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Han  
Hv E

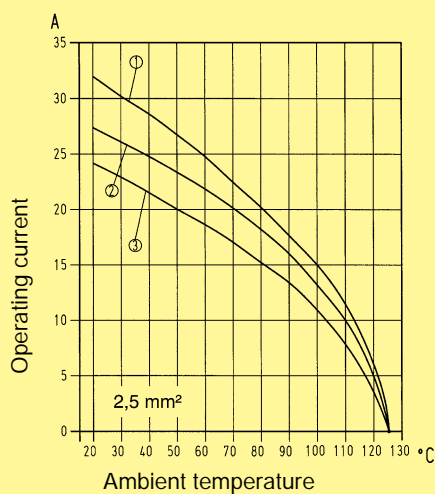
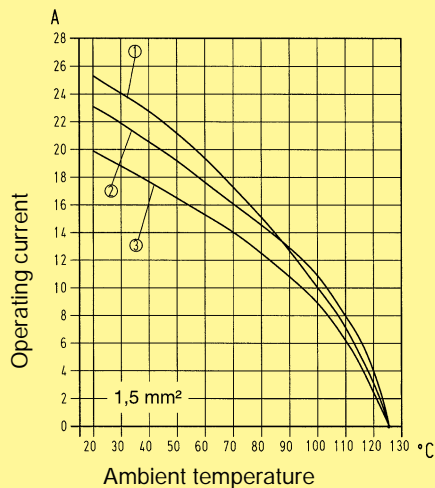
## Features

- Designed for application up to 830 V
- Available in several termination techniques
- No special tools required
- Han Hv E<sup>®</sup> screw requires special Han Hv E<sup>®</sup> 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<sup>®</sup> 3 Hv E  
 ② Han<sup>®</sup> 6 Hv E  
 ③ Han<sup>®</sup> 10 Hv E / Han<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup> chapter 11

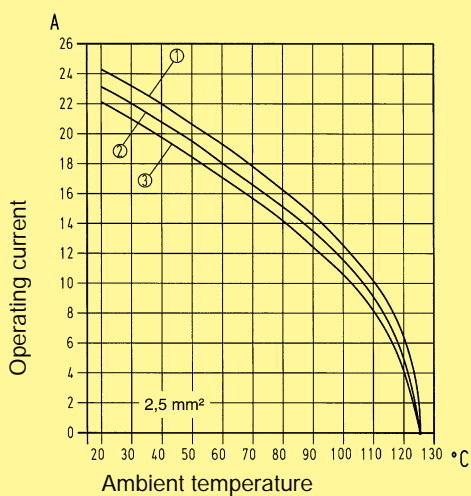
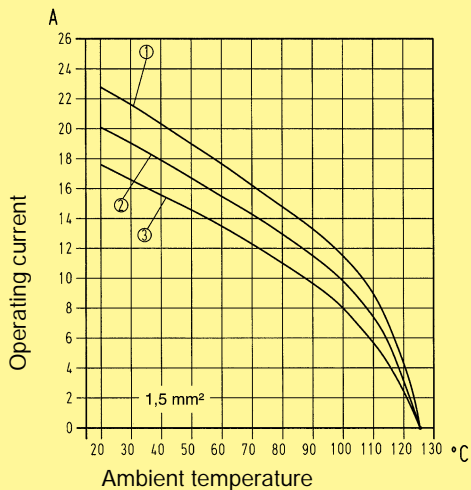
## Features

- 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  
 or  
 Relay contacts

16 A  
 830 V  
 8 kV  
 3  
 16 A 1000 V 8 kV 2  
 16 A 720/1250 V 8 kV 2  
 16 A 500 V 6 kV 3

Rated voltage  
 acc. to UL/CSA  
 Relay contacts

600 V  
 250 V

Insulation resistance  
 Material  
 Limiting temperatures  
 Flammability acc. to UL 94  
 Mechanical working life  
 - mating cycles

