

Han® Hv ES / Han Hv E®

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Han
Hv E

Specifications

DIN VDE 0627
DIN VDE 0110
DIN EN 61 984

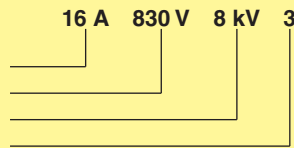
Approvals



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
- Relay contacts

600 V
250 V

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

Contacts

Material copper alloy

Surface - hard-silver plated
3 μm Ag

Contact resistance $\leq 3 \text{ m}\Omega$

Cage-clamp terminal
- mm^2 0.14 - 2.5
- 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 $-40^{\circ}\text{C} / +125^{\circ}\text{C}$

Degree of protection
acc. to DIN 40 050
for coupled connector IP 65

Further selection
of hoods/housings chapter 30 / chapter 31

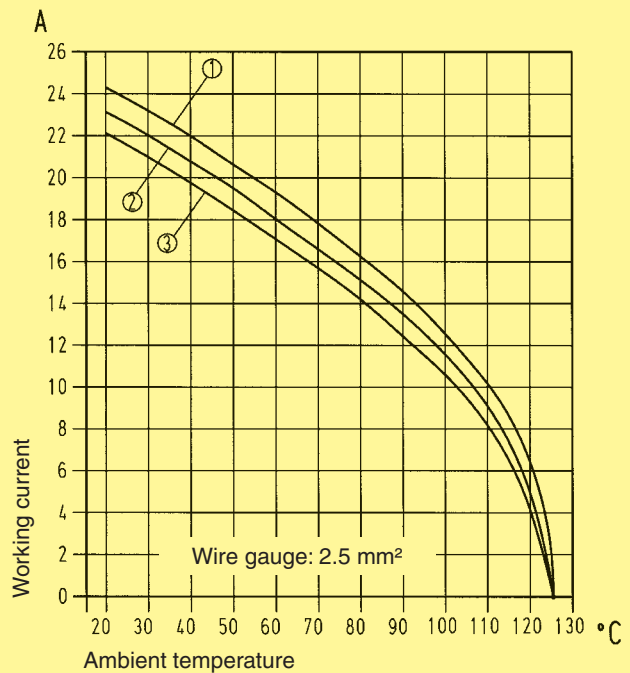
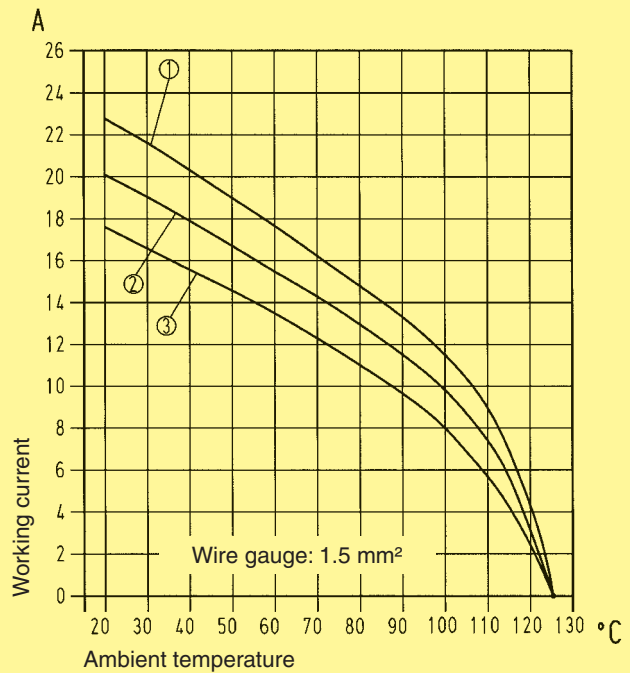
Accessories

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 605 12-5.



- 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

Working current	16 A	830 V	8 kV	3
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

Working current	16 A	400/690 V	6 kV	3
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 $-40^{\circ}\text{C} / +125^{\circ}\text{C}$
Flammability acc. to UL 94 V 0
Mechanical working life - Mating cycles ≥ 500

Contacts

Material copper alloy
Surface
- hard-silver plated 3 μm Ag
Contact resistance $\leq 1 \text{ m}\Omega$
Crimp terminal
- mm^2 0.5 - 4 mm^2
- AWG 20 - 12
Screw terminal
- mm^2 2.5 mm^2
- 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 $-40^{\circ}\text{C} / +125^{\circ}\text{C}$
Degree of protection acc. to DIN EN 60 529 for coupled connector IP 65

