

**Han® Hv ES / Han Hv E®**

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Han  
Hv E

Specifications

DIN VDE 0627  
DIN VDE 0110  
DIN EN 61 984

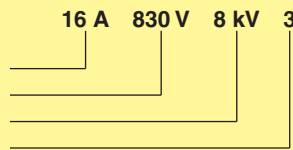
Approvals



Inserts

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

Electrical data  
acc. to DIN EN 61 984



Working current  
Working voltage  
Rated impulse voltage  
Pollution degree

- Pollution degree 2 also  
or  
- Relay contact

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

Working 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  $\leq 3 \text{ m}\Omega$   
Cage-clamp terminal  
- mm<sup>2</sup> 0.14 - 2.5 mm<sup>2</sup>  
- AWG 26 - 14

Hoods/Housings

Material die cast aluminium  
Surface powder-coated  
RAL 7037  
Locking element Han-Easy Lock®  
Hoods/Housings seal NBR  
Limiting temperatures -40 °C / +125 °C  
Degree of protection  
acc. to DIN 40 050 IP 65  
for coupled connector  
Further selection  
of hoods/housings chapter 30 / chapter 31

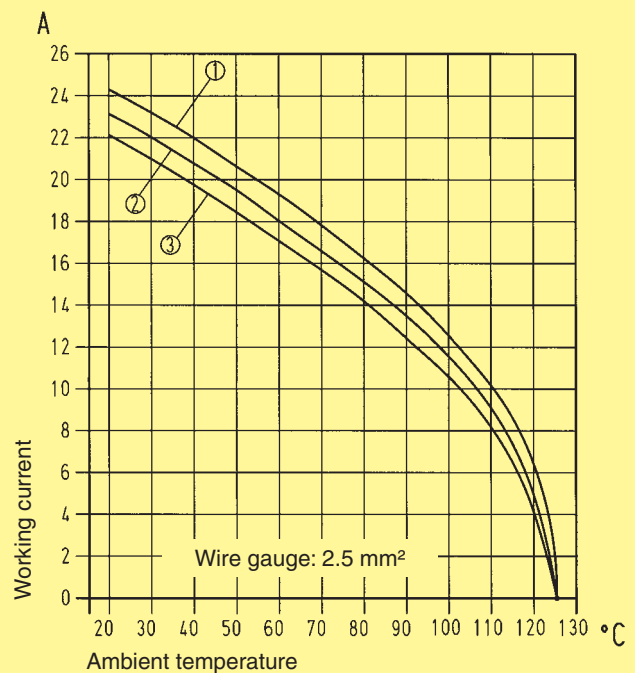
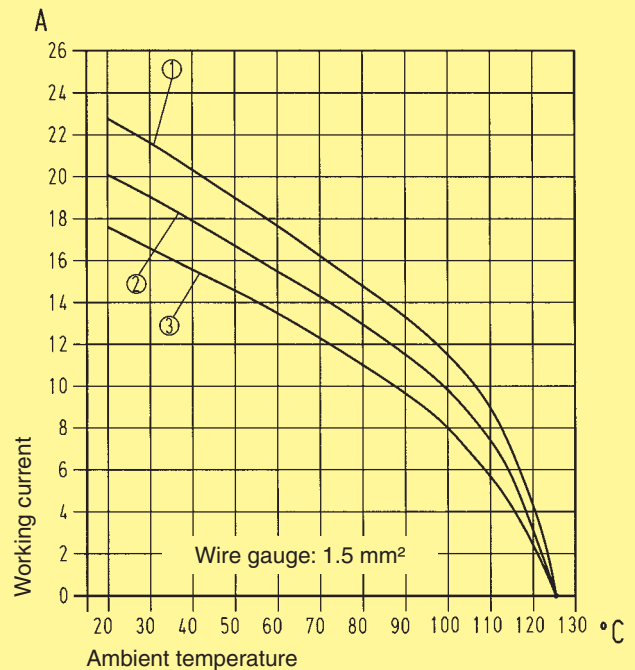
Accessories

Cable clamps chapter 40  
Coding of hoods/housings chapter 40  
Label acc. to CSA-approval chapter 40  
Han-Snap® chapter 11

Current carrying capacity

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 60 512-3.



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

**Specifications**

DIN VDE 0627  
DIN VDE 0110  
DIN EN 61 984

**Approvals**



**Inserts**

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

Electrical data acc. to DIN EN 61 984

Han Hv E® 3, 6, 10, 12 (2 x 6),  
20 (2 x 10) + PE

	<b>16 A 830 V 8 kV 3</b>
Working current	_____
Working voltage	_____
Rated impulse voltage	_____
Pollution degree	_____
- 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 (2 x 16) + PE

	<b>16 A 400/690 V 6 kV 3</b>
Working current	_____
Working voltage conductor – ground	_____
Working voltage conductor – conductor	_____
Rated impulse voltage	_____
Pollution degree	_____
or	16 A 500 V 6 kV 3

Working 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 µm Ag  
Contact resistance  $\leq 1 \text{ m}\Omega$   
Crimp terminal  
- mm<sup>2</sup> 0.5 - 4 mm<sup>2</sup>  
- AWG 20 - 12  
Screw terminal  
- mm<sup>2</sup> 2.5 mm<sup>2</sup>  
- AWG 14  
- Tightening/test torque 0.5 Nm

**Hoods/Housings**

Material die cast aluminium  
Surface powder-coated RAL 7037  
Locking element Han-Easy Lock®  
Hoods/Housings seal NBR  
Limiting temperatures -40 °C / +125 °C  
Degree of protection acc. to DIN EN 60 529 for coupled connector IP 65

Further selection of hoods/housings chapter 30 / chapter 31

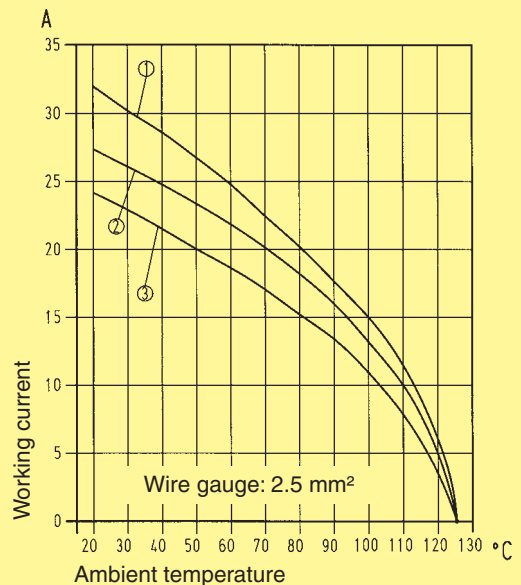
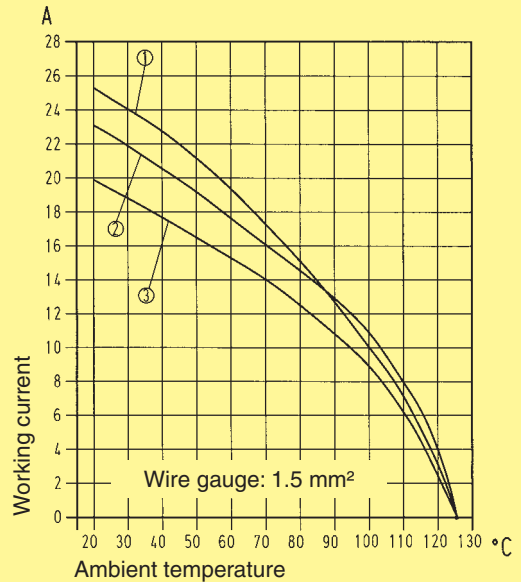
**Accessories**

Crimping tools chapter 99  
Cable clamps chapter 40  
Coding of Hoods/Housings chapter 40  
Label acc. to CSA-approval chapter 40  
Han-Snap® chapter 11

**Current carrying capacity**

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 60 512-3.