$\geq 10^{10} \Omega$   
 polycarbonate  
 -40 °C ... +125 °C  
 V 0  
 $\geq 500$

## Contacts

Material  
 Surface  
 - hard-silver plated  
 Contact resistance  
 Cage clamp terminal  
 - Wire gauge<sup>1)</sup>  
 - AWG

copper alloy  
 3  $\mu\text{m}$  Ag  
 $\leq 3 \text{ m}\Omega$   
 0.14 ... 2.5 mm<sup>2</sup>  
 26 ... 14

## Hoods/Housings

Material  
 Surface  
 Locking element  
 Hoods/Housings sealing  
 Limiting temperatures  
 Degree of protection acc. to  
 DIN EN 60 529  
 for coupled connector

aluminium die-cast  
 powder-coated  
 RAL 7037  
 Han-Easy Lock®  
 NBR  
 -40 °C ... +125 °C  
 IP 65

Further selection of hoods/housings see chapter 31

## Accessories

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

chapter 95  
 chapter 95  
 chapter 95  
 chapter 11

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

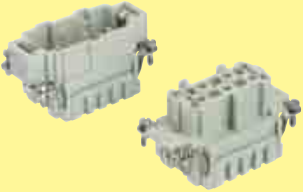
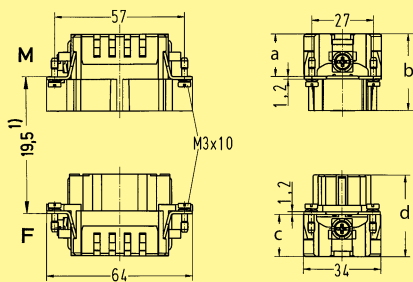

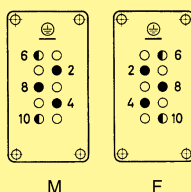
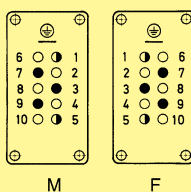
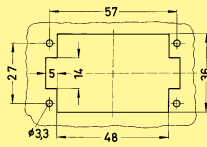

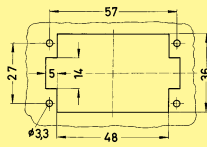
Number of contacts

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	1-3	09 34 003 2616	09 34 003 2716	 <table border="1" data-bbox="957 891 1444 985"> <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>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> </tbody> </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				
	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®	1-3	09 34 003 2601	09 34 003 2701	<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> 																				
<p>Crimp terminal</p>  <p>Order crimp contacts separately (see page 04.16)</p>	Han Hv E®	1-3	09 34 003 2602	09 34 003 2702	<p>● Working contact</p> <p>◐ Relay contact</p> <p>○ 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 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		<b>09 30 010 5407</b> <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

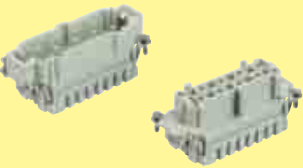
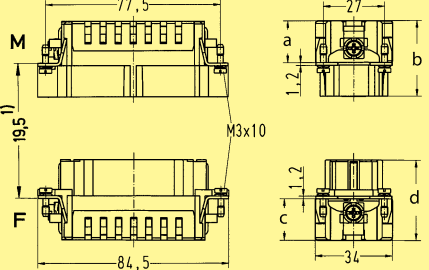

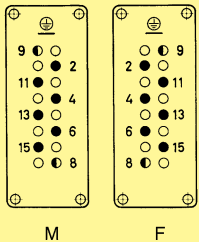

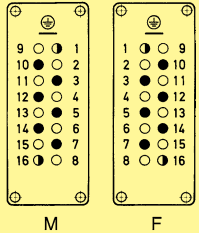
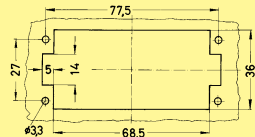
Number of contacts

