 mm	no groove	4 mm <sup>2</sup>	AWG 12	7.5 mm	
Identification	Wire gauge		Stripping length																																		
no groove	0.5 mm <sup>2</sup>	AWG 20	7.5 mm																																		
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wide groove	3 mm <sup>2</sup>	AWG 12	7.5 mm																																		
no groove	4 mm <sup>2</sup>	AWG 12	7.5 mm																																		
				* on the back crimp collar																																	
Relay contact	0.75-1	09 33 000 6109																																			
	1.5	09 33 000 6110																																			
	2.5	09 33 000 6111																																			

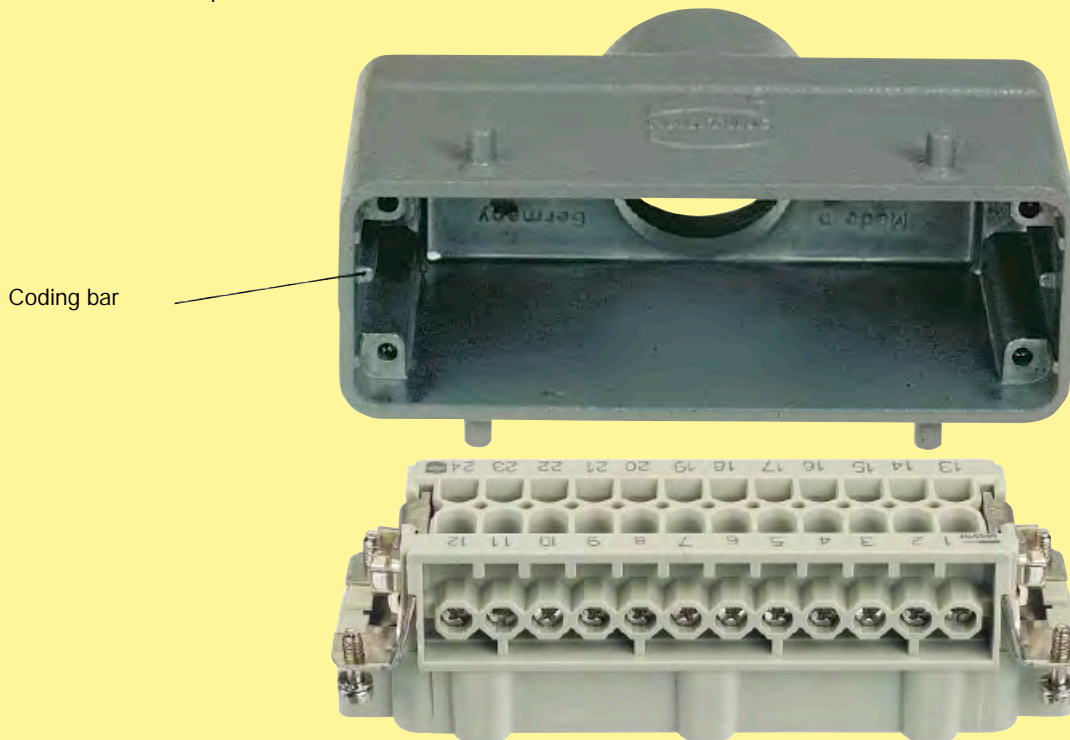
For a fully equipped crimp connector the following contacts are required:

Type	Contacts total	Operating contacts	Relay contacts
Han <sup>®</sup> 3 Hv E	5	3	2
Han <sup>®</sup> 6 Hv E	8	6	2
Han <sup>®</sup> 10 Hv E	12	10	2
Han <sup>®</sup> 12 Hv E	16	12	4
Han <sup>®</sup> 20 Hv E	24	20	4



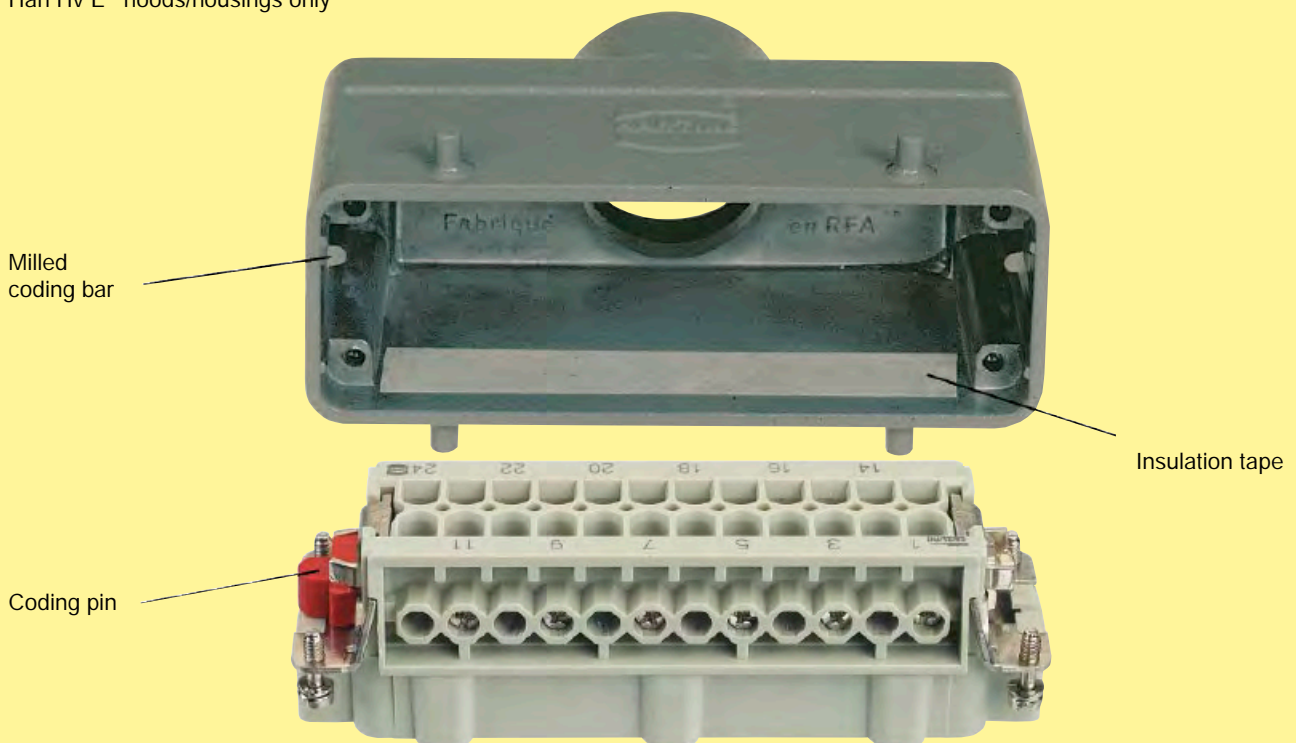
## Standard Hoods/Housings Han<sup>®</sup> B

Suitable for inserts  
Han<sup>®</sup> Hv ES cage-clamp terminal  
and Han Hv E<sup>®</sup> crimp terminal



## Special hood/housing Han Hv E<sup>®</sup>

Han Hv E<sup>®</sup> inserts may be used  
together with the corresponding  
Han Hv E<sup>®</sup> hoods/housings only



Han  
Hv E

Han  
Hv E

