

Han E[®] / Han[®] ES / Han[®] ESS / Han[®] EE

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Han
E/EE

Specifications

DIN VDE 0627
DIN VDE 0110

Approvals

, SEV

Inserts

Number of contacts	6, 10, 16, 24, 32 (2 x 16), 48 (2 x 24) + PE
Working current (see current carrying capacity)	16 A max.
Working voltage	400 V
Test voltage U_{rms}	3 kV
Pollution degree	3 (C)
Insulation resistance	$\geq 10^{10} \Omega$
Material	Polycarbonate
Temperature range	-40 °C ... +125 °C
Flammability acc. to UL 94	V 0
Mechanical working life	
- Mating cycles	≥ 500
Working voltage acc. to UL/CSA	600 V

Contacts

Material	copper alloy
Surface	
- hard-silver plated	3 μm Ag
- hard-gold plated	2 μm Au over 3 μm Ni
Contact resistance	$\leq 1 \text{ m}\Omega$
Crimp terminal	
- mm ²	0.5 - 4.0 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	steel, zinc plated/Han-Easy Lock [®]
Hoods/Housings sealing	NBR
Temperature range	-40 °C ... +125 °C
Degree of protection acc. to DIN 40 050 for coupled connector	IP 65
Further selection of hoods/housings	chapter 30

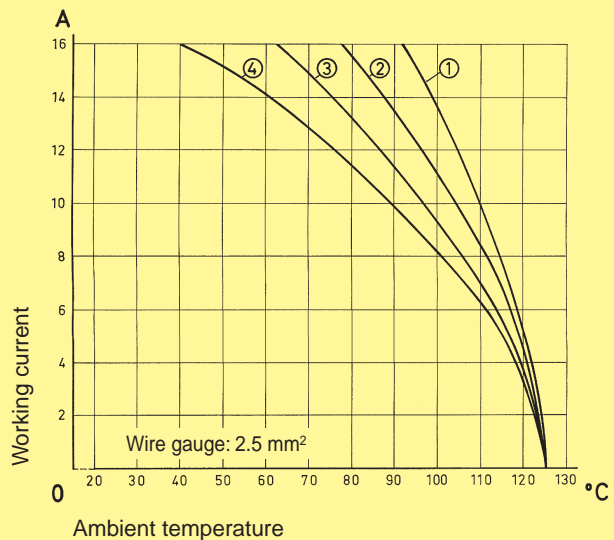
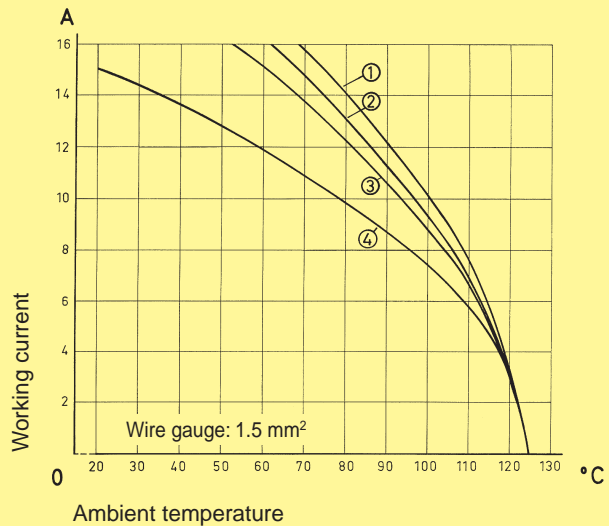
Accessories

Crimping tools	chapter 12
Cable clamps	chapter 40
Coding of Hoods/Housings	chapter 40
Label acc. to CSA-approval	chapter 40
Han-Snap	chapter 11
Test connectors	chapter 20
Special insert fixing screws	chapter 20

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 6 E
- ② Han 10 E
- ③ Han 16 E
- ④ Han 24 E

Specifications
DIN VDE 0627
DIN VDE 0110

Approvals

Inserts

Number of contacts	10, 18, 32, 46, 64 (2 x 32), 92 (2 x 46) + PE
Working current (see current carrying capacity)	16 A max.
Working voltage	500 V
Test voltage U_{rms}	3 kV
Pollution degree	3 (C)
Insulation resistance	$\geq 10^{10} \Omega$
Material	Polycarbonate
Temperature range	- 40 °C ... +125 °C
Flammability acc. to UL 94	V 0
Mechanical working life	
- Mating cycles	≥ 500
Working voltage acc. to UL/CSA	600 V

Contacts

Material	copper alloy
Surface	
- hard-silver plated	3 μm Ag
- hard-gold plated	2 μm Au over 3 μm Ni
Contact resistance	$\leq 1 \text{ m}\Omega$
Crimp terminal	
- mm^2	0.5 - 4.0 mm^2
- AWG	20 - 12

Hoods/Housings

Material	die cast aluminium
Surface	powder-coated RAL 7037
Locking element	steel, zinc plated/Han-Easy Lock®
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Degree of protection acc. to DIN 40 050 for coupled connector	IP 65

Further selection
of hoods/housings chapter 30

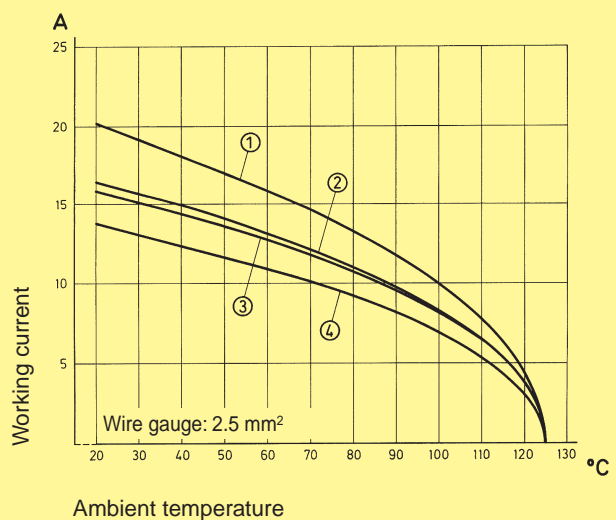
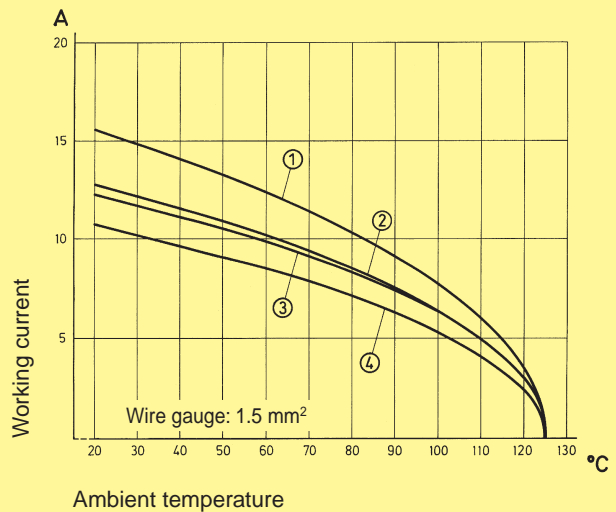
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- ① Han 10 EE
- ② Han 18 EE
- ③ Han 32 EE
- ④ Han 46 EE

Specifications

DIN VDE 0627
DIN VDE 0110

Approvals

, SEV

Inserts

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Temperature range	- 40 °C ... +125 °C
Flammability acc. to UL 94	V 0
Mechanical working life	
- Mating cycles	≥ 500
Working voltage acc. to UL/CSA	600 V

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 mm^2
- AWG	26 - 14

Hoods/Housings

Material	die cast aluminium
Surface	powder-coated RAL 7037
Locking element	steel, zinc plated/Han-Easy Lock®
Hoods/housings sealing	NBR
Temperature range	- 40 °C ... +125 °C
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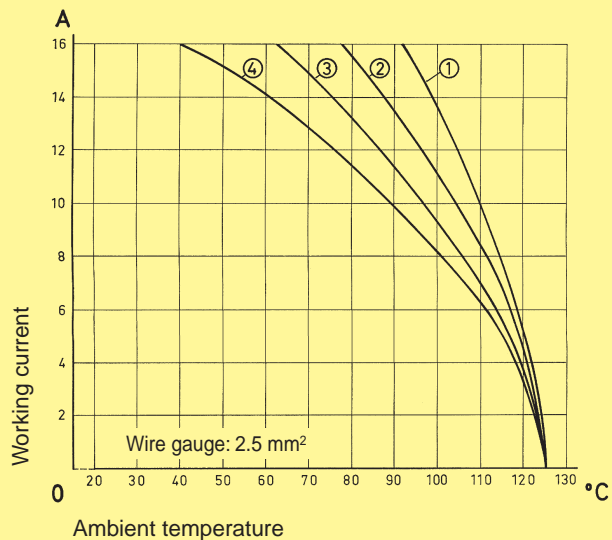
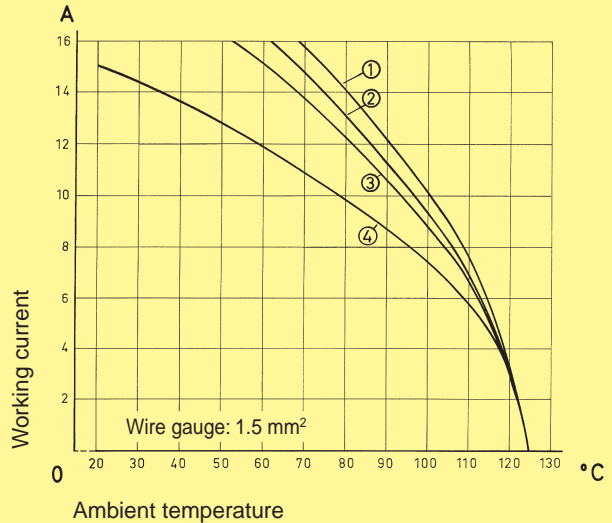
Accessories