6 +


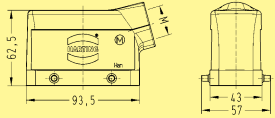

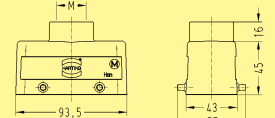

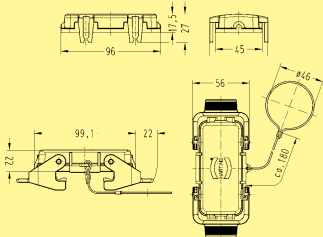

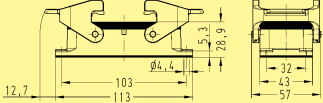

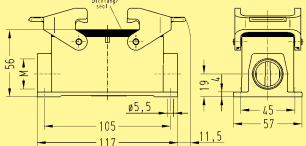

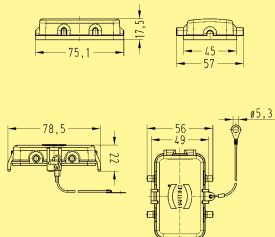

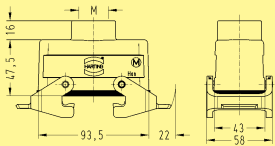

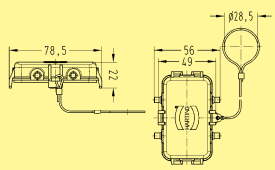
+ 2 additional contacts for safe high voltage connections



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)</p> <p>Han® 6 Hv ES</p>  <p>M F</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>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> 																					

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

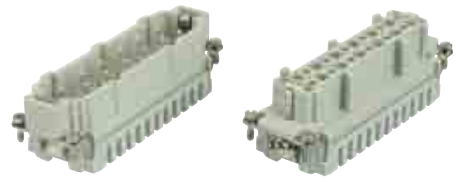
Identification	Part number	M	Drawing	Dimensions in mm
<b>Hoods</b> top entry 	19 34 006 0521	25		
<b>Hoods</b> side entry 	19 34 006 0421	25		
<b>Protection covers</b> plastic/metal 	09 30 016 5401 <b>09 30 016 5422</b>			
Identification	Part number	M	Drawing	Dimensions in mm
<b>Housings</b> bulkhead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

Han  
Hv E

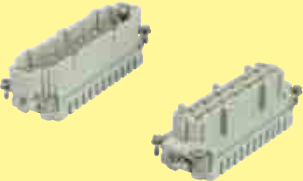
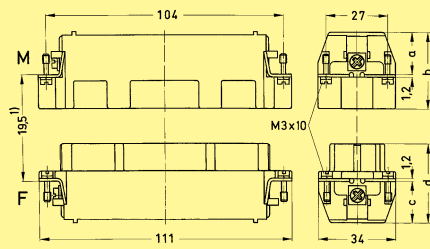

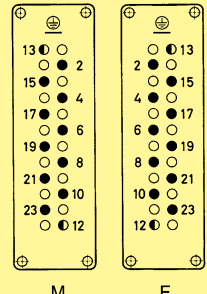

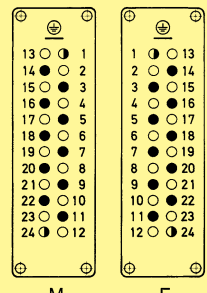
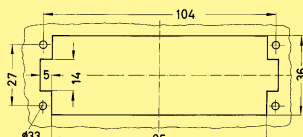
Number of contacts

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>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>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>		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>Screw terminal</p> 	Han Hv E®			<p>Contact arrangement (view from termination side)</p> <p>Han® 10 Hv ES</p> 																				
<p>Crimp terminal</p>  <p>Order crimp contacts separately (see page 04.16)</p>	Han Hv E®			<p>Han® 10 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> 																				