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

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

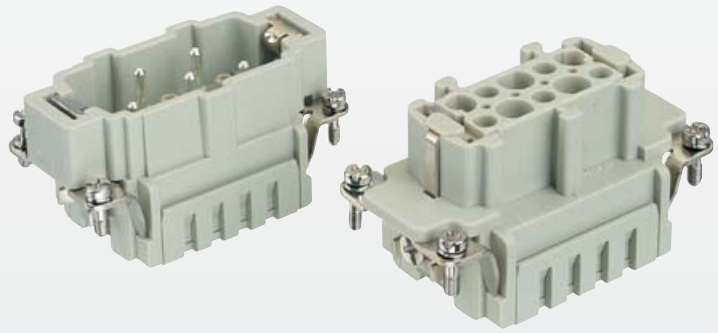
Type	Female contacts	Operating contacts	Relay contacts
Han® 3 Hv E	5	3	2
Han® 6 Hv E	8	6	2
Han® 10 Hv E	12	10	2
Han® 12 Hv E	16	12	4
Han® 16 Hv E	18	18	—
Han® 20 Hv E	24	20	4
Han® 32 Hv E	36	36	—

Han Hv E

Number of contacts

**3** +

+ 2 additional contacts for safe high voltage connections



Inserts

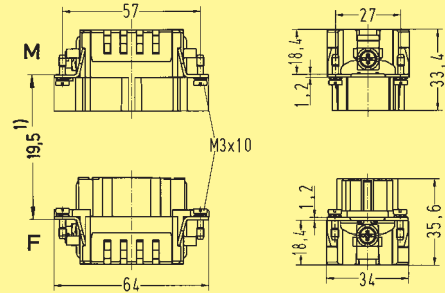
Identification	Series	Part No.		Drawing	Dimensions in mm
		Male insert (M)	Female insert (F)		

Cage-clamp terminal

Han®  
Hv ES

**09 34 003 2616**

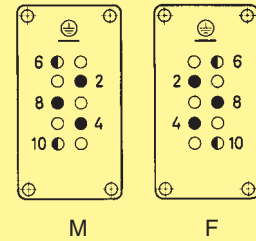
**09 34 003 2716**



1) Distance for contacts max. 21 mm

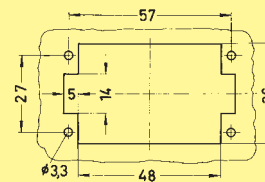
Contact arrangement View from termination side

Han® 3 Hv ES



- Operating contact
- ◐ Relay contact
- Without contact

Panel cut out for inserts for use without hoods/housings



Han  
Hv E

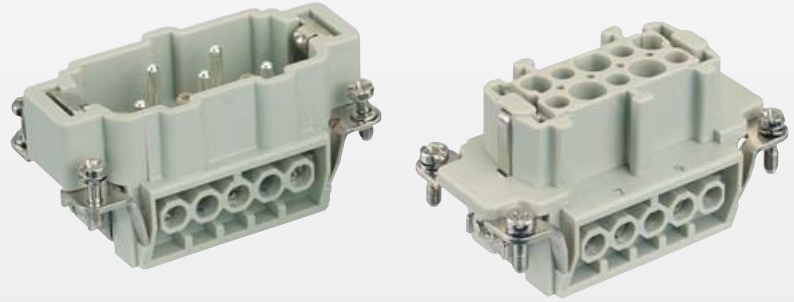
Identification	Part No.			Drawing	Dimensions in mm														
	Low construction	High construction	M																
Hoods	<b>Hoods side-entry</b> 	<b>19 30 010 1520</b> <b>19 30 010 1521</b>	<b>19 30 010 0527</b>	20 25 32															
	<b>Hoods top-entry</b> 	<b>19 30 010 1420</b> <b>19 30 010 1421</b>	<b>19 30 010 0427</b>	20 25 32															
	<b>Protection covers for hoods thermoplastic/metal</b> 	<b>09 30 010 5401</b> <b>09 30 010 5423</b>																	
Housings	<b>Housing bulkhead mounting</b> 	<b>09 30 010 0301</b>		—	Panel cut out 60 x 35 mm 														
	<b>Housings surface mounting</b> 1 side-entry  2 side-entries 	<b>19 30 010 1230</b> <b>19 30 010 1231</b>	<b>19 30 010 0231</b>	20 25															
	<b>Protection covers for housings bulkhead/surface mounting thermoplastic/metal</b> 	<b>09 30 010 5407</b> <b>09 30 010 5425</b>																	
	<b>Hoods cable to cable</b> 	<b>19 30 010 1730</b>	<b>19 30 010 0736</b> <b>19 30 010 0737</b>	20 25 32	<table border="1"> <thead> <tr> <th></th> <th>h</th> </tr> </thead> <tbody> <tr> <td>Low construction</td> <td>47.5</td> </tr> <tr> <td>High construction</td> <td>74.5</td> </tr> </tbody> </table>		h	Low construction	47.5	High construction	74.5								
		h																	
	Low construction	47.5																	
High construction	74.5																		
<b>Protection cover for hoods cable to cable metal</b> 	<b>09 30 010 5427</b>																		
				<table border="1"> <thead> <tr> <th colspan="3">Blind way for one cable entry</th> </tr> <tr> <th></th> <th>a</th> <th>b</th> <th>h</th> </tr> </thead> <tbody> <tr> <td>Low construction</td> <td>40</td> <td>52</td> <td>54</td> </tr> <tr> <td>High construction</td> <td>45</td> <td>57</td> <td>81</td> </tr> </tbody> </table>	Blind way for one cable entry				a	b	h	Low construction	40	52	54	High construction	45	57	81
Blind way for one cable entry																			
	a	b	h																
Low construction	40	52	54																
High construction	45	57	81																

Han Hv E

Number of contacts

3 +

+ 2 additional contacts for safe high voltage connections



Inserts

Identification	Series	Part No.		Drawing	Dimensions in mm
		Male insert (M)	Female insert (F)		