Further selection of hoods/housings chapter 30 / chapter 31

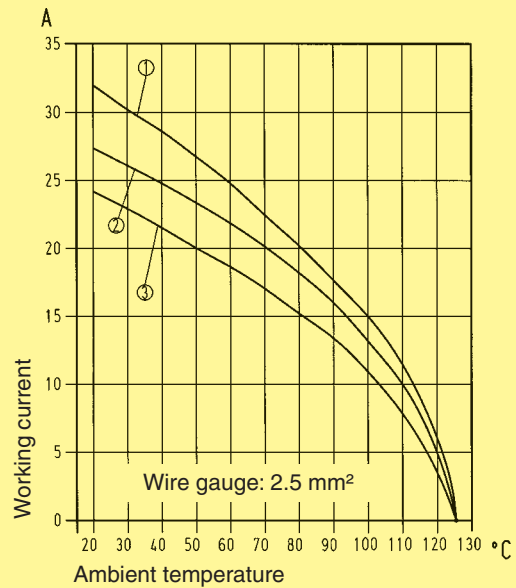
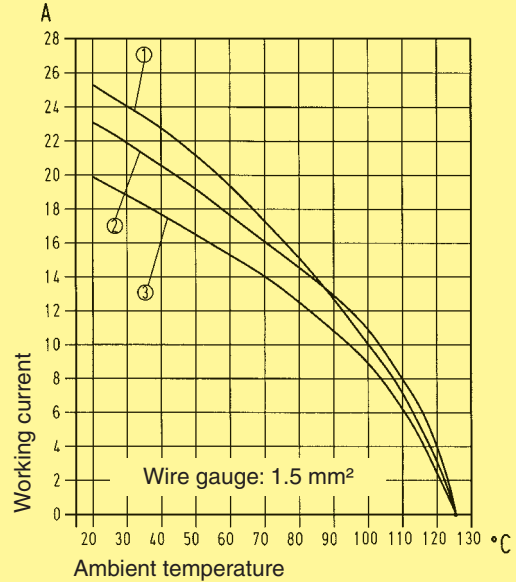
Accessories

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 605 12-5.



- 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:

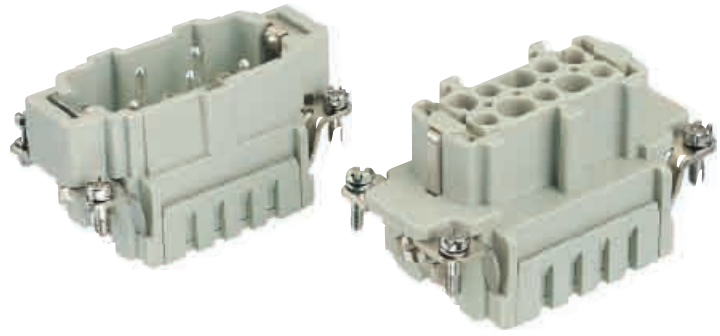
Type	Female contacts	Operating contacts	Relay contacts
Han® 3 Hv E	5	3	2
Han® 6 Hv E	8	6	2
Han® 10 Hv E	12	10	2
Han® 12 Hv E	16	12	4
Han® 16 Hv E	18	18	—
Han® 20 Hv E	24	20	4
Han® 32 Hv E	36	36	—

Han Hv E

Number of contacts

3 +

+ 2 additional contacts for safe high voltage connections



Inserts

Han
Hv E

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		<p>1) Distance for contacts max. 21 mm</p> <p>Contact arrangement View from termination side</p> <p>Han® 3 Hv ES</p> <p>● Operating contact ● Relay contact ○ Without contact</p> <p>Panel cut out for inserts for use without hoods/housings</p>

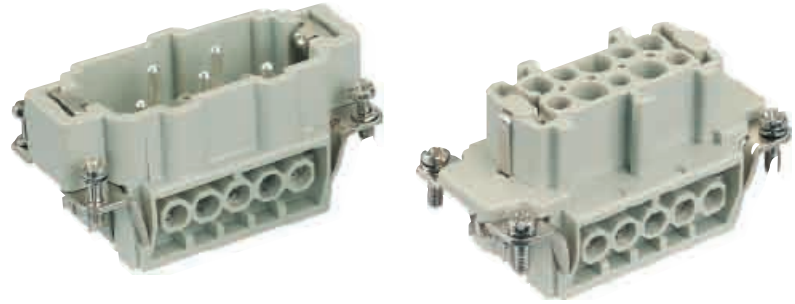
Identification	Part No.			Drawing	Dimensions in mm												
	Low construction	High construction	M														
Hoods	Hoods side-entry 	19 30 010 1520 19 30 010 1521	19 30 010 0527	20 25 32													
	Hoods top-entry 	19 30 010 1420 19 30 010 1421	19 30 010 0427	20 25 32													
	Protection covers for hoods thermoplastic/metal 	09 30 010 5401 09 30 010 5423															
Housings	Housing bulkhead mounting 	09 30 010 0301		-	Panel cut out 60 x 35 mm 												
	Housings surface mounting 1 side-entry 	19 30 010 1230 19 30 010 1231	19 30 010 0231	20 25													
	2 side-entries 	19 30 010 1270	19 30 010 0271 19 30 010 0272	20 25 32	Blind way for one cable entry <table border="1"> <thead> <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>		a	b	h	Low construction	40	52	54	High construction	45	57	81
		a	b	h													
	Low construction	40	52	54													
High construction	45	57	81														
Protection covers for housings bulkhead/surface mounting thermoplastic/metal 	09 30 010 5407 09 30 010 5425																
Hoods cable to cable 	19 30 010 1730	19 30 010 0736 19 30 010 0737	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																
Protection cover for hoods cable to cable metal 	09 30 010 5427																