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

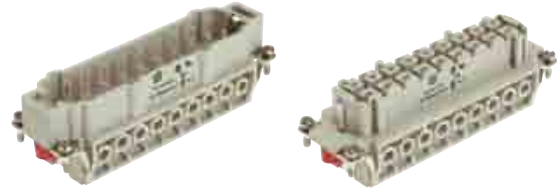
Identification	Part number	M	Drawing	Dimensions in mm
<b>Housings</b> surface mounting side entry	19 34 010 0521	25		
<b>Hoods</b> top entry	19 34 010 0422	32		
<b>Protection covers</b> plastic/metal	<b>09 30 024 5401</b> <b>09 30 024 5422</b>			
Identification	Part number	M	Drawing	Dimensions in mm
<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	19 34 010 0271	25		
<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	19 34 010 0732	32		
<b>Protection covers</b> metal	09 30 024 5426			

Han  
Hv E


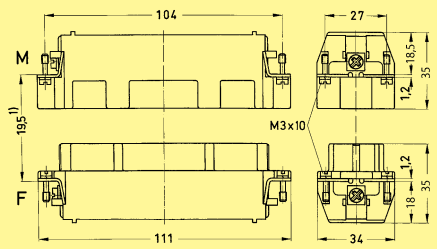
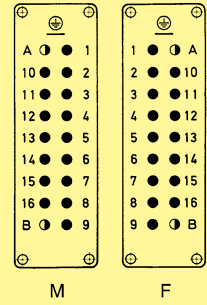
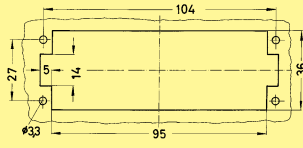
Number of contacts

**16** +

+ 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)		
Screw terminal 	Han Hv E®  1-16	<b>09 34 016 2601</b>	<b>09 34 016 2701</b>	 <p>1) Distance for contact max. 21 mm</p> <p>Contact arrangement (view from termination side) Han® 16 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> 	

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

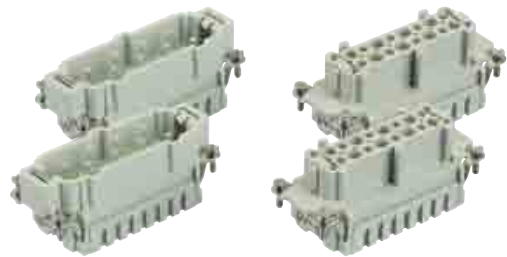
Identification	Part number	M	Drawing	Dimensions in mm
<b>Housings</b> surface mounting side entry	19 34 010 0521	25		
<b>Hoods</b> top entry	19 34 010 0422	32		
<b>Protection covers</b> plastic/metal	<b>09 30 024 5401</b> <b>09 30 024 5422</b>			
Identification	Part number	M	Drawing	Dimensions in mm
<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	19 34 010 0271	25		
<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	19 34 010 0732	32		
<b>Protection covers</b> metal	09 30 024 5426			

Han  
Hv E

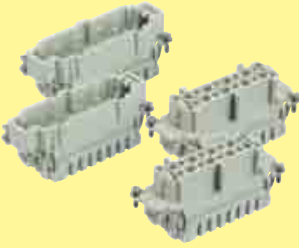
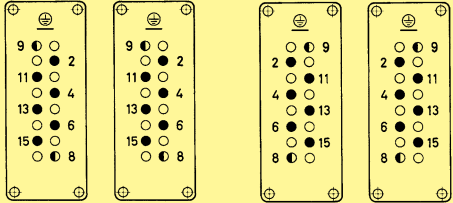
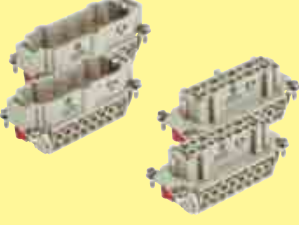
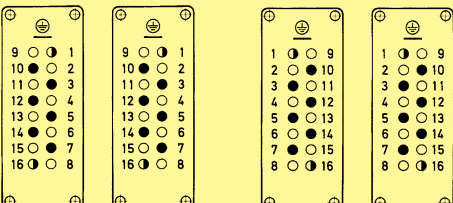
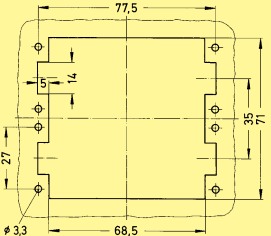
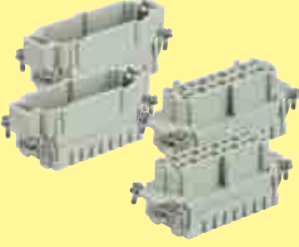
Number of contacts