Cable clamps	chapter 40
Coding of hoods/housings	chapter 40
Label acc. to CSA-approval	chapter 40
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Special insert fixing screws	chapter 20

Current carrying capacity

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Control and test procedures according to DIN IEC 60 512-3.



- ① Han 6 ES
- ② Han 10 ES
- ③ Han 16 ES
- ④ Han 24 ES

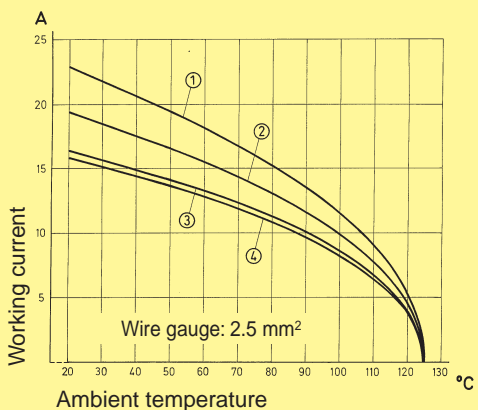
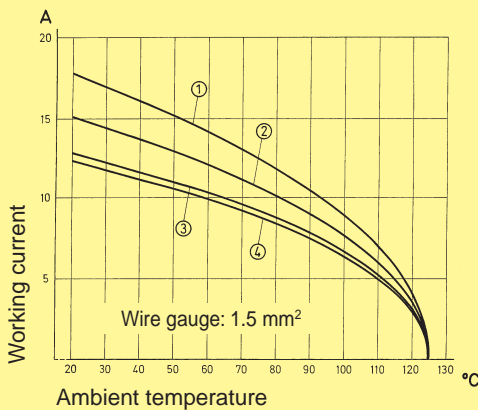
Features:

- 2 termination points per contact
- Termination: Cage-clamp
- Suitable for standard hoods/housings size B
- High construction hoods/housings are necessary
- No special tools necessary
- Bridges are made by using a simple screw driver
- Vibration resistant
- Ideal as motor connector as it offers the possibility to create star and delta bridges

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 6 ESS
- ② Han 10 ESS
- ③ Han 16 ESS
- ④ Han 24 ESS

Specifications

DIN VDE 0627
DIN VDE 0110

Approvals



Inserts

Number of contacts	6, 10, 16, 24, 32 (2 x 16), 48 (2 x 24) + PE
Working current (see current carrying capacity)	16 A max.
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Han
E/EE

Contacts

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Surface	
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Contact resistance	$\leq 3 \text{ m}\Omega$
Cage-clamp terminal	
- mm^2	0.14 - 2.5 mm^2
- AWG	26 - 14

Hoods/Housings

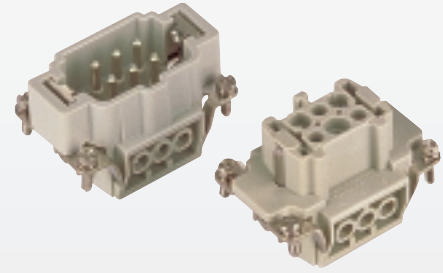
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Han-Snap	chapter 11
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Special insert fixing screws	chapter 20

Number of contacts

6 +



Inserts

Han E / EE

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

Screw terminal with wire protection

Han E			
		09 33 006 2601	09 33 006 2701

Cage-clamp terminal

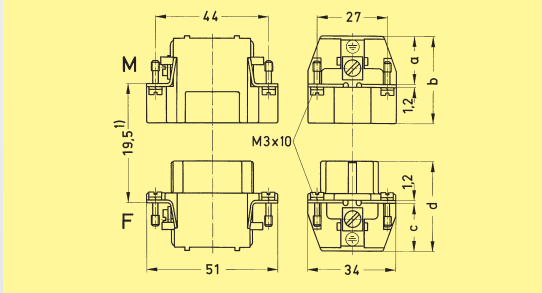
Han ES			
		09 33 006 2616	09 33 006 2716

Cage-clamp terminal two terminals per contact

Han ESS			
		09 33 006 2672	09 33 006 2772

Crimp terminal
Order contacts separately

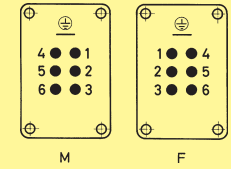
Han E			
		09 33 006 2602	09 33 006 2702



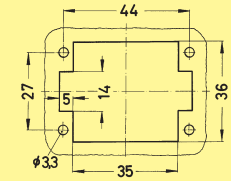
¹⁾ Distance for contact max. 21 mm

	a	b	c	d
Han E	20	35	21	37
Han ES	21	36	19	35
Han ESS	34	49	32	49

Contact arrangement View from termination side



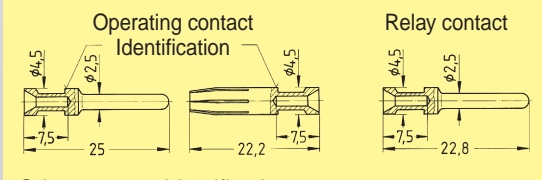
Panel cut out for inserts for use without hoods/housings



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

Crimp contacts
Power contacts
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
3	09 33 000 6106	09 33 000 6206
4	09 33 000 6107	09 33 000 6207



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

* on the back crimp collar

gold plated

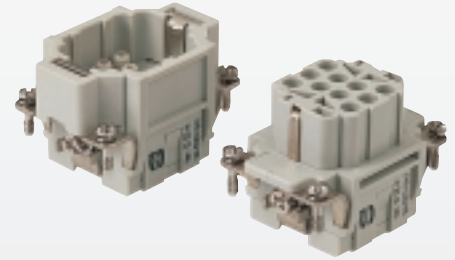
Relay contact silver plated

0.5	09 33 000 6122	09 33 000 6222
0.75	09 33 000 6115	09 33 000 6215
1.0	09 33 000 6118	09 33 000 6218
1.5	09 33 000 6116	09 33 000 6216
2.5	09 33 000 6123	09 33 000 6223
4.0	09 33 000 6119	09 33 000 6221
0.75-1	09 33 000 6109	
1.5	09 33 000 6110	
2.5	09 33 000 6111	

Stock items in bold type

Number of contacts

10 +



Inserts


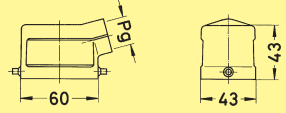
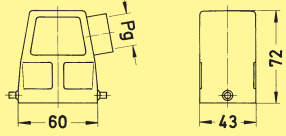

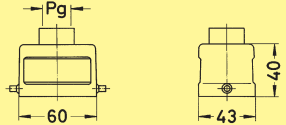
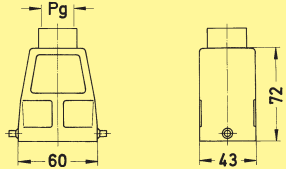

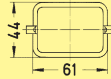
Identification	Series	Part No.		Drawing	Dimensions in mm
		Male insert (M)	Female insert (F)		
Crimp terminal Order contacts separately	Han EE	09 32 010 3001	09 32 010 3101		
				¹⁾ Distance for contact max. 21 mm Contact arrangement View from termination side 	
				Panel cut out for inserts for use without hoods/housings 	