Han Hv E

Number of contacts

3 +

+ 2 additional contacts for safe high voltage connections



Inserts

Han Hv E


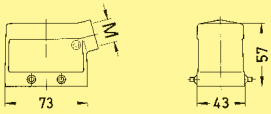

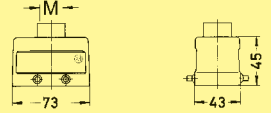

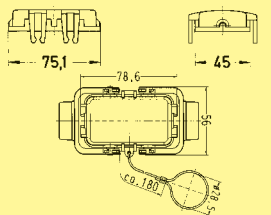

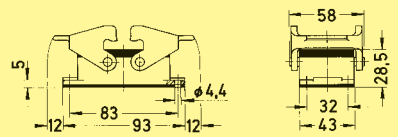

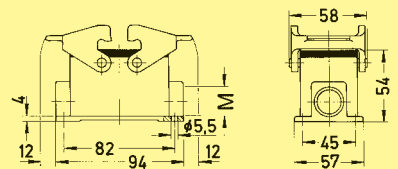
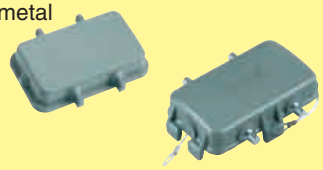
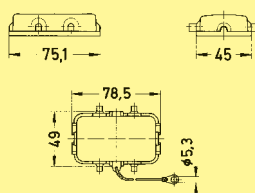

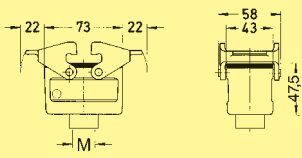

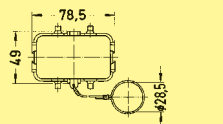
Identification	Series	Part No.		Drawing	Dimensions in mm
		Male insert (M)	Female insert (F)		
<p>Screw terminal</p>	Han Hv E®	09 34 003 2601	09 34 003 2701	<p>1) Distance for contact max. 21 mm Contact arrangement View from termination side</p> <p>Han® 3 Hv E</p> <p>● Operating contact ○ Relay contact ○ Without contact</p> <p>Panel cut out for inserts for use without hoods/housings</p>	
<p>Crimp terminal</p> <p>Order contacts separately</p> <p>Han Hv E® Crimp could also be used with a 10 B standard housing.</p>	Han Hv E®	09 34 003 2602	09 34 003 2702		

Identification	Wire gauge (mm²)	Part No.		Drawing	Dimensions in mm																															
		Male contacts	Female contacts																																	
<p>Han 3 Hv E</p> <p>Crimp contacts</p> <p>Operating contact silver plated</p> <p>3 x </p> <p>5 x </p> <p>Relay contact silver plated</p> <p>2 x </p>	<p>0.5</p> <p>0.75</p> <p>1.0</p> <p>1.5</p> <p>2.5</p> <p>3</p> <p>4</p> <p>0.75-1</p> <p>1.5</p> <p>2.5</p>	<p>09 33 000 6121</p> <p>09 33 000 6114</p> <p>09 33 000 6105</p> <p>09 33 000 6104</p> <p>09 33 000 6102</p> <p>09 33 000 6106</p> <p>09 33 000 6107</p> <p>09 33 000 6109</p> <p>09 33 000 6110</p> <p>09 33 000 6111</p>	<p>09 33 000 6220</p> <p>09 33 000 6214</p> <p>09 33 000 6205</p> <p>09 33 000 6204</p> <p>09 33 000 6202</p> <p>09 33 000 6206</p> <p>09 33 000 6207</p>	<p>Operating contact Identification</p> <p>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> <p>* on the back crimp collar</p>	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																																	
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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																																	