12 +

+ 4 additional contacts for safe high voltage connections

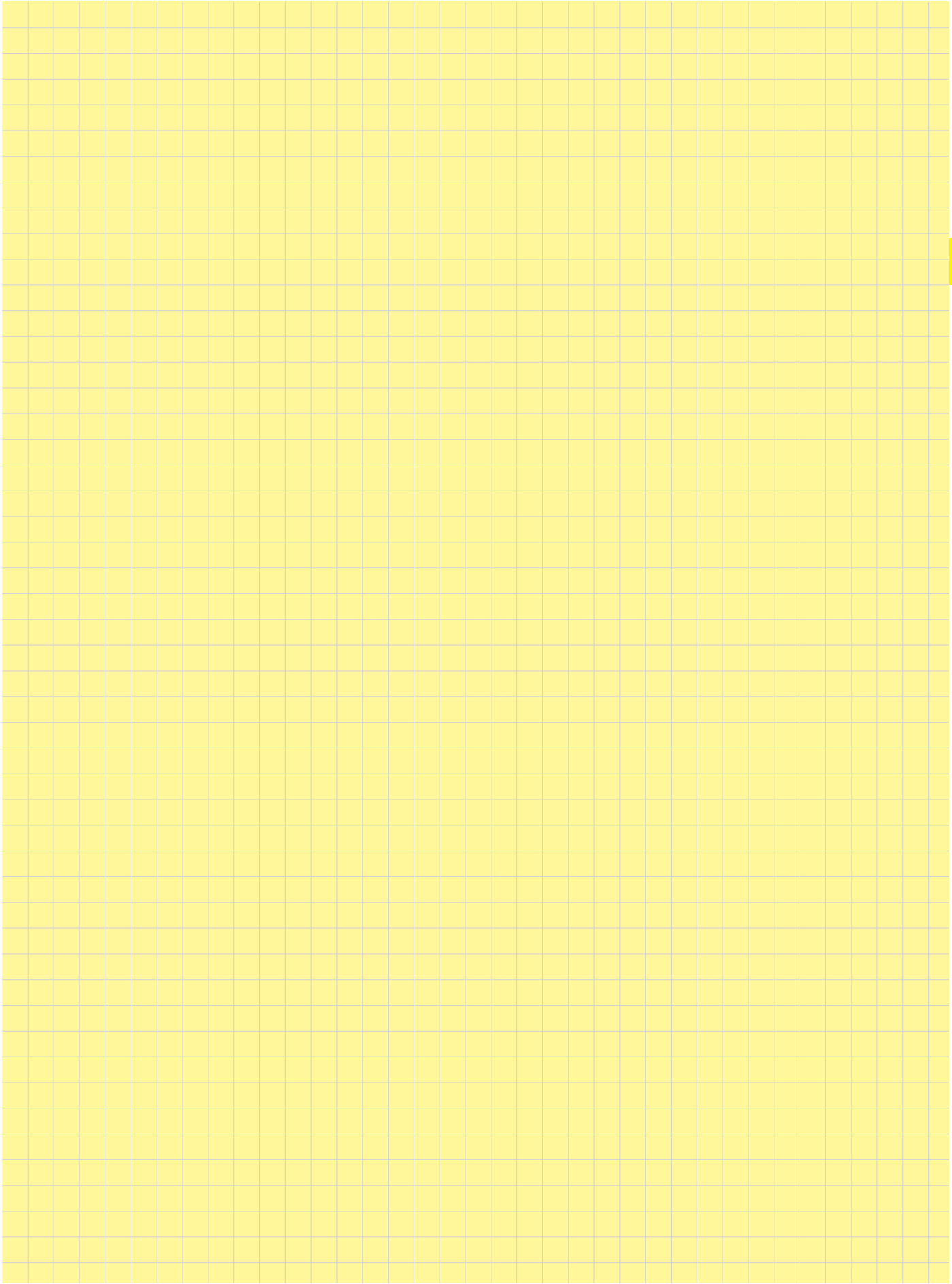


Han Hv E

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

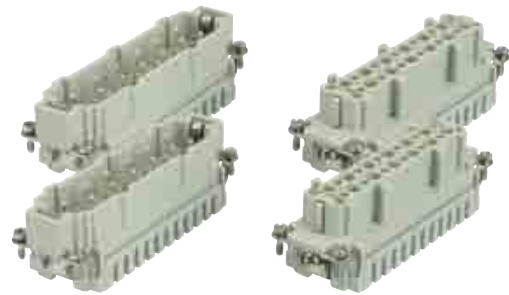


Han  
Hv E