Identification	Wire gauge (mm ²)	Part No.		Drawing	Dimensions in mm																																
		Male contacts	Female contacts																																		
Crimp contacts Power contacts 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																																		
gold plated Relay contact silver plated	0.5 0.75 1.0 1.5 2.5 4.0 0.75-1 1.5 2.5	09 33 000 6122 09 33 000 6115 09 33 000 6118 09 33 000 6116 09 33 000 6123 09 33 000 6119	09 33 000 6222 09 33 000 6215 09 33 000 6218 09 33 000 6216 09 33 000 6223 09 33 000 6221	Operation contact Identification 	Relay contact 																																
				Crimp contact identification <table border="1"> <thead> <tr> <th>Identification</th> <th>Wire gauge</th> <th>AWG</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	AWG	Stripping length	no groove	0.5 mm ²	AWG 20	7.5 mm	1 groove*	0.75 mm ²	AWG 18	7.5 mm	1 groove	1 mm ²	AWG 18	7.5 mm	2 grooves	1.5 mm ²	AWG 16	7.5 mm	3 grooves	2.5 mm ²	AWG 14	7.5 mm	wide groove	3.0 mm ²	AWG 12	7.5 mm	no groove	4 mm ²	AWG 12	7.5 mm	
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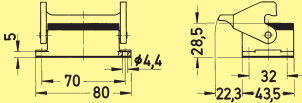
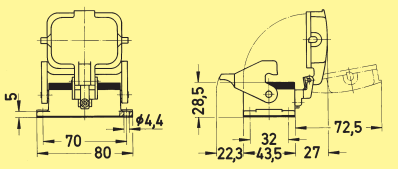

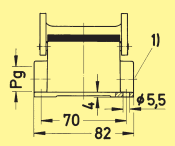
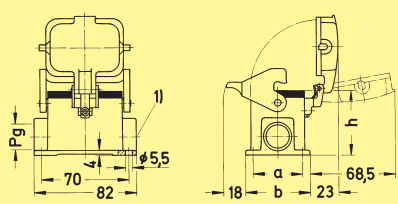

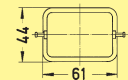
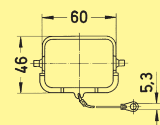

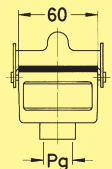
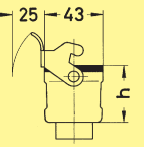

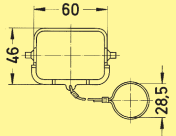
* on the back crimp collar

Stock items in bold type

Han
E / EE

Identification	Part No.		Pg	Drawing	Dimensions in mm	
	Low construction	High construction				
Hoods side-entry 	09 30 006 1540 09 30 006 1541		13.5			
			16			
				21		
				29		
	Hoods top-entry 	09 30 006 1440 09 30 006 1441		13.5		
				16		
				21		
				29		
Protection covers metal 		09 30 006 5401 09 30 006 5423				

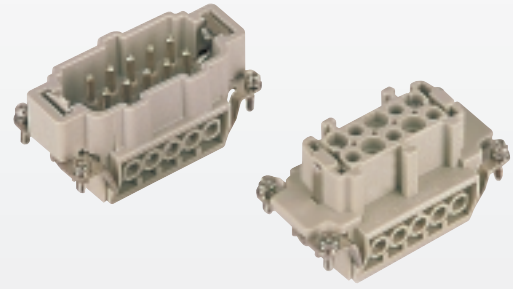
Hoods

Identification	Part No.		Pg	Drawing	Dimensions in mm												
	Low construction	High construction															
Housings bulkhead mounting 	09 30 006 0301		—	Panel cut out 48 x 35 cm  													
	with thermo-plastic cover 09 30 006 0302		—														
	with metal cover 09 30 006 0318		—														
Housings surface mounting 	1 side-entry 09 30 006 1251		16	  1) 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>51.5</td> </tr> <tr> <td>High construction</td> <td>45</td> <td>57</td> <td>74</td> </tr> </tbody> </table>		a	b	h	Low construction	40	52	51.5	High construction	45	57	74	
		a	b		h												
	Low construction	40	52		51.5												
	High construction	45	57		74												
	2 side-entries 09 30 006 1291		09 30 006 0292 09 30 006 0293		16 21 29												
	1 side-entry 09 30 006 1256		with thermo-plastic cover 09 30 006 1256		16												
	1 side-entry 09 30 006 2256		with metal cover 09 30 006 2256		16												
	2 side-entries 09 30 006 1296		with thermo-plastic cover 09 30 006 1296		16 21 29												
	2 side-entries 09 30 006 2296		with metal cover 09 30 006 2296		16 21 29												
	2 side-entries 09 30 006 2297 09 30 006 2298		with thermo-plastic cover 09 30 006 0297 09 30 006 0298		16 21 29												
2 side-entries 09 30 006 2297 09 30 006 2298		with metal cover 09 30 006 2297 09 30 006 2298	16 21 29														
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Protection covers metal 	09 30 006 5404			 													
	09 30 006 5425																
Hoods cable to cable 	09 30 006 1750		13.5	<table border="1"> <thead> <tr> <th>h</th> <th>60</th> <th>25</th> <th>43</th> </tr> </thead> <tbody> <tr> <td>42.5</td> <td></td> <td></td> <td></td> </tr> <tr> <td>72.5</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>  	h	60	25	43	42.5				72.5				
h	60	25	43														
42.5																	
72.5																	
		09 30 006 0752 09 30 006 0753	21 29														
Protection cover metal 	09 30 006 5427																

Han
E/EE

Number of contacts

10 +



Inserts

Han E / EE

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

Screw terminal with wire protection

Han E			
		09 33 010 2601	09 33 010 2701

Cage-clamp terminal

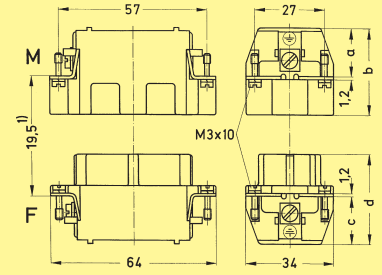
Han ES			
		09 33 010 2616	09 33 010 2716

Cage-clamp terminal two terminals per contact

Han ESS			
		09 33 010 2672	09 33 010 2772

Crimp terminal
Order contacts separately

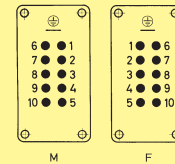
Han E			
		09 33 010 2602	09 33 010 2702



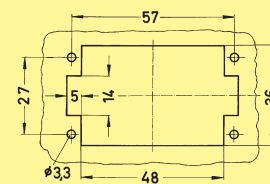
¹⁾ Distance for contact max. 21 mm

	a	b	c	d
Han E	20	35	21	37
Han ES	21	36	19	35
Han ESS	34	49	32	49

Contact arrangement View from termination side



Panel cut out for inserts for use without hoods/housings



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

Crimp contacts
Power contacts
silver plated

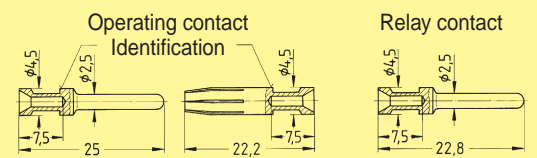
0.5	09 33 000 6121	09 33 000 6220
0.75	09 33 000 6114	09 33 000 6214
1.0	09 33 000 6105	09 33 000 6205
1.5	09 33 000 6104	09 33 000 6204
2.5	09 33 000 6102	09 33 000 6202
3	09 33 000 6106	09 33 000 6206
4	09 33 000 6107	09 33 000 6207

gold plated

0.5	09 33 000 6122	09 33 000 6222
0.75	09 33 000 6115	09 33 000 6215
1.0	09 33 000 6118	09 33 000 6218
1.5	09 33 000 6116	09 33 000 6216
2.5	09 33 000 6123	09 33 000 6223
4.0	09 33 000 6119	09 33 000 6221

Relay contact silver plated

0.75-1	09 33 000 6109	
1.5	09 33 000 6110	
2.5	09 33 000 6111	



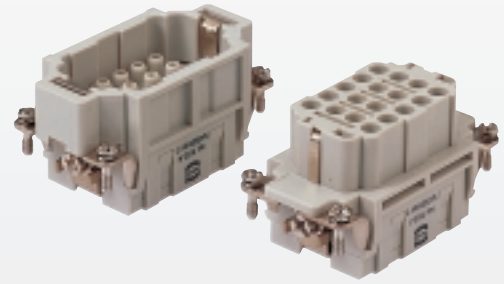
Crimp contact identification

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

* on the back crimp collar

Number of contacts

18 +



Inserts

Identification	Series	Part No.		Drawing	Dimensions in mm
		Male insert (M)	Female insert (F)		
Crimp terminal Order contacts separately	Han EE	09 32 018 3001	09 32 018 3101		
				Contact arrangement View from termination side 	
				Panel cut out for inserts for use without hoods/housings 	