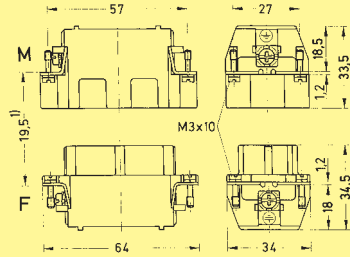
Screw terminal



Han Hv E®

09 34 003 2601

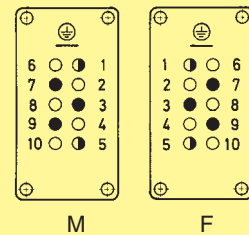
09 34 003 2701



<sup>1)</sup> Distance for contact max. 21 mm

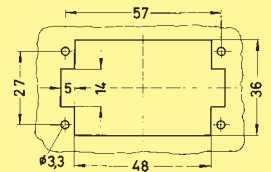
Contact arrangement View from termination side

Han® 3 Hv E



- Operating contact
- Relay contact
- Without contact

Panel cut out for inserts for use without hoods/housings



Crimp terminal

Order contacts separately



Han Hv E®

09 34 003 2602

09 34 003 2702

Han Hv E® Crimp could also be used with a 10 B standard housing.

Identification	Wire gauge (mm <sup>2</sup> )	Part No.		Drawing	Dimensions in mm
		Male contacts	Female contacts		

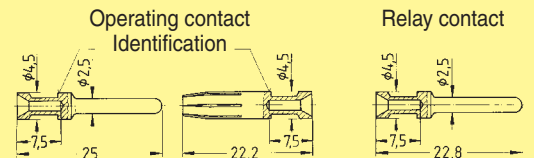
Crimp contacts

- 3 x Operating contact silver plated
- 5 x Relay contact silver plated

0.5  
0.75  
1.0  
1.5  
2.5  
3  
4

**09 33 000 6121**  
**09 33 000 6114**  
**09 33 000 6105**  
**09 33 000 6104**  
**09 33 000 6102**  
**09 33 000 6106**  
**09 33 000 6107**

**09 33 000 6220**  
**09 33 000 6214**  
**09 33 000 6205**  
**09 33 000 6204**  
**09 33 000 6202**  
**09 33 000 6206**  
**09 33 000 6207**


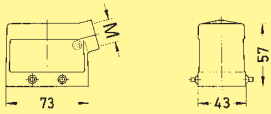

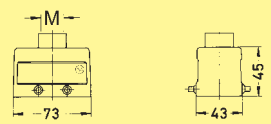

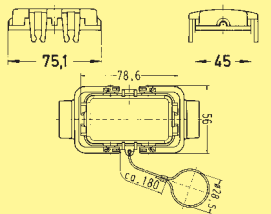

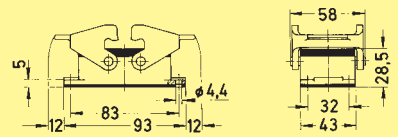

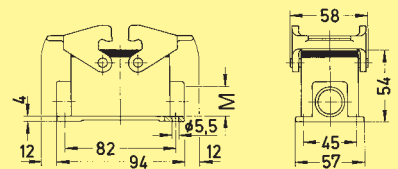

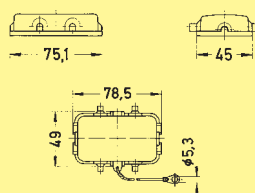

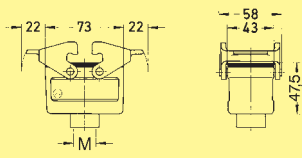

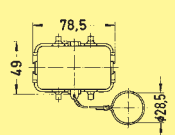


Crimp contact identification

Identification	Wire gauge	Stripping length
no groove	0.5 mm <sup>2</sup>	7.5 mm
1 groove*	0.75 mm <sup>2</sup>	7.5 mm
1 groove	1 mm <sup>2</sup>	7.5 mm
2 grooves	1.5 mm <sup>2</sup>	7.5 mm
3 grooves	2.5 mm <sup>2</sup>	7.5 mm
wide groove	3.0 mm <sup>2</sup>	7.5 mm
no groove	4 mm <sup>2</sup>	7.5 mm

\* on the back crimp collar

Number of pieces per insert

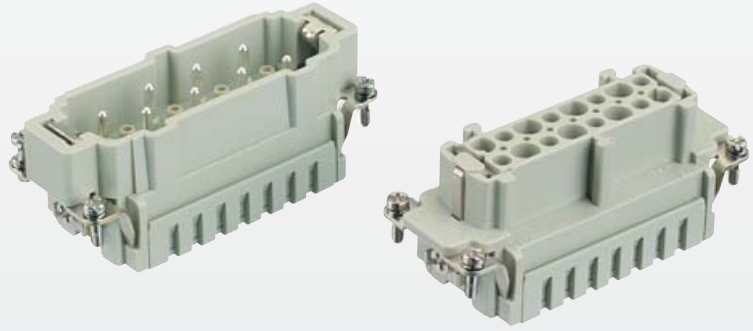
Identification		Part No.	M	Drawing	Dimensions in mm
Hoods	Hood side-entry 	19 34 003 0520	20		73, 57, 43
	Hood top-entry 	19 34 003 0420 <b>19 34 003 0421</b>	20 25		73, 45, 43
	Protection covers thermoplastic/metal 	09 30 010 5401 <b>09 30 010 5423</b>			75,1, 45, 78,6, 95, 160, 87,4
Housings	Housing bulkhead mounting 	09 34 003 0301	—	Panel cut out 60 x 35 mm 	58, 28,5, 32, 43, 83, 93, 12, 4,4
	Housing surface mounting 2 side-entries 	19 34 003 0270	20		58, 54, 45, 57, 82, 94, 12, 5,5, M
	Protection covers thermoplastic/metal 	09 30 010 5407 <b>09 30 010 5425</b>			75,1, 45, 78,5, 49, 5,3
	Hood cable to cable 	19 34 003 0730 19 34 003 0731	20 25		22, 73, 22, 58, 43, 47,5, M
	Protection cover metal 	09 30 010 5427			78,5, 49, 28,5

Han Hv E

Number of contacts

6 +

+ 2 additional contacts for safe high voltage connections



Inserts

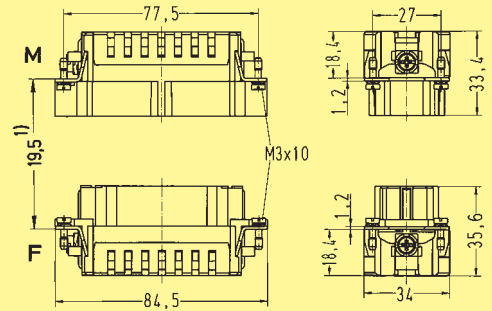
Identification	Series	Part No.		Drawing	Dimensions in mm
		Male insert (M)	Female insert (F)		