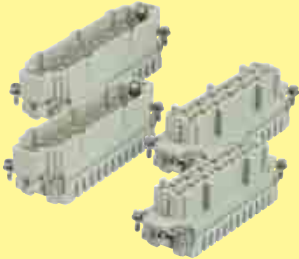
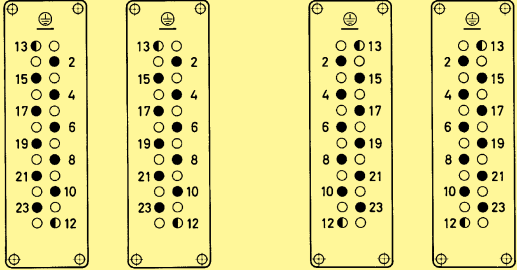

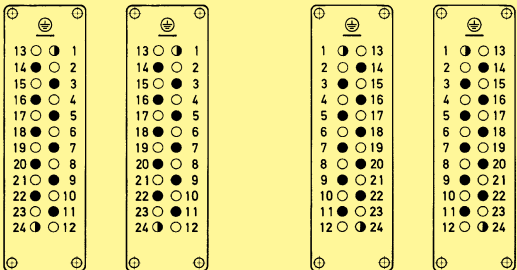
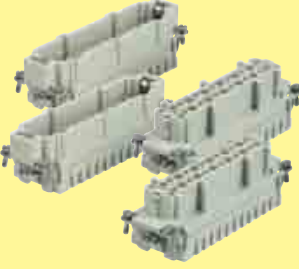
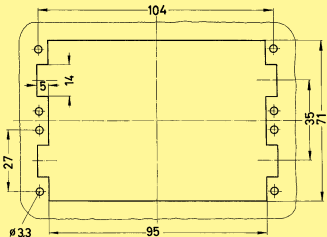
Number of contacts