Identification	Wire gauge (mm ²)	Part No.		Drawing	Dimensions in mm																																
		Male contacts	Female contacts																																		
Crimp contacts Power contacts 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																																		
gold plated	0.5 0.75 1.0 1.5 2.5 4.0	09 33 000 6122 09 33 000 6115 09 33 000 6118 09 33 000 6116 09 33 000 6123 09 33 000 6119	09 33 000 6222 09 33 000 6215 09 33 000 6218 09 33 000 6216 09 33 000 6223 09 33 000 6221	Operation contact Identification 	Relay contact 																																
Relay contact silver plated	0.75-1 1.5 2.5	09 33 000 6109 09 33 000 6110 09 33 000 6111		Crimp contact identification <table border="1"> <thead> <tr> <th>Identification</th> <th>Wire gauge</th> <th>AWG</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	AWG	Stripping length	no groove	0.5 mm ²	AWG 20	7.5 mm	1 groove*	0.75 mm ²	AWG 18	7.5 mm	1 groove	1 mm ²	AWG 18	7.5 mm	2 grooves	1.5 mm ²	AWG 16	7.5 mm	3 grooves	2.5 mm ²	AWG 14	7.5 mm	wide groove	3.0 mm ²	AWG 12	7.5 mm	no groove	4 mm ²	AWG 12	7.5 mm	
Identification	Wire gauge	AWG	Stripping length																																		
no groove	0.5 mm ²	AWG 20	7.5 mm																																		
1 groove*	0.75 mm ²	AWG 18	7.5 mm																																		
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3 grooves	2.5 mm ²	AWG 14	7.5 mm																																		
wide groove	3.0 mm ²	AWG 12	7.5 mm																																		
no groove	4 mm ²	AWG 12	7.5 mm																																		

* on the back crimp collar

Stock items in bold type

Han
E / EE

Identification	Part No.		Pg	Drawing	Dimensions in mm
	Low construction	High construction			
Hoods side-entry		09 30 010 1521	16		
		09 30 010 0522	21		
		09 30 010 0523	29		
Hoods top-entry		09 30 010 1421	16		
		09 30 010 0422	21		
		09 30 010 0423	29		
Protection covers thermoplastic/metal		09 30 010 5401			
		09 30 010 5423			
Housing bulkhead mounting		09 30 010 0301	—		Panel cut out 60 x 35 mm
Housings surface mounting	1 side-entry 	09 30 010 1231	16		Blind way for one cable entry
		09 30 010 0232 09 30 010 0233	21 29		
	2 side-entries 	09 30 010 1271	16		
		09 30 010 0272 09 30 010 0273	21 29		
Protection covers thermoplastic/metal		09 30 010 5407			
		09 30 010 5425			
Hoods cable to cable		09 30 010 1731	16 21 29		
Protection cover metal		09 30 010 5427			

	a	b	h
Low construction	40	52	54
High construction	45	57	74

	h
Low construction	47.5
High construction	74.5

Identification	Part No.		Pg	Drawing	Dimensions in mm	
	Low construction	High construction				
Hoods	Hoods side-entry 	09 30 010 1541	16			
		09 30 010 0542	21			
		09 30 010 0543	29			
	Hoods top-entry 	09 30 010 1441	16			
		09 30 010 0442	21			
		09 30 010 0443	29			
Housings	Housings bulkhead mounting 	09 30 010 0305	—	Panel cut out 60 x 35 mm 		
		with thermo-plastic cover 09 30 010 0303	—			
		with metal cover 09 30 010 0318	—			
	Housings surface mounting 	1 side-entry 09 30 010 1251	16			
		2 side-entries 09 30 010 1291	16			
			09 30 010 0292			16
			09 30 010 0293			21
			09 30 010 0293			29
		1 side-entry with thermo-plastic cover 09 30 010 1256	16			
	Housings surface mounting 	2 side-entries with thermo-plastic cover 09 30 010 1296	16			
		09 30 010 0297	16			
		09 30 010 0298	21			
		09 30 010 0298	29			
	with metal cover 09 30 010 2296	16				
	with thermo-plastic cover 09 30 010 1296	21				
	with metal cover 09 30 010 2297	16				
	with thermo-plastic cover 09 30 010 1296	21				
Hoods cable to cable 	09 30 010 1751	16				
		09 30 010 0752			21	
		09 30 010 0753			29	
		09 30 010 0753			29	

Han E/EE

¹⁾ Blind way for one cable entry

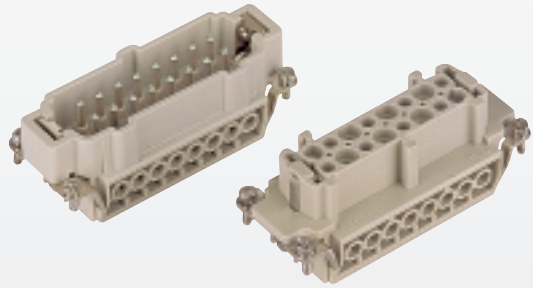
	a	b	h
Low construction	40	52	54
High construction	45	57	74

	h
Low construction	47.5
High construction	74.5

03
21

Number of contacts

16 +



Inserts

Han E / EE

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

Screw terminal with wire protection

Han E			
		09 33 016 2601	09 33 016 2701

Cage-clamp terminal

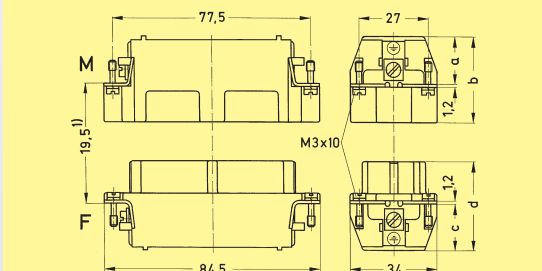
Han ES			
		09 33 016 2616	09 33 016 2716

Cage-clamp terminal two terminals per contact

Han ESS			
		09 33 016 2672	09 33 016 2772

Crimp terminal
Order contacts separately

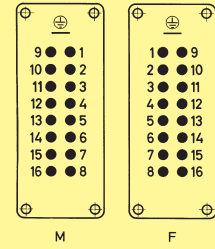
Han E			
		09 33 016 2602	09 33 016 2702



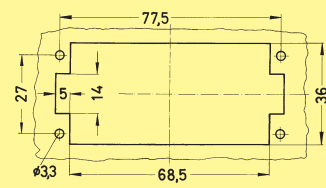
1) Distance for contact max. 21 mm

	a	b	c	d
Han E	20	35	21	37
Han ES	21	36	19	35
Han ESS	34	49	32	49

Contact arrangement View from termination side



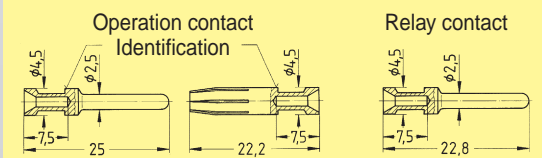
Panel cut out for inserts for use without hoods/housings



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

Crimp contacts
Power contacts
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
3	09 33 000 6106	09 33 000 6206
4	09 33 000 6107	09 33 000 6207



Crimp contact identification

Identification	Wire gauge	AWG	Stripping length
no groove	0.5 mm ²	AWG 20	7.5 mm
1 groove*	0.75 mm ²	AWG 18	7.5 mm
1 groove	1 mm ²	AWG 18	7.5 mm
2 grooves	1.5 mm ²	AWG 16	7.5 mm
3 grooves	2.5 mm ²	AWG 14	7.5 mm
wide groove	3.0 mm ²	AWG 12	7.5 mm
no groove	4 mm ²	AWG 12	7.5 mm

* on the back crimp collar

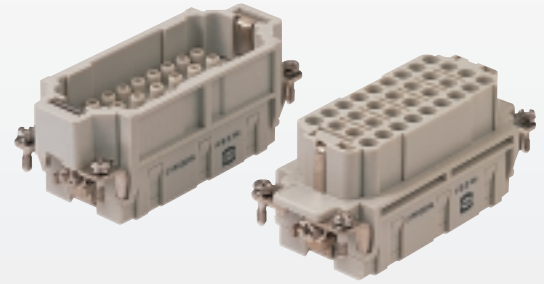
Relay contact silver plated

0.75-1	09 33 000 6109	
1.5	09 33 000 6110	
2.5	09 33 000 6111	

Stock items in bold type

Number of contacts

32 +



Inserts

Identification	Series	Part No.		Drawing	Dimensions in mm
		Male insert (M)	Female insert (F)		
Crimp terminal Order contacts separately	Han EE	09 32 032 3001	09 32 032 3101		
				¹⁾ Distance for contact max. 21 mm	
				Contact arrangement View from termination side	
				Panel cut out for inserts for use without hoods/housings	