04
14

Number of pieces per insert

Stock items in bold type

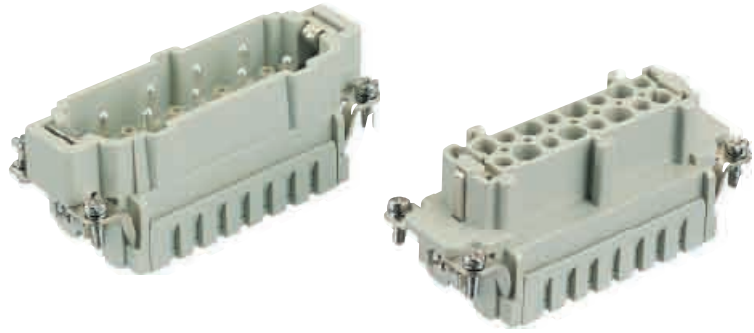
Identification		Part No.	M	Drawing	Dimensions in mm
Hoods	Hood side-entry 	19 34 003 0520	20		
	Hood top-entry 	19 34 003 0420 19 34 003 0421	20 25		
	Protection covers thermoplastic/metal 	09 30 010 5401 09 30 010 5423			
Housings	Housing bulkhead mounting 	09 34 003 0301	—	Panel cut out 60 x 35 mm 	
	Housing surface mounting 2 side-entries 	19 34 003 0270	20		
	Protection covers thermoplastic/metal 	09 30 010 5407 09 30 010 5425			
	Hood cable to cable 	19 34 003 0730 19 34 003 0731	20 25		
	Protection cover metal 	09 30 010 5427			

Han Hv E

Number of contacts

6 +

+ 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)		
Cage-clamp terminal	Han® Hv ES	09 34 006 2616	09 34 006 2716		<p>1) Distance for contact max. 21 mm</p> <p>Contact arrangement View from termination side</p> <p>Han® 6 Hv ES</p> <p>● Operating contact ◐ Relay contact ○ Without contact</p> <p>Panel cut out for inserts for use without hoods/housings</p>

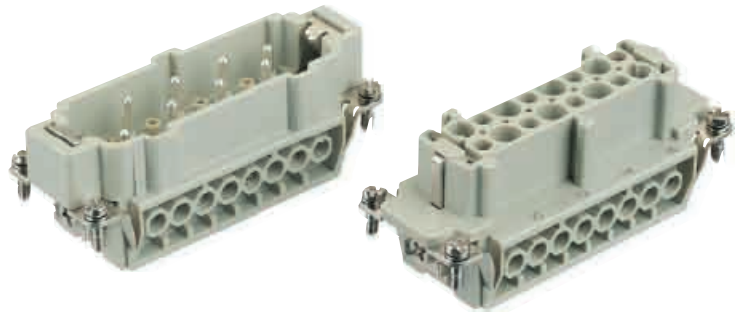
Identification	Part No.			Drawing	Dimensions in mm
	Low construction	High construction	M		
Hoods	Hoods side-entry 	19 30 016 1521 19 30 016 1522		25 32	
			19 30 016 0527 19 30 016 0528	32 40	
	Hoods top-entry 	19 30 016 1421 19 30 016 1422		25 32	
			19 30 016 0427 19 30 016 0428	32 40	
	Protection covers for housings thermoplastic/metal 	09 30 016 5401			
		09 30 016 5422			
Housings	Housing bulkhead mounting 	09 30 016 0301		—	Panel cut out 82 x 35 mm
	Housings surface mounting	1 side-entry 19 30 016 1231		25 32	
		2 side-entries 19 30 016 1271	19 30 016 0232 19 30 016 0271 19 30 016 0272	25 32	
	Protection covers for housings bulkhead mounting thermoplastic/metal 	09 30 016 5405			
		09 30 016 5425			
	Hoods cable to cable 	19 30 016 1731	19 30 016 0736 19 30 016 0737	25 32	
Protection cover for hoods cable to cable metal 	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)																				
<p>Screw terminal</p>	Han Hv E®	09 34 006 2601	09 34 006 2701	<p>1) Distance for contact max. 21 mm</p> <p>Contact arrangement View from termination side</p> <table border="1"> <thead> <tr> <th colspan="3">Han® 6 Hv E</th> </tr> <tr> <th></th> <th></th> <th>h</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Screw terminal</td> <td>M</td> <td>32.4</td> </tr> <tr> <td>F</td> <td>34.6</td> </tr> <tr> <td rowspan="2">Crimp terminal</td> <td>M</td> <td>34.2</td> </tr> <tr> <td>F</td> <td>37</td> </tr> </tbody> </table>	Han® 6 Hv E					h	Screw terminal	M	32.4	F	34.6	Crimp terminal	M	34.2	F	37			
Han® 6 Hv E																							
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Screw terminal	M	32.4																					
	F	34.6																					
Crimp terminal	M	34.2																					
	F	37																					
<p>Crimp terminal</p> <p>Order contacts separately</p> <p>Han Hv E® Crimp could also be used with a 16 B standard housing.</p>	Han Hv E®	09 34 006 2602	09 34 006 2702																				


