

Specifications

DIN VDE 0627
DIN VDE 0110

Approvals

SEV, DNV,
BVS, CERCHAR, SABS

Inserts

Number of contacts	6, 10, 16, 24, 32 (2 x 16), 48 (2 x 24) + PE 16 A max.
Working current (see current carrying capacity)	
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	GD-Al Si 8
Surface	powder-coated RAL 7037
Locking element	steel, zinc plated
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

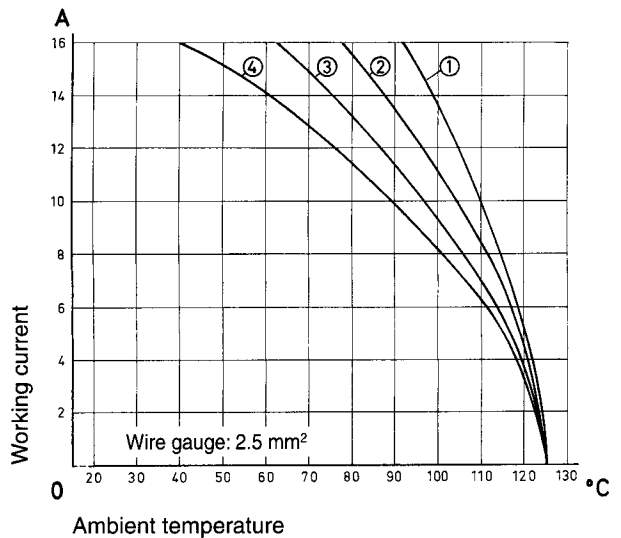
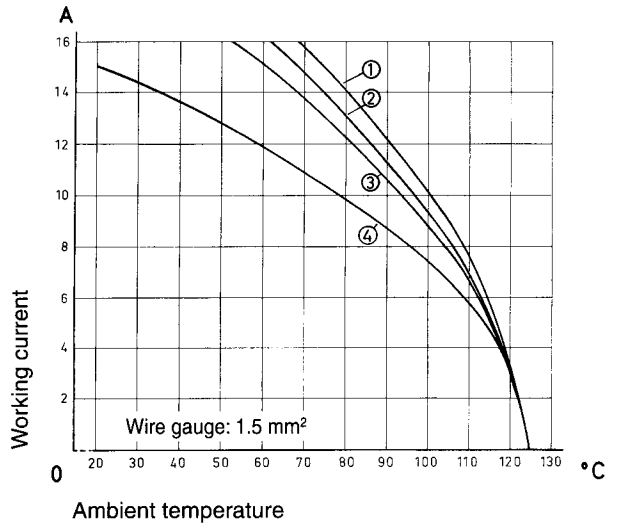
Accessories

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.

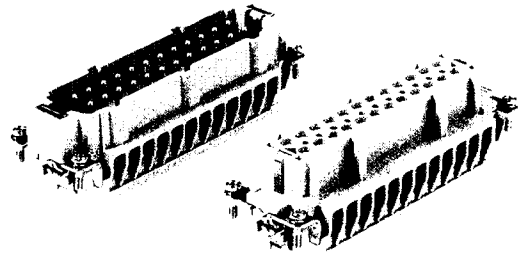
Control and test procedures according to DIN IEC 512-3.



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

Number of contacts

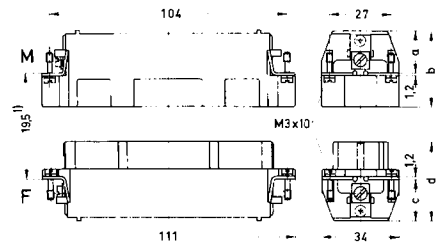
24 +



Inserts

Identification	Series	Part No.	
		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

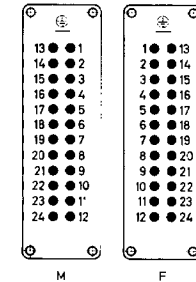
Drawing Dimensions in mm



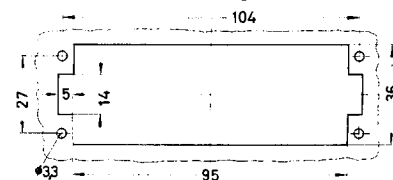
¹⁾ Distance for contact max. 21 mm

	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

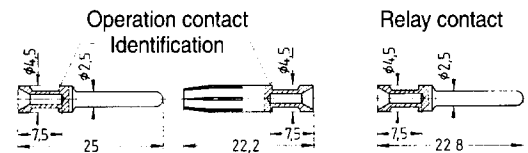


Panel cut out for inserts
for use without hoods/housings



Identification	Wire gauge (mm ²)	Part No.	
		Male contacts	Female contacts
Crimp contacts	0.5	09 33 000 6121	09 33 000 6220
Power contacts	0.75	09 33 000 6114	09 33 000 6214
silver plated	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
gold plated	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	0.75-1	09 33 000 6109	
silver plated	1.5	09 33 000 6110	
	2.5	09 33 000 6111	