Identification	Wire gauge (mm ²)	Part No.		Drawing	Dimensions in mm																								
		Male contacts	Female contacts																										
Crimp contacts Power contacts 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																										
gold plated	0.5 0.75 1.0 1.5 2.5 4.0	09 33 000 6122 09 33 000 6115 09 33 000 6118 09 33 000 6116 09 33 000 6123 09 33 000 6119	09 33 000 6222 09 33 000 6215 09 33 000 6218 09 33 000 6216 09 33 000 6223 09 33 000 6221																										
Relay contact silver plated	0.75-1 1.5 2.5	09 33 000 6109 09 33 000 6110 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> </tr> <tr> <td>1 groove*</td> <td>0.75 mm²</td> <td>AWG 18</td> </tr> <tr> <td>1 groove</td> <td>1 mm²</td> <td>AWG 18</td> </tr> <tr> <td>2 grooves</td> <td>1.5 mm²</td> <td>AWG 16</td> </tr> <tr> <td>3 grooves</td> <td>2.5 mm²</td> <td>AWG 14</td> </tr> <tr> <td>wide groove</td> <td>3.0 mm²</td> <td>AWG 12</td> </tr> <tr> <td>no groove</td> <td>4 mm²</td> <td>AWG 12</td> </tr> </tbody> </table>	Identification	Wire gauge	Stripping length	no groove	0.5 mm ²	AWG 20	1 groove*	0.75 mm ²	AWG 18	1 groove	1 mm ²	AWG 18	2 grooves	1.5 mm ²	AWG 16	3 grooves	2.5 mm ²	AWG 14	wide groove	3.0 mm ²	AWG 12	no groove	4 mm ²	AWG 12	
Identification	Wire gauge	Stripping length																											
no groove	0.5 mm ²	AWG 20																											
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2 grooves	1.5 mm ²	AWG 16																											
3 grooves	2.5 mm ²	AWG 14																											
wide groove	3.0 mm ²	AWG 12																											
no groove	4 mm ²	AWG 12																											
				* on the back crimp collar																									

Han E/EE

03
23

Han
E/EE

Identification	Part No.		Pg	Drawing	Dimensions in mm						
	Low construction	High construction									
Hoods	Hoods side-entry 	09 30 016 1520	21								
		09 30 016 0520 09 30 016 0521	21 29								
	Hoods top-entry 	09 30 016 1420	21								
		09 30 016 0420 09 30 016 0421	21 29								
	Protection covers 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 09 30 016 1230	09 30 016 0230 09 30 016 0231	21 29	 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 09 30 016 1270	09 30 016 0270 09 30 016 0271	21 29								
Protection covers thermoplastic/metal 	09 30 016 5405										
	09 30 016 5425										
Hoods cable to cable 	09 30 016 1730	09 30 016 0730 09 30 016 0731	21 29		 <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>78.5</td> </tr> </tbody> </table>		h	Low construction	47.5	High construction	78.5
	h										
Low construction	47.5										
High construction	78.5										
Protection cover metal 	09 30 016 5426										

Identification	Part No.		Pg	Drawing	Dimensions in mm	
	Low construction	High construction				
Hoods	Hoods side-entry 	09 30 016 1540	21			
		09 30 016 0540 09 30 016 0541	21 29			
	Hoods top-entry 	09 30 016 1440	21			
		09 30 016 0440 09 30 016 0441	21 29			
	Housings	Housings bulkhead mounting 	09 30 016 0307	—	Panel cut out 82 x 35 mm 	
			with thermo-plastic cover 09 30 016 0306	—		
with metal cover 09 30 016 0318			—			
Housings surface mounting		1 side-entry	09 30 016 1250	09 30 016 0250 09 30 016 0251	21 29	
		2 side-entries	09 30 016 1290	09 30 016 0290 09 30 016 0291	21 29	
		1 side-entry	with thermo-plastic cover 09 30 016 1255	with thermo-plastic cover 09 30 016 0255 09 30 016 0256	21 29	
		2 side-entries	with thermo-plastic cover 09 30 016 1295	with thermo-plastic cover 09 30 016 0295 09 30 016 0296	21 29	
		2 side-entries	with metal cover 09 30 016 2295	with metal cover 09 30 016 2297 09 30 016 2298	21 29	
Hoods cable to cable 		09 30 016 1750	09 30 016 0750 09 30 016 0751	21 29		

Han
E/EE

¹⁾ Blind way for one cable entry

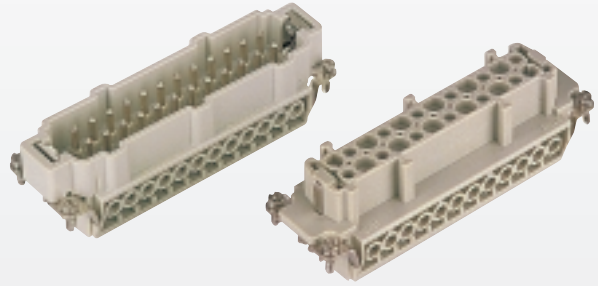
	h
Low construction	56
High construction	81

	h
Low construction	47.5
High construction	78.5

03
25

Number of contacts

24 +



Inserts

Han E / EE

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

Screw terminal with wire protection

Han E			
		09 33 024 2601	09 33 024 2701

Cage-clamp terminal

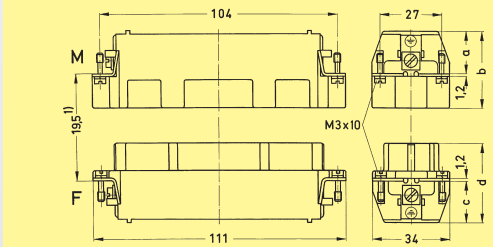
Han ES			
		09 33 024 2616	09 33 024 2716

Cage-clamp terminal two terminals per contact

Han ESS			
		09 33 024 2672	09 33 024 2772

Crimp terminal
Order contacts separately

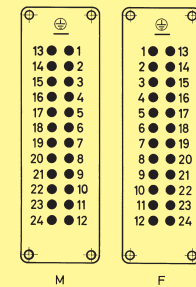
Han E			
		09 33 024 2602	09 33 024 2702



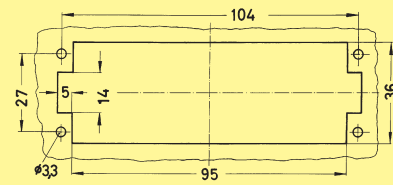
¹⁾ Distance for contact max. 21 mm

	a	b	c	d
Han E	20	35	21	37
Han ES	21	36	19	35
Han ESS	34	49	32	49

Contact arrangement View from termination side



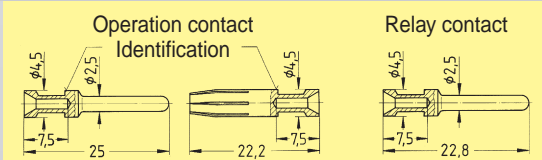
Panel cut out for inserts for use without hoods/housings



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

Crimp contacts
Power contacts
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
3	09 33 000 6106	09 33 000 6206
4	09 33 000 6107	09 33 000 6207



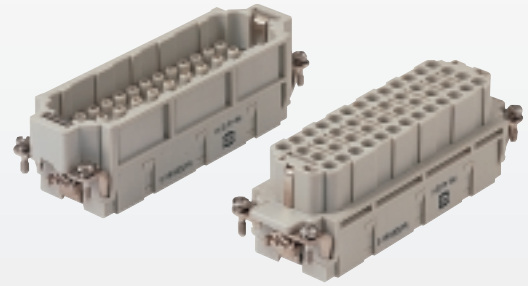
Crimp contact identification

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

* on the back crimp collar

Number of contacts

46 +



Inserts

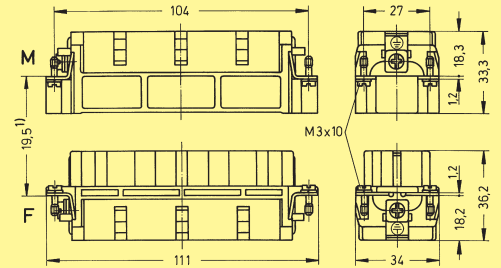
Identification	Series	Part No.		Drawing	Dimensions in mm
		Male insert (M)	Female insert (F)		