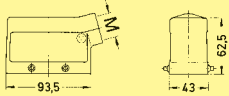

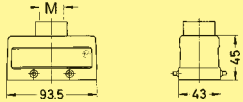

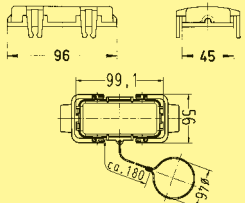

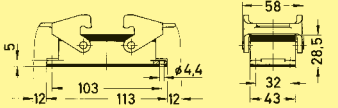

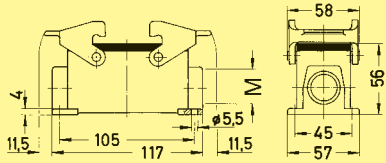

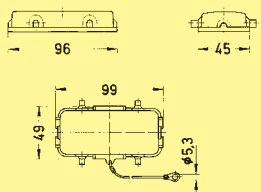

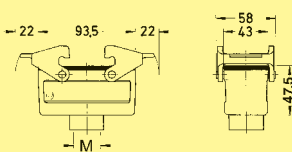

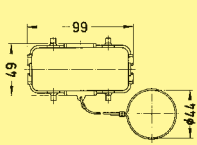
Identification	Wire gauge (mm²)	Part No.		Drawing	Dimensions in mm																															
		Male contacts	Female contacts																																	
<p>Crimp contacts</p> <p>Operating contact silver plated</p> <p>6 x </p> <p>8 x </p> <p>Relay contact silver plated</p> <p>2 x </p>	<p>0.5</p> <p>0.75</p> <p>1.0</p> <p>1.5</p> <p>2.5</p> <p>3</p> <p>4</p> <p>0.75-1</p> <p>1.5</p> <p>2.5</p>	<p>09 33 000 6121</p> <p>09 33 000 6114</p> <p>09 33 000 6105</p> <p>09 33 000 6104</p> <p>09 33 000 6102</p> <p>09 33 000 6106</p> <p>09 33 000 6107</p> <p>09 33 000 6109</p> <p>09 33 000 6110</p> <p>09 33 000 6111</p>	<p>09 33 000 6220</p> <p>09 33 000 6214</p> <p>09 33 000 6205</p> <p>09 33 000 6204</p> <p>09 33 000 6202</p> <p>09 33 000 6206</p> <p>09 33 000 6207</p>	<p>Operating contact Identification</p> <p>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	
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no groove	4 mm²	AWG 12	7.5 mm																																	

04
18

Number of pieces per insert

* on the back crimp collar

Stock items in bold type

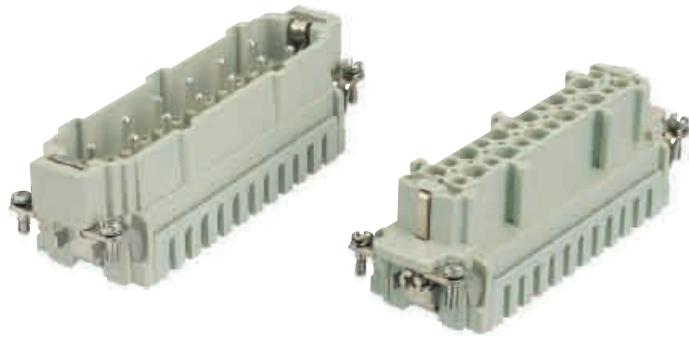
Identification		Part No.	M	Drawing	Dimensions in mm	
Hoods	Hood side-entry 	19 34 006 0521	25			
	Hood top-entry 	19 34 006 0421	25			
	Protection covers thermoplastic/metal 	09 30 016 5401 09 30 016 5422				
Housings	Housing bulkhead mounting 	09 34 006 0301	—	Panel cut out 82 x 35 mm 		
	Housing surface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

Han
Hv E

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	<p>1) Distance for contact max. 21 mm</p> <p>Contact arrangement View from termination side</p> <div style="text-align: center;"> <p>Han® 10 Hv ES</p> <p>M F</p> <ul style="list-style-type: none"> ● Operating contact ◐ Relay contact ○ Without contact </div> <p>Panel cut out for inserts for use without hoods/housings</p>	

Stock items in bold type

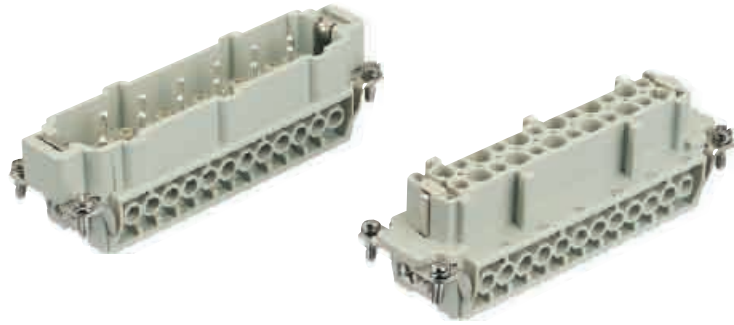
Identification	Part No.		M	Drawing	Dimensions in mm							
	Low construction	High construction										
Hoods	Hoods side-entry 	19 30 024 1521 19 30 024 1522	25 32									
	Hoods top-entry 	19 30 024 1422	32 40									
	Protection covers for hoods thermoplastic/metal 	09 30 024 5401 09 30 024 5422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