Cage-clamp terminal

Han®  
Hv ES

**09 34 006 2616**

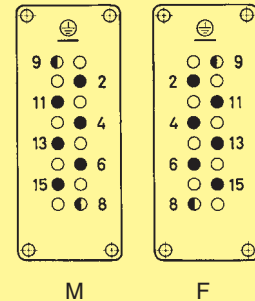
**09 34 006 2716**



<sup>1)</sup> Distance for contact max. 21 mm

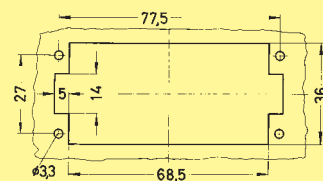
Contact arrangement View from termination side

Han® 6 Hv ES



- Operating contact
- ◐ Relay contact
- Without contact

Panel cut out for inserts for use without hoods/housings





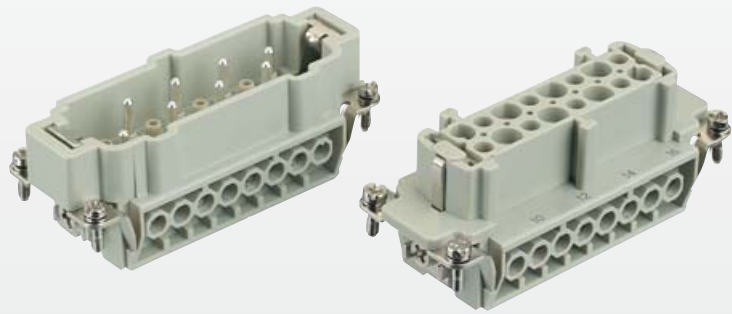
Identification	Part No.			Drawing	Dimensions in mm
	Low construction	High construction	M		
Hoods	<b>Hoods side-entry</b> 	<b>19 30 016 1521</b> <b>19 30 016 1522</b>		25 32	
			<b>19 30 016 0527</b> <b>19 30 016 0528</b>	32 40	
	<b>Hoods top-entry</b> 	<b>19 30 016 1421</b> <b>19 30 016 1422</b>		25 32	
			<b>19 30 016 0427</b> <b>19 30 016 0428</b>	32 40	
	<b>Protection covers for housings thermoplastic/metal</b> 	09 30 016 5401			
		<b>09 30 016 5422</b>			
Housings	<b>Housing bulkhead mounting</b> 	<b>09 30 016 0301</b>		—	Panel cut out 82 x 35 mm 
	<b>Housings surface mounting</b>	<b>1 side-entry</b> <b>19 30 016 1231</b>		25 32	
		<b>2 side-entries</b> <b>19 30 016 1271</b>	<b>19 30 016 0232</b>  <b>19 30 016 0271</b> <b>19 30 016 0272</b>	25 32	
	<b>Protection covers for housings bulkhead mounting thermoplastic/metal</b> 	09 30 016 5405			
		<b>09 30 016 5425</b>			
	<b>Hoods cable to cable</b> 	<b>19 30 016 1731</b>	<b>19 30 016 0736</b> <b>19 30 016 0737</b>	25 32	
<b>Protection cover for hoods cable to cable metal</b> 	09 30 016 5426				

Han Hv E

Number of contacts

6 +

+ 2 additional contacts for safe high voltage connections



Inserts

Han Hv E

Identification	Series	Part No.		Drawing	Dimension in mm
		Male insert (M)	Female insert (F)		

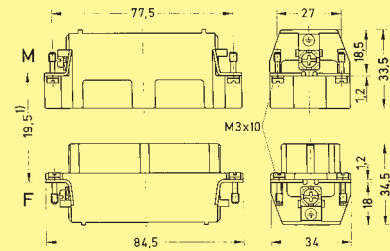
Screw terminal



Han Hv E®

09 34 006 2601

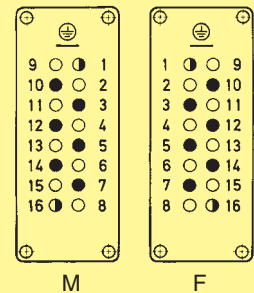
09 34 006 2701



<sup>1)</sup> Distance for contact max. 21 mm

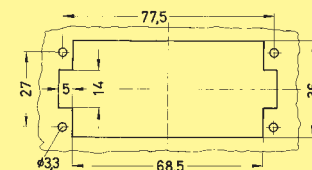
Contact arrangement View from termination side

Han® 6 Hv E



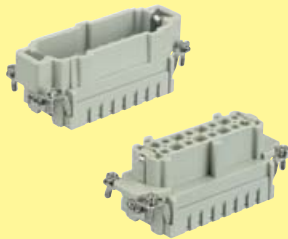
- Operating contact
- Relay contact
- Without contact

Panel cut out for inserts for use without hoods/housings



Crimp terminal

Order contacts separately



Han Hv E®

09 34 006 2602

09 34 006 2702

Han Hv E® Crimp could also be used with a 16 B standard housing.

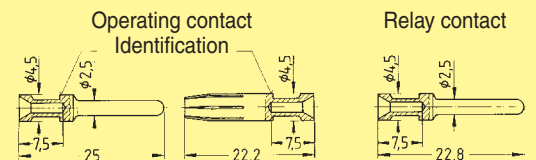
Identification	Wire gauge (mm <sup>2</sup> )	Part No.		Drawing	Dimensions in mm
		Male contacts	Female contacts		

Crimp contacts

Quantity	Contact Type	Wire Gauge	Male Part No.	Female Part No.
6 x	Operating contact silver plated	0.5	09 33 000 6121	09 33 000 6220
		0.75	09 33 000 6114	09 33 000 6214
		1.0	09 33 000 6105	09 33 000 6205
		1.5	09 33 000 6104	09 33 000 6204
		2.5	09 33 000 6102	09 33 000 6202
8 x	Operating contact silver plated	3	09 33 000 6106	09 33 000 6206
		4	09 33 000 6107	09 33 000 6207

Quantity	Contact Type	Wire Gauge	Male Part No.	Female Part No.
2 x	Relay contact silver plated	0.75-1	09 33 000 6109	
		1.5	09 33 000 6110	
		2.5	09 33 000 6111	


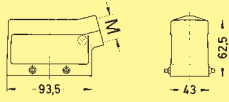

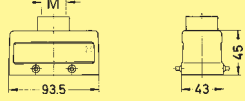

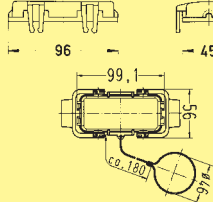

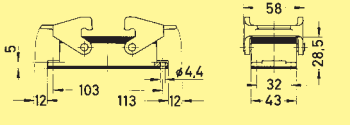

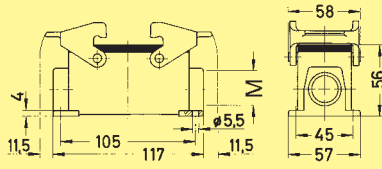

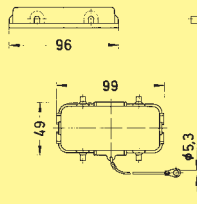

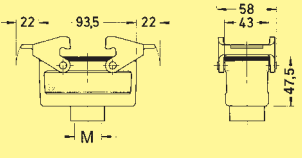

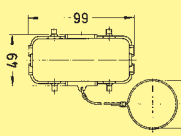
Number of pieces per insert



Crimp contact identification

Identification	Wire gauge	Stripping length
no groove	0.5 mm <sup>2</sup>	7.5 mm
1 groove*	0.75 mm <sup>2</sup>	7.5 mm
1 groove	1 mm <sup>2</sup>	7.5 mm
2 grooves	1.5 mm <sup>2</sup>	7.5 mm
3 grooves	2.5 mm <sup>2</sup>	7.5 mm
wide groove	3.0 mm <sup>2</sup>	7.5 mm
no groove	4 mm <sup>2</sup>	7.5 mm