Crimp terminal
Order contacts separately

Han EE

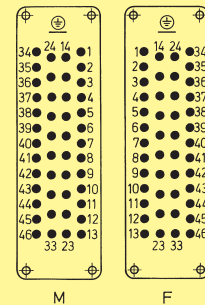
09 32 046 3001

09 32 046 3101

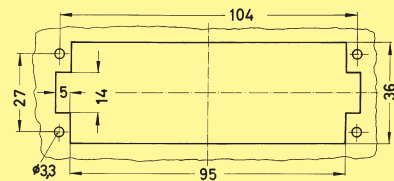


¹⁾ Distance for contact max. 21 mm

Contact arrangement View from termination side



Panel cut out for inserts
for use without hoods/housings



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

Crimp contacts
Power contacts

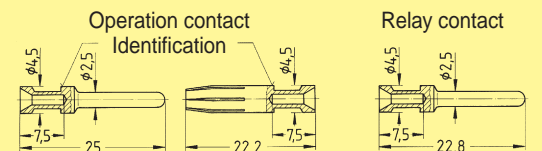
silver plated



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



gold plated



0.5
0.75
1.0
1.5
2.5
4.0

09 33 000 6122
09 33 000 6115
09 33 000 6118
09 33 000 6116
09 33 000 6123
09 33 000 6119

09 33 000 6222
09 33 000 6215
09 33 000 6218
09 33 000 6216
09 33 000 6223
09 33 000 6221

Relay contact
silver plated



0.75-1
1.5
2.5


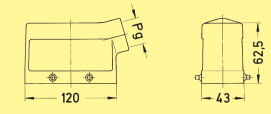
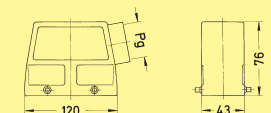
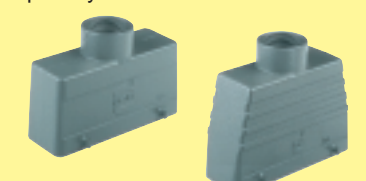
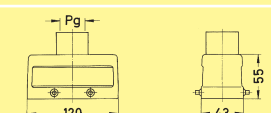
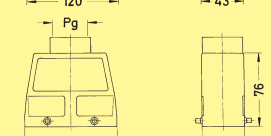

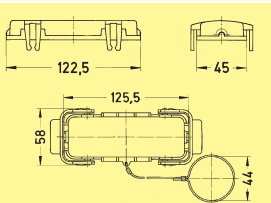

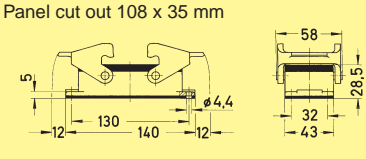

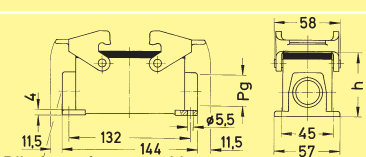


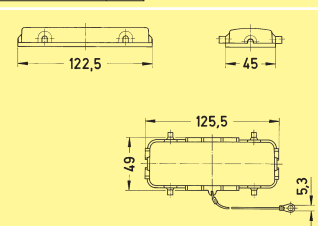

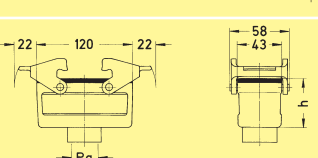

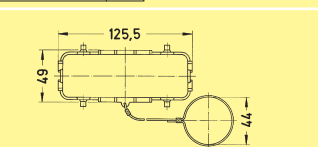
09 33 000 6109
09 33 000 6110
09 33 000 6111

Crimp contact identification

Identification	Wire gauge		Stripping length
no groove	0.5 mm ²	AWG 20	7.5 mm
1 groove*	0.75 mm ²	AWG 18	7.5 mm
1 groove	1 mm ²	AWG 18	7.5 mm
2 grooves	1.5 mm ²	AWG 16	7.5 mm
3 grooves	2.5 mm ²	AWG 14	7.5 mm
wide groove	3.0 mm ²	AWG 12	7.5 mm
no groove	4 mm ²	AWG 12	7.5 mm

* on the back crimp collar

Han
E/EE

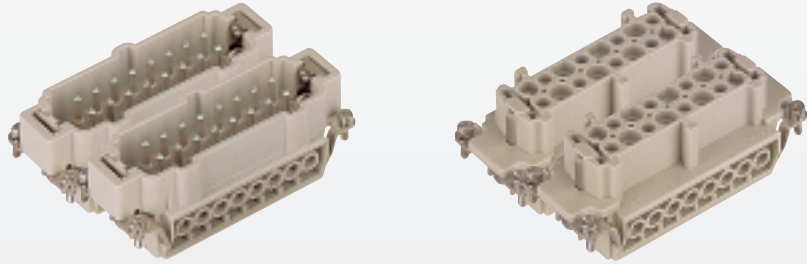
Identification	Part No.		Pg	Drawing	Dimensions in mm						
	Low construction	High construction									
Hoods	Hoods side-entry 	09 30 024 1520		21							
			09 30 024 0520 09 30 024 0521	21 29							
	Hoods top-entry 	09 30 024 1421		29							
		09 30 024 0420 09 30 024 0421	21 29								
Protection covers thermoplastic/metal 	09 30 024 5401 09 30 024 5422										
Housing bulkhead mounting 	09 30 024 0301		-	Panel cut out 108 x 35 mm 							
Housings surface mounting	1 side-entry 	09 30 024 1230	09 30 024 0230 09 30 024 0231	21 29	 Blind way for one cable entry <table border="1" data-bbox="1085 1388 1276 1478"> <tr><th></th><th>h</th></tr> <tr><td>Low construction</td><td>56</td></tr> <tr><td>High construction</td><td>81</td></tr> </table>		h	Low construction	56	High construction	81
		h									
Low construction	56										
High construction	81										
2 side-entries 	09 30 024 1270	09 30 024 0270 09 30 024 0271	21 29								
Protection covers thermoplastic/metal 	09 30 024 5405 09 30 024 5425										
	Hoods cable to cable 	09 30 024 1731	09 30 024 0730 09 30 024 0731	21 29	 <table border="1" data-bbox="1085 1859 1276 1937"> <tr><th></th><th>h</th></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										
Protection cover metal 	09 30 024 5426										

Identification	Part No.		Pg	Drawing	Dimensions in mm						
	Low construction	High construction									
Hoods side-entry		09 30 024 1540		21							
		09 30 024 0540 09 30 024 0541				21 29					
Hoods top-entry		09 30 024 1441		29							
		09 30 024 0440 09 30 024 0441		21 29							
Housings bulkhead mounting		09 30 024 0307		—	<p>Panel cut out 108 x 35 mm</p>						
		with thermo- plastic cover 09 30 024 0304		—							
		with metal cover 09 30 024 0318		—							
Housings surface mounting	1 side-entry	09 30 024 1250	09 30 024 0250	21							
		09 30 024 1290	09 30 024 0251	29							
	2 side-entries	09 30 024 1290	09 30 024 0290	21							
		09 30 024 0291	29								
	1 side-entry	with thermoplastic cover 09 30 024 1255	with thermoplastic cover 09 30 024 0255	21							
		09 30 024 1255	09 30 024 0256	29							
2 side-entries	with thermoplastic cover 09 30 024 1295	with thermoplastic cover 09 30 024 0295	21								
	09 30 024 1295	09 30 024 0296	29								
2 side-entries	with metal cover 09 30 024 2295	with metal cover 09 30 024 2297	21								
	09 30 024 2295	09 30 024 2298	29								
<p>¹⁾ Blind way for one cable entry</p> <table border="1"> <tr><td></td><td>h</td></tr> <tr><td>Low construction</td><td>56</td></tr> <tr><td>High construction</td><td>81</td></tr> </table>							h	Low construction	56	High construction	81
	h										
Low construction	56										
High construction	81										
Hoods cable to cable		09 30 024 1751	09 30 024 0751	29	<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										

Han
E/EE

Number of contacts

32 +



Inserts

Han E / EE

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

Screw terminal with wire protection

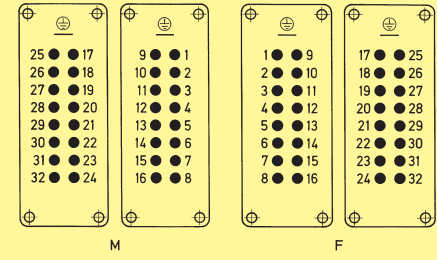
Han E			
1-16	09 33 016 2601	09 33 016 2701	
17-32	09 33 016 2611	09 33 016 2711	

Dimensions for inserts see page 03.22

Cage-clamp terminal

Han ES			
1-16	09 33 016 2616	09 33 016 2716	
17-32	09 33 016 2626	09 33 016 2726	

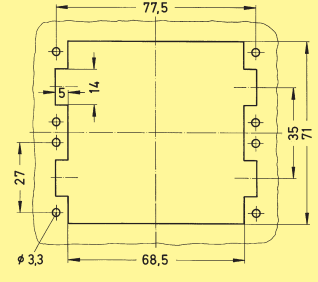
Contact arrangement View from termination side