Han Hv E

Number of contacts

10, 16 +

+ 2 additional contacts for safe high voltage connections



Inserts


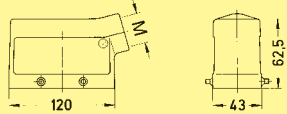

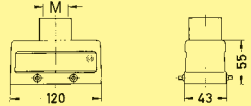
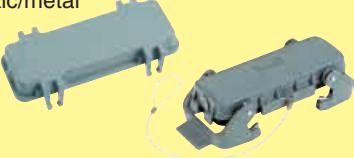
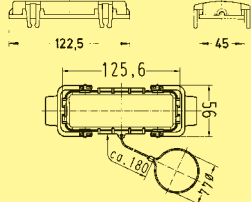

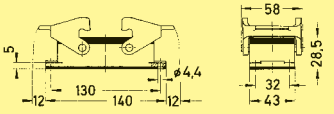

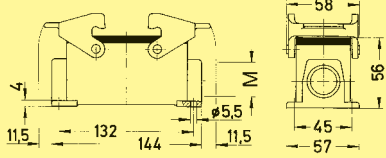

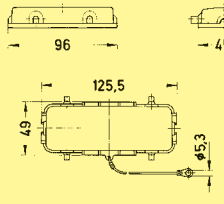

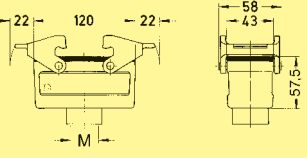

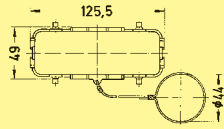
Han Hv E

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</p> </div> <div style="text-align: center;"> <p>Han® 16 Hv E</p> <p>M</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		
Han 10 Hv E	Han 16 Hv E	Crimp contacts				
10 x 18 x	18 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		
12 x 18 x	18 x	2.5	09 33 000 6102	09 33 000 6202		
		3	09 33 000 6106	09 33 000 6206		
		4	09 33 000 6107	09 33 000 6207		
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			

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

* on the back crimp collar

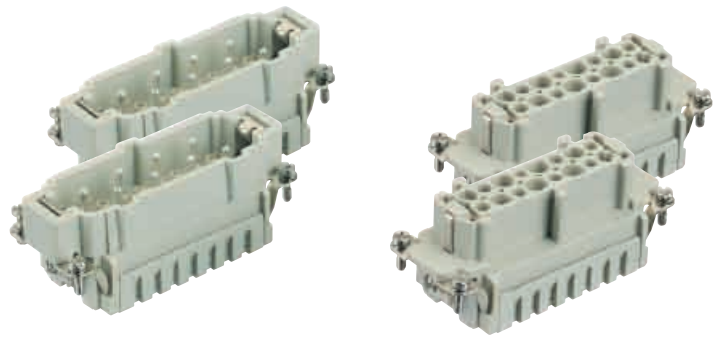
Identification		Part No.	M	Drawing	Dimensions in mm	
Hoods	Hood side-entry 	19 34 010 0521	25			
	Hood top-entry 	19 34 010 0422	32			
	Protection covers thermoplastic/metal 	09 30 024 5401 09 30 024 5422				
Housings	Housing bulkhead mounting 	09 34 010 0301	—	Panel cut out 108 x 35 		
	Housing surface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

Identification	Series	Part No.		Drawing	Dimensions in mm								
		Male insert (M)	Female insert (F)										
Cage-clamp terminal 	Han® Hv ES			Dimensions for inserts page 04.16/04.18									
	1-6	09 34 006 2616	09 34 006 2716	Contact arrangement View from termination side									
	1-6	09 34 006 2616	09 34 006 2716	Han® 12 Hv ES <table border="1"> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>M</td> <td>F</td> <td>M</td> <td>F</td> </tr> </table>						M	F	M	F
M	F	M	F										
Crimp terminal Order contacts separately 	Han Hv E®			Han® 12 Hv E <table border="1"> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>M</td> <td>F</td> <td>M</td> <td>F</td> </tr> </table>						M	F	M	F
	M	F	M	F									
1-6	09 34 006 2602	09 34 006 2702	<ul style="list-style-type: none"> ● Operating contact ○ Relay contact ○ Without contact 										
1-6	09 34 006 2602	09 34 006 2702	Panel cut out for insert for use without hoods/housings 										
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										


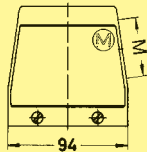
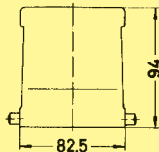