\* on the back crimp collar

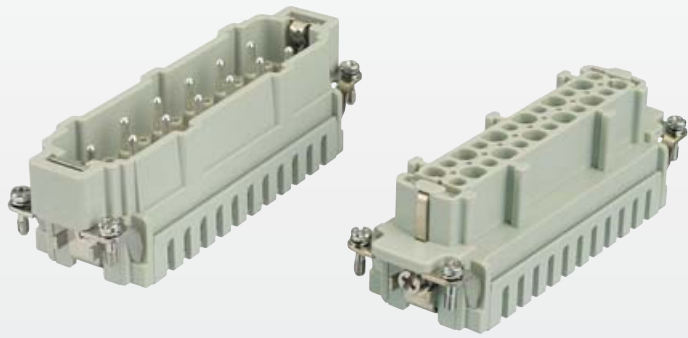
Identification		Part No.	M	Drawing	Dimensions in mm	
Hoods	Hood side-entry 	19 34 006 0521	25			
	Hood top-entry 	19 34 006 0421	25			
	Protection covers thermoplastic/metal 	09 30 016 5401 <b>09 30 016 5422</b>				
Housings	Housing bulkhead mounting 	09 34 006 0301	—	Panel cut out 82 x 35 mm 		
	Housing surface mounting 2 side-entries 	19 34 006 0271	25			
	Protection covers thermoplastic/metal 	<b>09 30 016 5405</b> <b>09 30 016 5425</b>				
	Hood cable to cable 	<b>19 34 006 0731</b> 19 34 006 0732	25 32			
	Protection cover metal 	09 30 016 5426				

Han Hv E

Number of contacts

10 +

+ 2 additional contacts for safe high voltage connections



Inserts

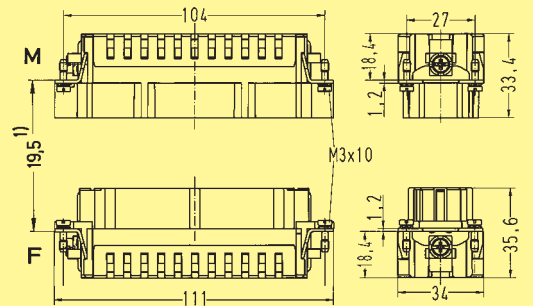
Identification	Series	Part No.		Drawing	Dimensions in mm
		Male insert (M)	Female insert (F)		

Cage-clamp terminal

Han®  
Hv ES

09 34 010 2616

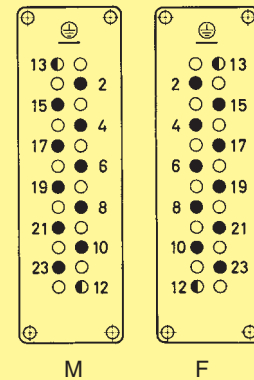
09 34 010 2716



<sup>1)</sup> Distance for contact max. 21 mm

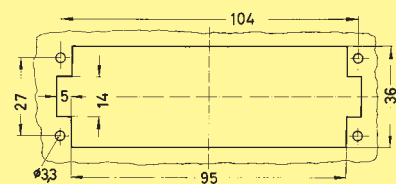
Contact arrangement View from termination side

Han® 10 Hv ES



- Operating contact
- ⦿ Relay contact
- Without contact

Panel cut out for inserts for use without hoods/housings



Stock items in bold type

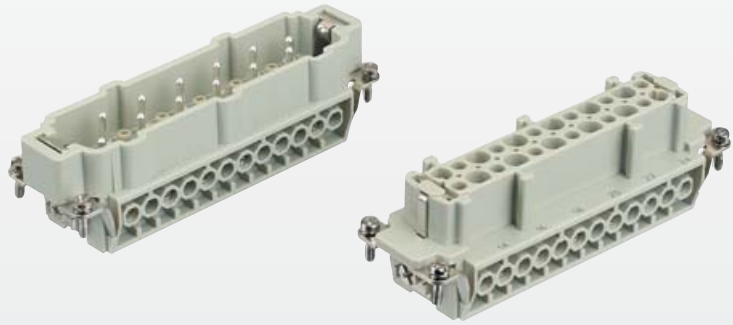
Identification	Part No.			Drawing	Dimensions in mm						
	Low construction	High construction	M								
Hoods	<b>Hoods side-entry</b> 	<b>19 30 024 1521</b> <b>19 30 024 1522</b>	<b>19 30 024 0527</b> <b>19 30 024 0528</b>	25 32  32 40							
	<b>Hoods top-entry</b> 	<b>19 30 024 1422</b>	<b>19 30 024 0427</b>   <b>19 30 024 0428</b>	32   40							
	<b>Protection covers for hoods thermoplastic/metal</b> 	<b>09 30 024 5401</b>  <b>09 30 024 5422</b>									
Housings	<b>Housing bulkhead mounting</b> 	<b>09 30 024 0301</b>		—	Panel cut out 108 x 35 mm 						
	<b>Housings surface mounting</b>	<b>19 30 024 1231</b>	<b>19 30 024 0232</b>	25 32	<table border="1"> <tr> <td>Blind way for one cable entry</td> <td>h</td> </tr> <tr> <td>Low construction</td> <td>56</td> </tr> <tr> <td>High construction</td> <td>81</td> </tr> </table>	Blind way for one cable entry	h	Low construction	56	High construction	81
	Blind way for one cable entry	h									
	Low construction	56									
	High construction	81									
	1 side-entry <b>19 30 024 1271</b>	<b>19 30 024 1271</b>	<b>19 30 024 0272</b>	25 32							
<b>Protection covers for housings bulkhead/surface mounting thermoplastic/metal</b> 	<b>09 30 024 5405</b>  <b>09 30 024 5425</b>										
<b>Hoods cable to cable</b> 	<b>19 30 024 1732</b>	<b>19 30 024 0737</b> <b>19 30 024 0738</b>	32 40	<table border="1"> <tr> <td></td> <td>h</td> </tr> <tr> <td>Low construction</td> <td>57.5</td> </tr> <tr> <td>High construction</td> <td>78.5</td> </tr> </table>		h	Low construction	57.5	High construction	78.5	
	h										
Low construction	57.5										
High construction	78.5										
<b>Protection cover for hoods metal</b> 	<b>09 30 024 5426</b>										