Cage-clamp terminal two terminals per contact

Han ESS			
1-16	09 33 016 2672	09 33 016 2772	
1-16	09 33 016 2672	09 33 016 2772	

Panel cut out for inserts for use without hoods/housings



Crimp terminal Order contacts separately

Han E			
1-16	09 33 016 2602	09 33 016 2702	
17-32	09 33 016 2612	09 33 016 2712	

Identification	Wire gauge (mm²)	Part No.		Drawing	Dimensions in mm
		Male contacts	Female contacts		

Crimp contacts

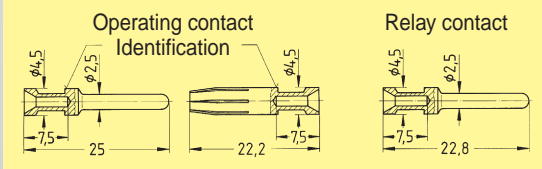
Power contacts

silver plated

gold plated

Relay 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
3	09 33 000 6106	09 33 000 6206
4	09 33 000 6107	09 33 000 6207
0.5	09 33 000 6122	09 33 000 6222
0.75	09 33 000 6115	09 33 000 6215
1.0	09 33 000 6118	09 33 000 6218
1.5	09 33 000 6116	09 33 000 6216
2.5	09 33 000 6123	09 33 000 6223
4.0	09 33 000 6119	09 33 000 6221
0.75-1	09 33 000 6109	
1.5	09 33 000 6110	
2.5	09 33 000 6111	



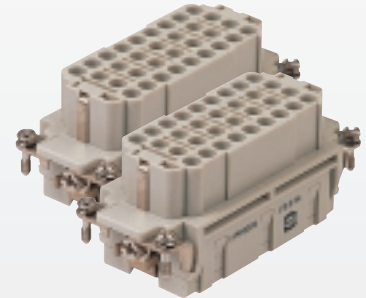
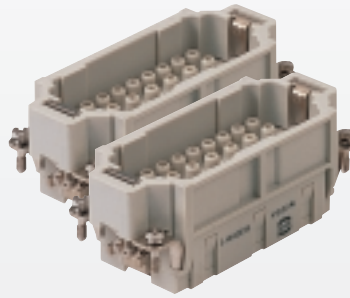
Crimp contact identification

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 contacts

64 +



Inserts

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

Crimp terminal
Order contacts separately

Han EE

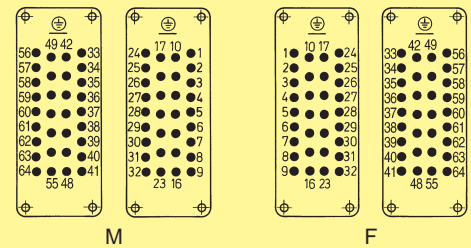
1–32
33–64

09 32 032 3001
09 32 032 3011

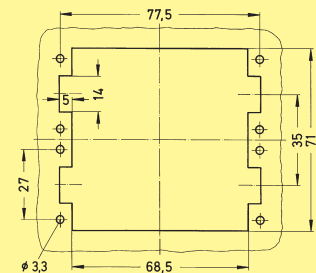
09 32 032 3101
09 32 032 3111

Dimensions for inserts see page 03.23

Contact arrangement View from termination side



Panel cut out for inserts
for use without hoods/housings



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

Crimp contacts
Power contacts

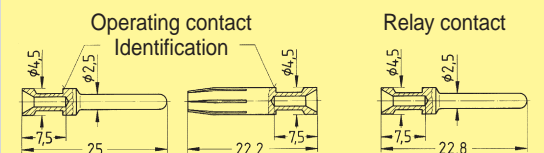
silver plated



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



gold plated



0.5
0.75
1.0
1.5
2.5
4.0

09 33 000 6122
09 33 000 6115
09 33 000 6118
09 33 000 6116
09 33 000 6123
09 33 000 6119

09 33 000 6222
09 33 000 6215
09 33 000 6218
09 33 000 6216
09 33 000 6223
09 33 000 6221

Relay contact
silver plated



0.75-1
1.5
2.5


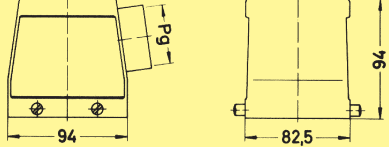

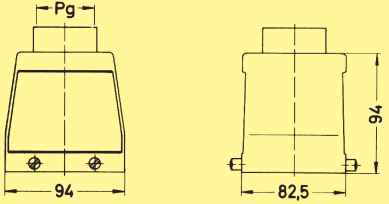
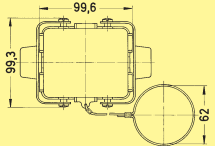

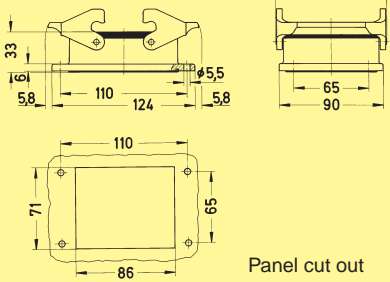
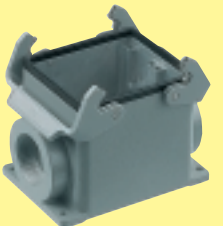
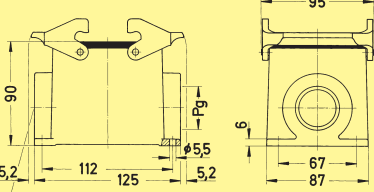

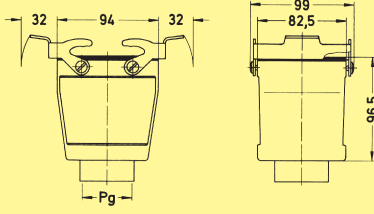
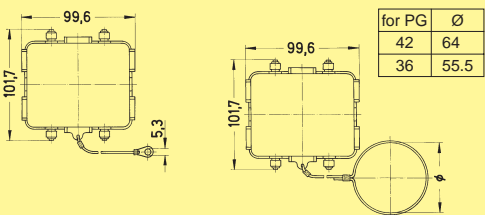
09 33 000 6109
09 33 000 6110
09 33 000 6111

Crimp contact identification

Identification	Wire gauge		Stripping length
no groove	0.5 mm ²	AWG 20	7.5 mm
1 groove*	0.75 mm ²	AWG 18	7.5 mm
1 groove	1 mm ²	AWG 18	7.5 mm
2 grooves	1.5 mm ²	AWG 16	7.5 mm
3 grooves	2.5 mm ²	AWG 14	7.5 mm
wide groove	3.0 mm ²	AWG 12	7.5 mm
no groove	4 mm ²	AWG 12	7.5 mm

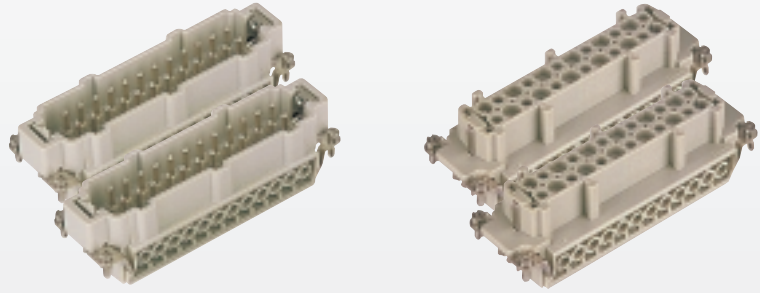
* on the back crimp collar

Han
E/EE

Identification	Part No.	Pg	Drawing	Dimensions in mm						
Hoods side-entry 	09 30 032 0521 09 30 032 0522 09 30 032 0523	29 36 42								
Hoods top-entry 	09 30 032 0421 09 30 032 0422 09 30 032 0423	29 36 42								
Protection cover for hoods	09 30 032 5420	-								
Housing bulkhead mounting 	09 30 032 0301	-		Panel cut out						
Housings surface mounting 	09 30 032 0231 09 30 032 0232 09 30 032 0233 09 30 032 0271 09 30 032 0272 09 30 032 0273	1 x 29 1 x 36 1 x 42 2 x 29 2 x 36 2 x 42		Blind way for one cable entry						
Hoods cable to cable 	09 30 032 0731 09 30 032 0732 09 30 032 0733	29 36 42								
Protection covers for housings for cable to cable hoods	09 30 032 5425 09 30 032 5426 09 30 032 5427	- 42 36		<table border="1"> <thead> <tr> <th>for PG</th> <th>Ø</th> </tr> </thead> <tbody> <tr> <td>42</td> <td>64</td> </tr> <tr> <td>36</td> <td>55.5</td> </tr> </tbody> </table>	for PG	Ø	42	64	36	55.5
for PG	Ø									
42	64									
36	55.5									