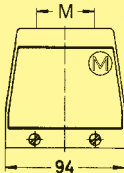
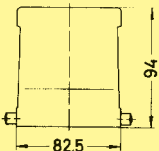
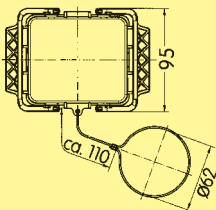

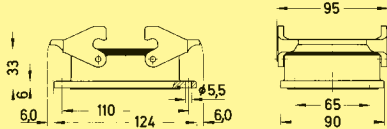
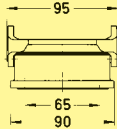

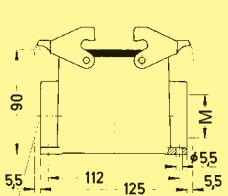
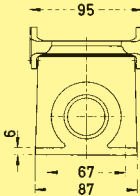

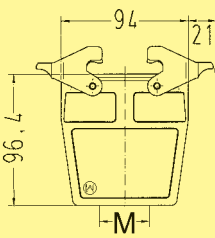
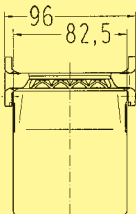
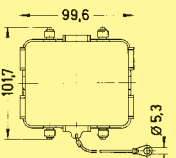
Identification	Wire gauge (mm²)	Part No.		Drawing	Dimensions in mm																														
		Male contacts	Female contacts																																
Han 12 Hv E/ Hv ES 12 x 16 x 4 x	Operating contact silver plated 	0.5	09 33 000 6121	09 33 000 6220	 Operating contact Identification Relay contact Crimp contact identification																														
		0.75	09 33 000 6114	09 33 000 6214																															
		1.0	09 33 000 6105	09 33 000 6205																															
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no groove	4 mm²	AWG 12	7.5 mm																																

04
24

Number of pieces per assembly

* on the back crimp collar

Stock items in bold type

Identification		Part No.	M	Drawing	Dimensions in mm
Hoods	Hoods side-entry 	19 30 032 0527 19 30 032 0528 19 30 032 0529	32 40 50		
	Hoods top-entry 	19 30 032 0427 19 30 032 0428 19 30 032 0429	32 40 50		
	Protection cover for hoods	09 30 032 5420	—		
Housings	Housing bulkhead mounting 	09 30 032 0301	—		
	Housings surface mounting 	19 30 032 0232 19 30 032 0272 19 30 032 0273	1 x 32 2 x 32 2 x 40		
	Hoods cable to cable 	19 30 032 0738	2 x 40		
	Protection covers for housings	09 30 032 5425	—		

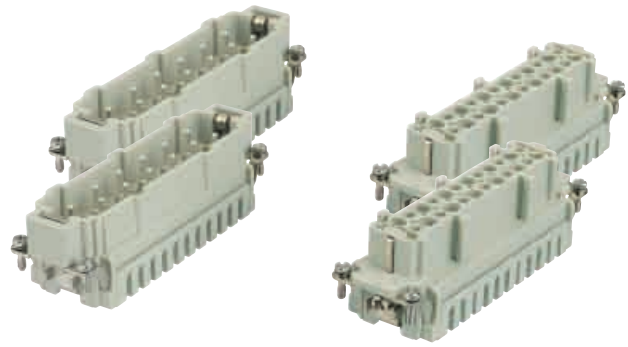
Han
Hv E

Stock items in bold type

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)		
Cage-clamp terminal 	Han® Hv ES			Dimensions for inserts page 04.20 / 04.22 Contact arrangement View from termination side Han® 20 Hv ES	
	1-10	09 34 010 2616	09 34 010 2716		
Crimp terminal Order contacts separately 	Han Hv E®			Han® 20 Hv E	
	1-10	09 34 010 2602	09 34 010 2702		
Screw terminal 	Han Hv E®			Han® 32 Hv E	
	1-10	09 34 010 2601	09 34 010 2701		
		1-10	09 34 010 2601	09 34 010 2701	
		1-16	09 34 016 2601	09 34 016 2701	
		1-16	09 34 016 2601	09 34 016 2701	

- Operating contact
- Relay contact
- Without contact

Panel cut out for inserts for use without hoods/housings see chapter 03 size 48 E.