Han Hv E

Number of contacts

10, 16 +

+ 2 additional contacts for safe high voltage connections


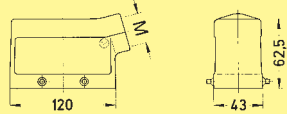

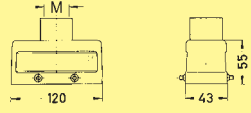

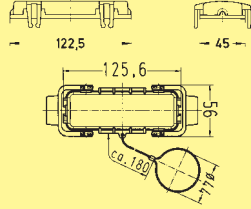

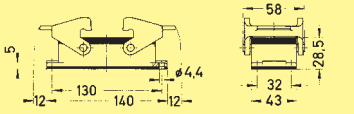

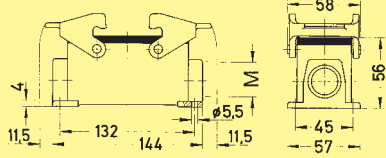

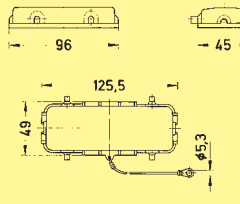

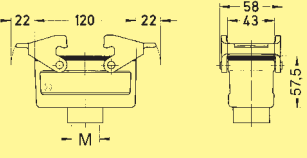

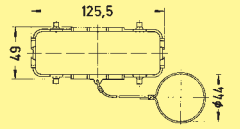


Inserts

Han Hv E

Identification	Series	Part No.		Drawing	Dimensions in mm
		Male insert (M)	Female insert (F)		
<p>Screw terminal</p>	Han Hv E®	09 34 010 2601	09 34 010 2701	<p>1) Distance for contact max. 21 mm</p> <p>Contact arrangement View from termination side</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Han® 10 Hv E</p> <p>M F</p> </div> <div style="text-align: center;"> <p>Han® 16 Hv E</p> <p>M F</p> </div> </div> <p>● Operating contact                      ○ Relay contact                      ○ Without contact</p>	
<p>Crimp terminal</p> <p>Order contacts separately</p> <p>Han Hv E® Crimp could also be used with a 24 B standard housing.</p>	Han Hv E®	09 34 010 2602	09 34 010 2702		
<p>Screw terminal</p>	Han Hv E®	09 34 016 2601	09 34 016 2701		

Identification	Wire gauge (mm²)	Part No.		Drawing	Dimensions in mm																															
		Male contacts	Female contacts																																	
<p>Han 10 Hv E    Han 16 Hv E</p> <p><b>Crimp contacts</b></p> <p>Operating contact silver plated</p>	0.5 0.75 1.0 1.5 2.5	<p><b>09 33 000 6121</b>  <b>09 33 000 6114</b>  <b>09 33 000 6105</b>  <b>09 33 000 6104</b>  <b>09 33 000 6102</b>  <b>09 33 000 6106</b>  <b>09 33 000 6107</b></p>	<p><b>09 33 000 6220</b>  <b>09 33 000 6214</b>  <b>09 33 000 6205</b>  <b>09 33 000 6204</b>  <b>09 33 000 6202</b>  <b>09 33 000 6206</b>  <b>09 33 000 6207</b></p>	<p>Operating contact Identification      Relay contact</p>	<p>Crimp contact identification</p> <table border="1"> <thead> <tr> <th>Identification</th> <th>Wire gauge</th> <th>Stripping length</th> </tr> </thead> <tbody> <tr> <td>no groove</td> <td>0.5 mm²</td> <td>AWG 20</td> <td>7.5 mm</td> </tr> <tr> <td>1 groove*</td> <td>0.75 mm²</td> <td>AWG 18</td> <td>7.5 mm</td> </tr> <tr> <td>1 groove</td> <td>1 mm²</td> <td>AWG 18</td> <td>7.5 mm</td> </tr> <tr> <td>2 grooves</td> <td>1.5 mm²</td> <td>AWG 16</td> <td>7.5 mm</td> </tr> <tr> <td>3 grooves</td> <td>2.5 mm²</td> <td>AWG 14</td> <td>7.5 mm</td> </tr> <tr> <td>wide groove</td> <td>3.0 mm²</td> <td>AWG 12</td> <td>7.5 mm</td> </tr> <tr> <td>no groove</td> <td>4 mm²</td> <td>AWG 12</td> <td>7.5 mm</td> </tr> </tbody> </table>	Identification	Wire gauge	Stripping length	no groove	0.5 mm²	AWG 20	7.5 mm	1 groove*	0.75 mm²	AWG 18	7.5 mm	1 groove	1 mm²	AWG 18	7.5 mm	2 grooves	1.5 mm²	AWG 16	7.5 mm	3 grooves	2.5 mm²	AWG 14	7.5 mm	wide groove	3.0 mm²	AWG 12	7.5 mm	no groove	4 mm²	AWG 12	7.5 mm
Identification	Wire gauge	Stripping length																																		
no groove	0.5 mm²	AWG 20	7.5 mm																																	
1 groove*	0.75 mm²	AWG 18	7.5 mm																																	
1 groove	1 mm²	AWG 18	7.5 mm																																	
2 grooves	1.5 mm²	AWG 16	7.5 mm																																	
3 grooves	2.5 mm²	AWG 14	7.5 mm																																	
wide groove	3.0 mm²	AWG 12	7.5 mm																																	
no groove	4 mm²	AWG 12	7.5 mm																																	
<p>Relay contact silver plated</p>	0.75-1 1.5 2.5	<p>09 33 000 6109                      09 33 000 6110                      09 33 000 6111</p>																																		
<p>2 x -</p>																																				
<p>Number of pieces per insert</p>																																				

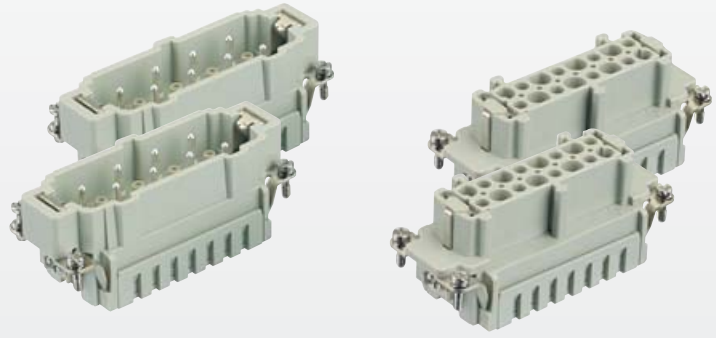
Identification		Part No.	M	Drawing	Dimensions in mm	
Hoods	Hood side-entry 	19 34 010 0521	25			
	Hood top-entry 	19 34 010 0422	32			
	Protection covers thermoplastic/metal 	<b>09 30 024 5401</b> <b>09 30 024 5422</b>				
Housings	Housing bulkhead mounting 	<b>09 34 010 0301</b>	—	Panel cut out 108 x 35 		
	Housing surface mounting 2 side-entries 	19 34 010 0271	25			
	Protection covers thermoplastic/metal 	<b>09 30 024 5405</b> <b>09 30 024 5425</b>				
	Hood cable to cable 	19 34 010 0732	32			
	Protection cover metal 	09 30 024 5426				