Number of contacts

48 +



Inserts

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

Screw terminal with wire protection

Han E
1-24
25-48

09 33 024 2601	09 33 024 2701
09 33 024 2611	09 33 024 2711

--

Dimensions for inserts see page 03.26

Cage-clamp terminal

Han ES
1-24
25-48

09 33 024 2616	09 33 024 2716
09 33 024 2626	09 33 024 2726

--

Contact arrangement View from termination side

Cage-clamp terminal two terminals per contact

Han ESS
1-24
1-24

09 33 024 2672	09 33 024 2772
09 33 024 2672	09 33 024 2772

--

Panel cut out for inserts for use without hoods/housings

Crimp terminal Order contacts separately

Han E
1-24
25-48

09 33 024 2602	09 33 024 2702
09 33 024 2612	09 33 024 2712

--

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

Crimp contacts

Power contacts

silver plated

gold plated

Relay 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
3	09 33 000 6106	09 33 000 6206
4	09 33 000 6107	09 33 000 6207
0.5	09 33 000 6122	09 33 000 6222
0.75	09 33 000 6115	09 33 000 6215
1.0	09 33 000 6118	09 33 000 6218
1.5	09 33 000 6116	09 33 000 6216
2.5	09 33 000 6123	09 33 000 6223
4.0	09 33 000 6119	09 33 000 6221
0.75-1	09 33 000 6109	
1.5	09 33 000 6110	
2.5	09 33 000 6111	

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Operating contact Identification

Relay contact

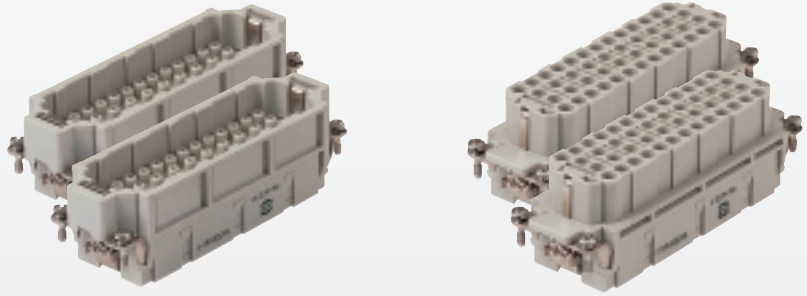
Crimp contact identification

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

* on the back crimp collar

Number of contacts

92 +



Inserts

Han
E / EE

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

Crimp terminal
Order contacts separately

Han EE

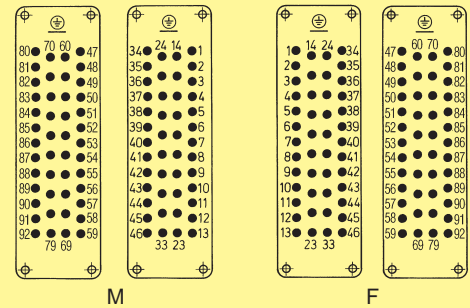
1–46
47–92

09 32 046 3001
09 32 046 3011

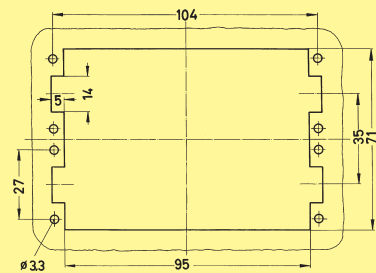
09 32 046 3101
09 32 046 3111

Dimensions for inserts see page 03.27

Contact arrangement View from termination side



Panel cut out for inserts
for use without hoods/housings



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

Crimp contacts
Power contacts

silver plated

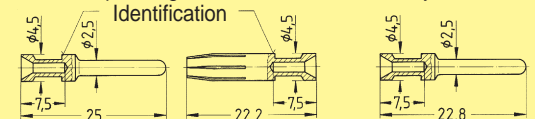


0.5
0.75
1.0
1.5
2.5
3
4

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



gold plated



0.5
0.75
1.0
1.5
2.5
4.0

09 33 000 6122
09 33 000 6115
09 33 000 6118
09 33 000 6116
09 33 000 6123
09 33 000 6119

09 33 000 6222
09 33 000 6215
09 33 000 6218
09 33 000 6216
09 33 000 6223
09 33 000 6221

Crimp contact identification

Identification	Wire gauge		Stripping length
no groove	0.5 mm ²	AWG 20	7.5 mm
1 groove*	0.75 mm ²	AWG 18	7.5 mm
1 groove	1 mm ²	AWG 18	7.5 mm
2 grooves	1.5 mm ²	AWG 16	7.5 mm
3 grooves	2.5 mm ²	AWG 14	7.5 mm
wide groove	3.0 mm ²	AWG 12	7.5 mm
no groove	4 mm ²	AWG 12	7.5 mm

* on the back crimp collar

Stock items in bold type

Identification	Part No.	Pg	Drawing	Dimensions in mm	
Hoods	Hoods side-entry		09 30 048 0540 09 30 048 0541 09 30 048 0542	29 36 42	
	Hoods top-entry		09 30 048 0440 09 30 048 0441 09 30 048 0442	29 36 42	
Housings	Housings bulkhead mounting		with thermo-plastic cover 09 30 048 0301	—	
			with metal cover 09 30 048 0317	—	Panel cut out
	Housings surface mounting		09 30 048 0290 09 30 048 0291	29 36	
	Housings surface mounting		with thermo-plastic cover 09 30 048 0295 09 30 048 0296	29 36	
	Housings surface mounting		with metal cover 09 30 048 2295 09 30 048 2296	29 36	

Han
E/EE

03
35

Stock items in bold type

1) Blind way

Modified contact arrangement up to 1000 V

The connector series Han EE equipped with all contacts may be used for voltages up to 500 V ~ insulation group 3 (C). A modified contact loading arrangement permits use up to 1000 V ~ insulation group also in insulation group C.

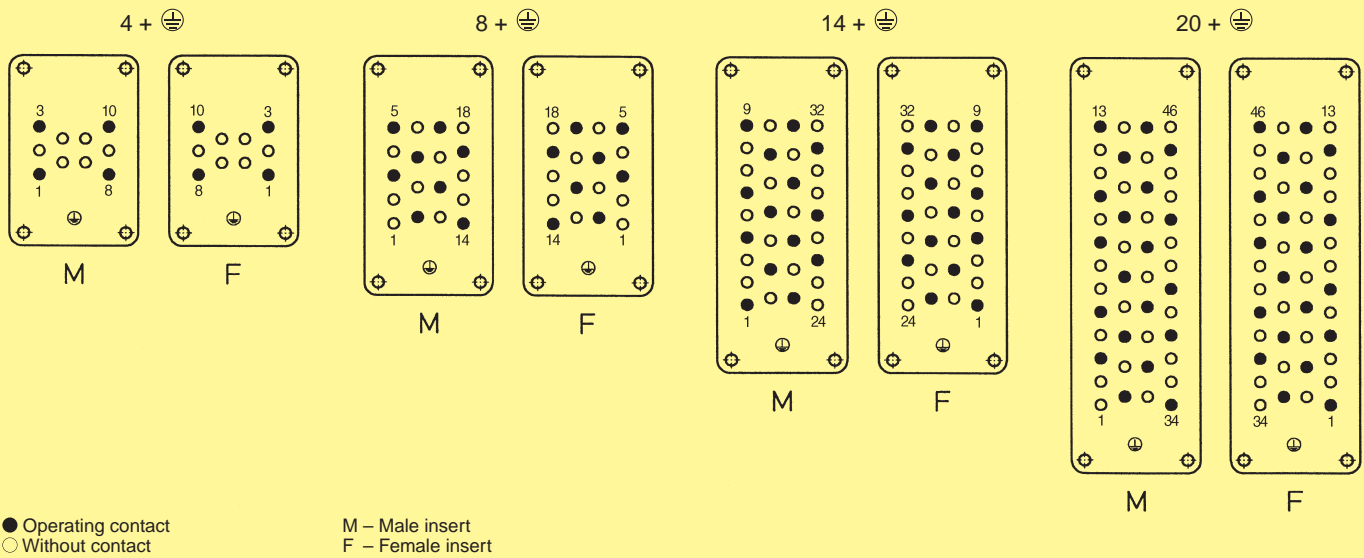
Fully equipped connectors may also be used up to 1000 V ~ but in a lower insulation group. See page 00.17, chart 4.

According to VDE 0627 connectors should not be coupled or decoupled under electrical load.

Han
E/EE

690 V Insulation group 3 (C)

Contact arrangement View from termination side



1 000 V Insulation group 3 (C)

Contact arrangement View from termination side