**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> 	

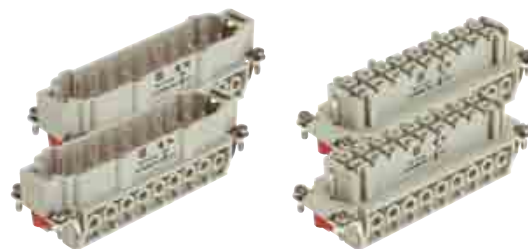
Hoods/Housings for Han® 20 Hv E/ES


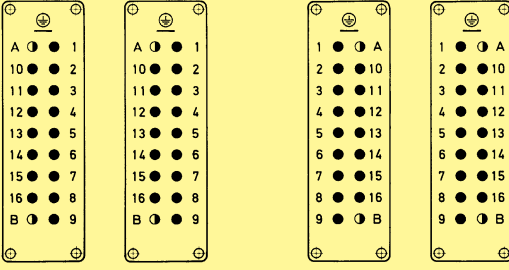
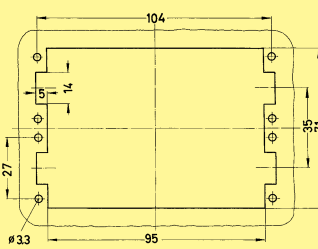
see chapter 31

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®  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>	Dimensions for inserts see page 04.10  Contact arrangement (view from termination side) Han® 32 Hv E  <p style="text-align: center;"><b>M</b>                      <b>F</b></p> <ul style="list-style-type: none"> <li>● Working contact</li> <li>○ Relay contact</li> <li>○ Without contact</li> </ul> Panel cut out for inserts for use without hoods/housings 	

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> <p>* on the back crimp collar</p>		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																																		
Relay contact	0.75-1	09 33 000 6109																																			
	1.5	09 33 000 6110																																			
	2.5	09 33 000 6111																																			

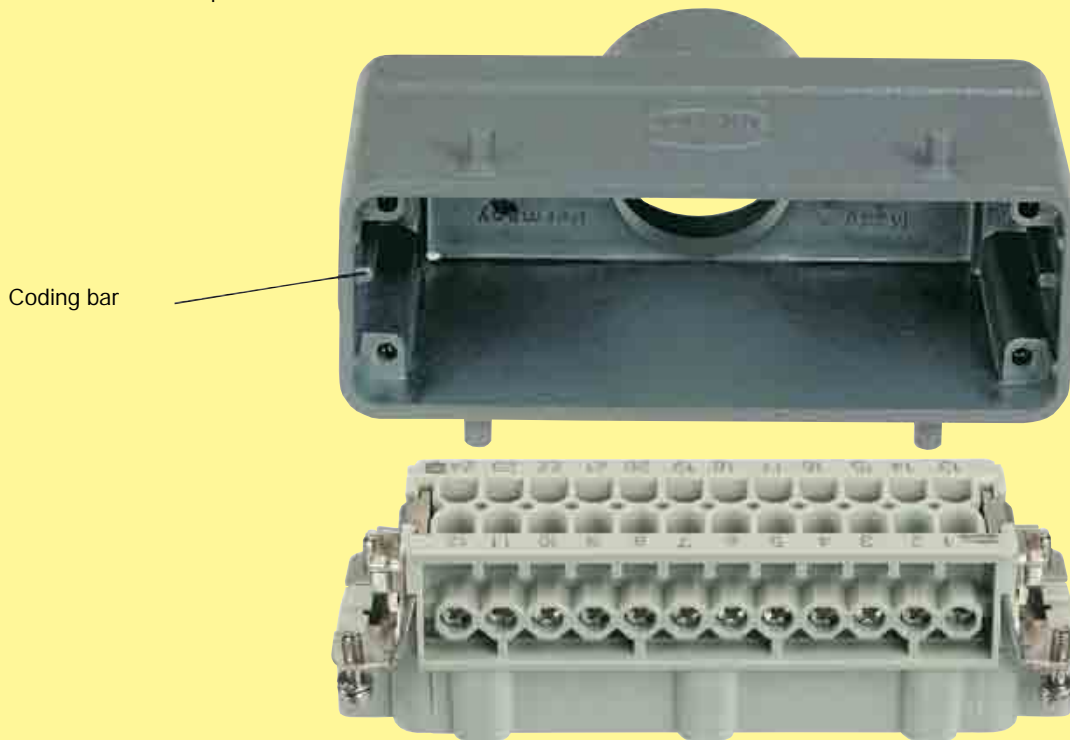
For a fully equipped crimp connector the following contacts are required:

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