Han Hv E

Number of contacts

12 +

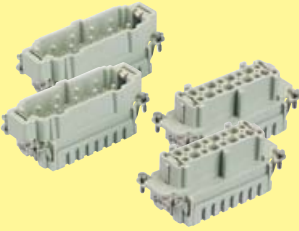
+ 4 additional contacts for safe high voltage connections



Inserts

Han Hv E

Cage-clamp terminal



Han® Hv ES

1-6

09 34 006 2616

09 34 006 2716

1-6

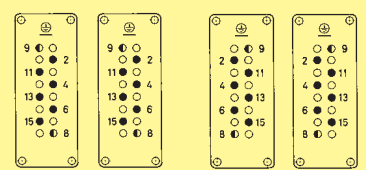
09 34 006 2616

09 34 006 2716

Dimensions for inserts page 04.16/04.18

Contact arrangement View from termination side

Han® 12 Hv ES

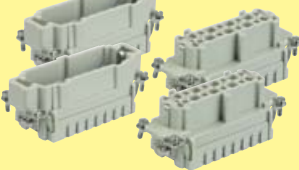


M

F

Crimp terminal

Order contacts separately



Han Hv E®

1-6

09 34 006 2602

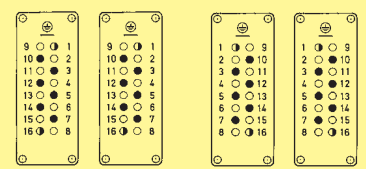
09 34 006 2702

1-6

09 34 006 2602

09 34 006 2702

Han® 12 Hv E



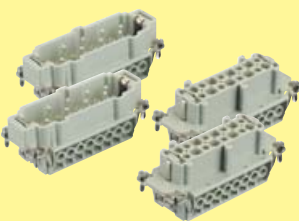
M

F

- Operating contact
- Relay contact
- Without contact

Han Hv E® Crimp could also be used with a 32 B standard housing.

Screw terminal



Han Hv E®

1-6

09 34 006 2601

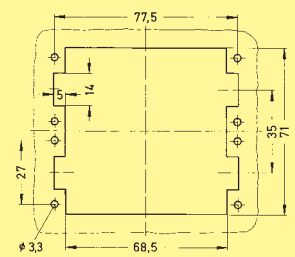
09 34 006 2701

1-6

09 34 006 2601

09 34 006 2701

Panel cut out for insert for use without hoods/housings



Wire gauge

Part No.

Identification

(mm²)

Male contacts

Female contacts

Drawing

Dimensions in mm

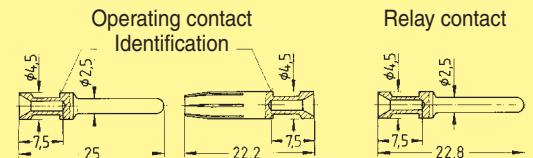
Han 12 Hv E/ Hv ES Crimp contacts

Operating contact silver plated

0.5  
0.75  
1.0  
1.5  
2.5  
3  
4

**09 33 000 6121**  
**09 33 000 6114**  
**09 33 000 6105**  
**09 33 000 6104**  
**09 33 000 6102**  
09 33 000 6106  
09 33 000 6107

**09 33 000 6220**  
**09 33 000 6214**  
**09 33 000 6205**  
**09 33 000 6204**  
**09 33 000 6202**  
09 33 000 6206  
09 33 000 6207




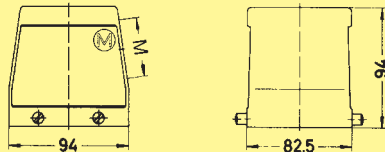

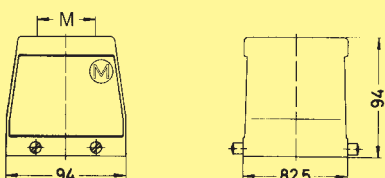
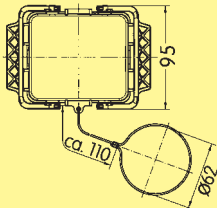

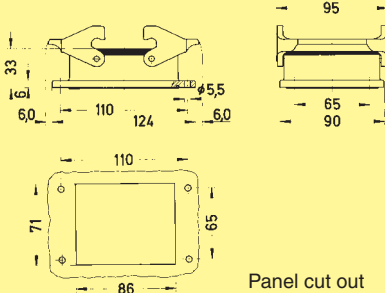

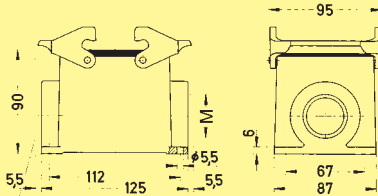

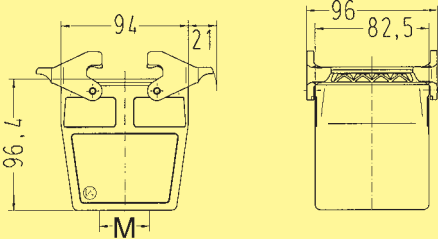
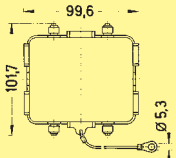
Crimp contact identification

Identification	Wire gauge	Stripping length
no groove	0.5 mm²	7.5 mm
1 groove*	0.75 mm²	7.5 mm
1 groove	1 mm²	7.5 mm
2 grooves	1.5 mm²	7.5 mm
3 grooves	2.5 mm²	7.5 mm
wide groove	3.0 mm²	7.5 mm
no groove	4 mm²	7.5 mm

\* on the back crimp collar

Number of pieces per assembly



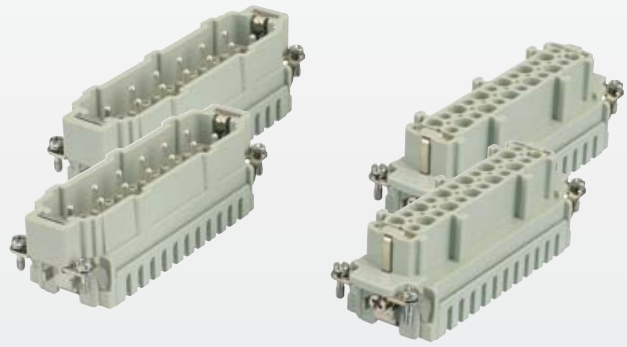
Identification		Part No.	M	Drawing	Dimensions in mm
Hoods	Hoods side-entry 	<b>19 30 032 0527</b> <b>19 30 032 0528</b> 19 30 032 0529	32 40 50		94 82,5
	Hoods top-entry 	<b>19 30 032 0427</b> <b>19 30 032 0428</b> 19 30 032 0429	32 40 50		94 82,5
	Protection cover for hoods	<b>09 30 032 5420</b>	—		95 ca. 110
Housings	Housing bulkhead mounting 	<b>09 30 032 0301</b>	—		95 65 90
	Housings surface mounting 	<b>19 30 032 0232</b> <b>19 30 032 0272</b> <b>19 30 032 0273</b>	1 x 32 2 x 32 2 x 40		95 67 87
	Hoods cable to cable 	<b>19 30 032 0738</b>	2 x 40		96 82,5
	Protection covers for housings	<b>09 30 032 5425</b>	—		1017 99,6 5,3