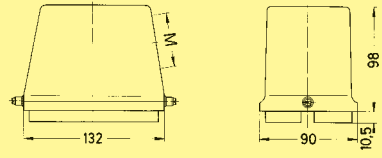

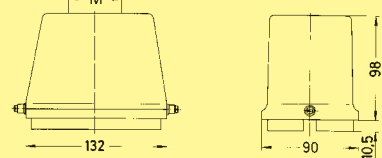
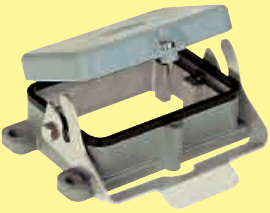
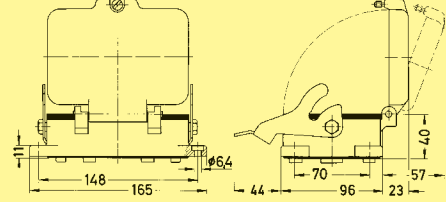
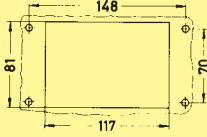

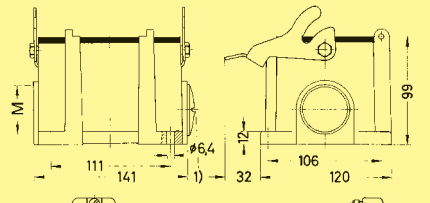
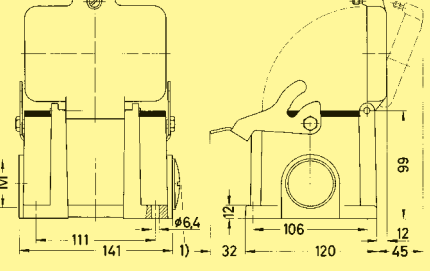
Identification	Wire gauge (mm²)	Part No.		Drawing	Dimensions in mm			
		Male contacts	Female contacts					
Crimp contacts								
Han 20 Hv E	Operating contact silver plated 0.5 0.75 1.0 1.5 2.5 3 4	09 33 000 6121 09 33 000 6114 09 33 000 6105 09 33 000 6104 09 33 000 6102 09 33 000 6106 09 33 000 6107	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		Operating contact Identification Relay contact			
20 x 36 x								
24 x 36 x								
4 x -						Relay contact silver plated 0.75-1 1.5 2.5		

Crimp contact identification

Identification	Wire gauge	Stripping length
no groove	0.5 mm²	AWG 20
1 groove*	0.75 mm²	AWG 18
1 groove	1 mm²	AWG 18
2 grooves	1.5 mm²	AWG 16
3 grooves	2.5 mm²	AWG 14
wide groove	3.0 mm²	AWG 12
no groove	4 mm²	AWG 12

* on the back crimp collar

Number of pieces per assembly

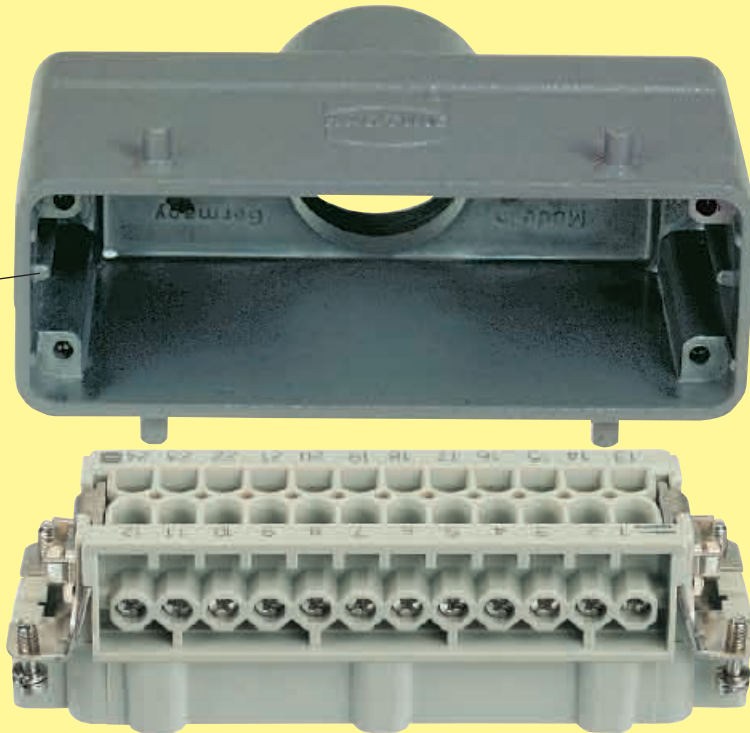
Identification	Part No.	M	Drawing	Dimensions in mm	
Hoods	Hoods side-entry 	19 30 048 0548 19 30 048 0549	40 50		
	Hoods top-entry 	19 30 048 0448 19 30 048 0449	40 50		
Housings	Housings bulkhead mounting 	with thermo-plastic cover 09 30 048 0301	—		
		with metal cover 09 30 048 0317	—	Panel cut out 	
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 19 30 048 0298	2 x 40		1) Blind grommet

Han
Hv E

Standard Hood/Housing Han[®] B

Suitable for all Standard inserts (also Han[®] Hv ES)

Coding bar



Special Hood/Housing Han Hv E[®]

Han Hv E[®] inserts may be used together with the corresponding Han Hv E[®] hoods/housings only

Milled Coding bar

Insulation tape

Coding pin