Drawing Dimensions in mm

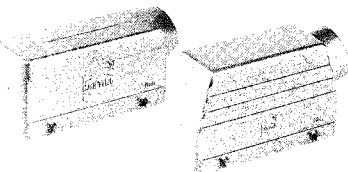
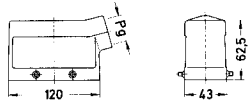

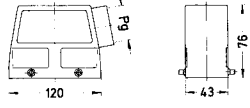
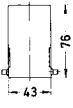
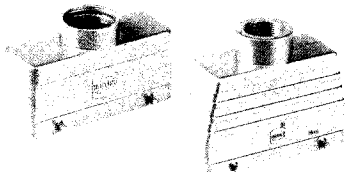
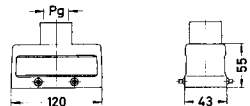

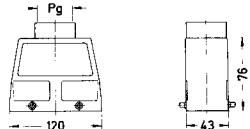


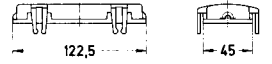

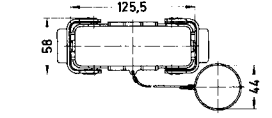
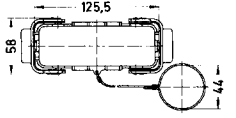
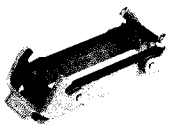
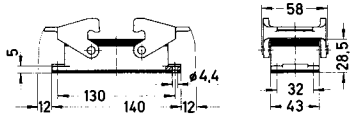
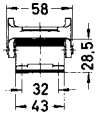
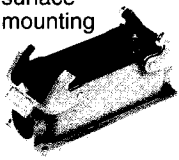
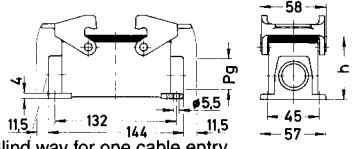
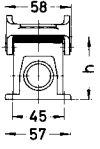



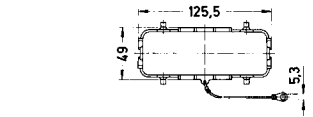
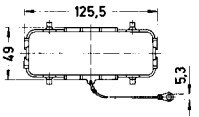
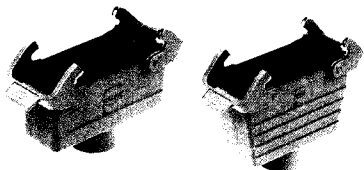
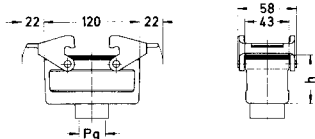
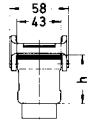

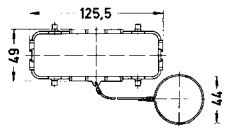
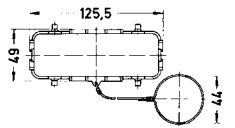


Crimp contact identification

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 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

Stock items in bold type

Identification	Part No.		Pg	Drawing	Dimensions in mm						
	Low construction	High construction									
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		—								
Housings surface mounting 	1 side-entry	09 30 024 1230	09 30 024 0230 09 30 024 0231	21 29	 Panel cut out 108 x 35 mm  Blind way for one cable entry <table border="1" data-bbox="1021 1361 1213 1436"> <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										
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								
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		62,5 43	
		09 30 024 0540 09 30 024 0541	21 29		76 43	
Hoods top-entry		09 30 024 1441	29		55 43	
		09 30 024 0440 09 30 024 0441	21 29		76 43	
Housings bulkhead mounting		09 30 024 0307	—		Panel cut out 108 x 35 mm 28,5 36 32 43	
		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 09 30 024 0251	21 29		
		2 side-entries 09 30 024 1290	09 30 024 0290 09 30 024 0291	21 29		
		1 side-entry 09 30 024 1255	with thermoplastic cover 09 30 024 0255 09 30 024 0256	21 29		
			2 side-entries 09 30 024 1295	with thermoplastic cover 09 30 024 0295 09 30 024 0296		21 29
			2 side-entries 09 30 024 2295	with metal cover 09 30 024 2297 09 30 024 2298		21 29
		Housings cable to cable		09 30 024 1751		09 30 024 0751
						h 57,5 78,5

¹⁾ Blind way for one cable entry

	h
Low construction	56
High construction	81

	h
Low construction	57,5
High construction	78,5