Han Hv E

Number of contacts

20, 32 +

+ 4 additional contacts for safe high voltage connections



Inserts

Han Hv E

Identification	Series	Part No.		Drawing	Dimensions in mm
		Male insert (M)	Female insert (F)		
<b>Cage-clamp terminal</b> 	Han® Hv ES			Dimensions for inserts page 04.20 / 04.22	
	1-10	09 34 010 2616	09 34 010 2716	Contact arrangement View from termination side	
<b>Crimp terminal</b> Order contacts separately  Han Hv E® Crimp could also be used with a 48 B standard housing.	Han Hv E®			Han® 20 Hv ES 	
	1-10	09 34 010 2602	09 34 010 2702	Han® 20 Hv E 	
<b>Screw terminal</b> 	Han Hv E®			Han® 32 Hv E 	
	1-10	09 34 010 2601	09 34 010 2701	<ul style="list-style-type: none"> <li>● Operating contact</li> <li>○ Relay contact</li> <li>○ Without contact</li> </ul> Panel cut out for inserts for use without hoods/housings see chapter 03 size 48 E.	

Identification	Wire gauge (mm²)	Part No.		Drawing	Dimensions in mm																															
		Male contacts	Female contacts																																	
<b>Crimp contacts</b>																																				
Han 20 Hv E 20 x 36 x	Operating contact silver plated 0.5 0.75 1.0 1.5 2.5	<b>09 33 000 6121</b> <b>09 33 000 6114</b> <b>09 33 000 6105</b> <b>09 33 000 6104</b> <b>09 33 000 6102</b>	<b>09 33 000 6220</b> <b>09 33 000 6214</b> <b>09 33 000 6205</b> <b>09 33 000 6204</b> <b>09 33 000 6202</b>		Operating contact Identification Relay contact																															
						Han 32 Hv E 24 x 36 x	3	09 33 000 6106	09 33 000 6206																											
							4	09 33 000 6107	09 33 000 6207																											
							Relay contact silver plated 0.75-1 1.5 2.5	0.75-1	09 33 000 6109																											
								1.5	09 33 000 6110																											
4 x -	2.5	09 33 000 6111																																		
Crimp contact identification <table border="1"> <thead> <tr> <th>Identification</th> <th>Wire gauge</th> <th>Stripping length</th> </tr> </thead> <tbody> <tr> <td>no groove</td> <td>0.5 mm²</td> <td>AWG 20</td> <td>7.5 mm</td> </tr> <tr> <td>1 groove*</td> <td>0.75 mm²</td> <td>AWG 18</td> <td>7.5 mm</td> </tr> <tr> <td>1 groove</td> <td>1 mm²</td> <td>AWG 18</td> <td>7.5 mm</td> </tr> <tr> <td>2 grooves</td> <td>1.5 mm²</td> <td>AWG 16</td> <td>7.5 mm</td> </tr> <tr> <td>3 grooves</td> <td>2.5 mm²</td> <td>AWG 14</td> <td>7.5 mm</td> </tr> <tr> <td>wide groove</td> <td>3.0 mm²</td> <td>AWG 12</td> <td>7.5 mm</td> </tr> <tr> <td>no groove</td> <td>4 mm²</td> <td>AWG 12</td> <td>7.5 mm</td> </tr> </tbody> </table>						Identification	Wire gauge	Stripping length	no groove	0.5 mm²	AWG 20	7.5 mm	1 groove*	0.75 mm²	AWG 18	7.5 mm	1 groove	1 mm²	AWG 18	7.5 mm	2 grooves	1.5 mm²	AWG 16	7.5 mm	3 grooves	2.5 mm²	AWG 14	7.5 mm	wide groove	3.0 mm²	AWG 12	7.5 mm	no groove	4 mm²	AWG 12	7.5 mm
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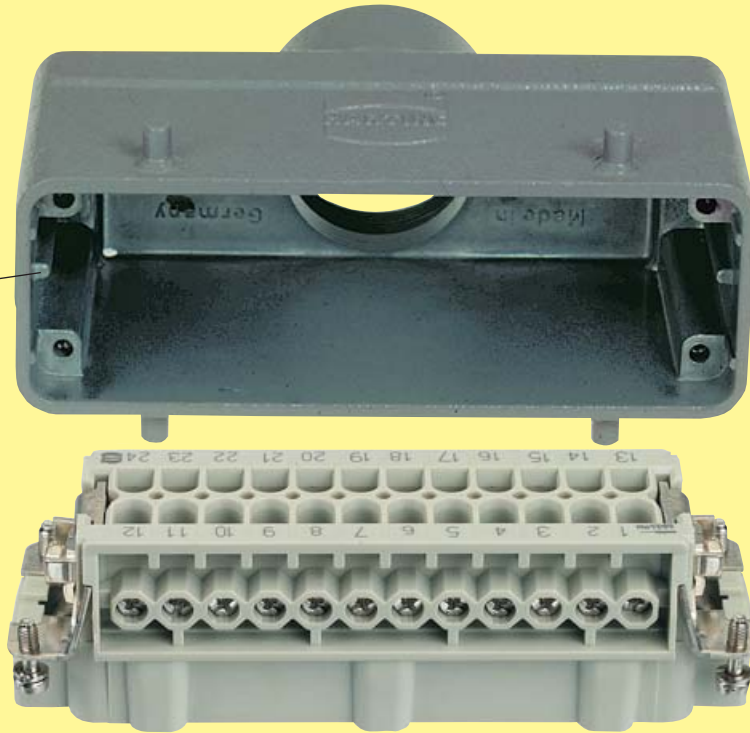
Identification	Part No.	M	Drawing	Dimensions in mm
Hoods	Hoods side-entry	<b>19 30 048 0548</b> 19 30 048 0549	40 50	
	Hoods top-entry	19 30 048 0448 19 30 048 0449	40 50	
Housings	Housings bulkhead mounting	with thermo-plastic cover <b>09 30 048 0301</b>	—	
		with metal cover <b>09 30 048 0317</b>	—	Panel cut out 
Housings	Housings surface mounting 2 side-entries	19 30 048 0292 19 30 048 0293	2 x 32 2 x 40	
		with thermo-plastic cover <b>19 30 048 0298</b>	2 x 40	

Han  
Hv E

## Standard Hood/Housing Han<sup>®</sup> B

Suitable for all Standard inserts (also Han<sup>®</sup> Hv ES)

Coding bar



## 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

Milled Coding bar

Insulation tape

Stop

