

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

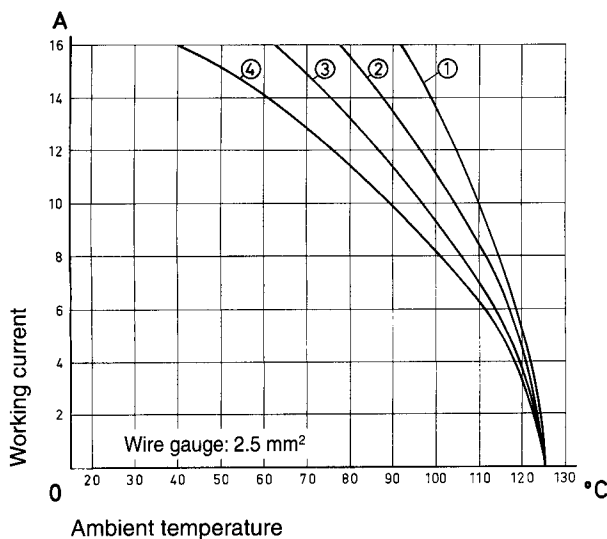
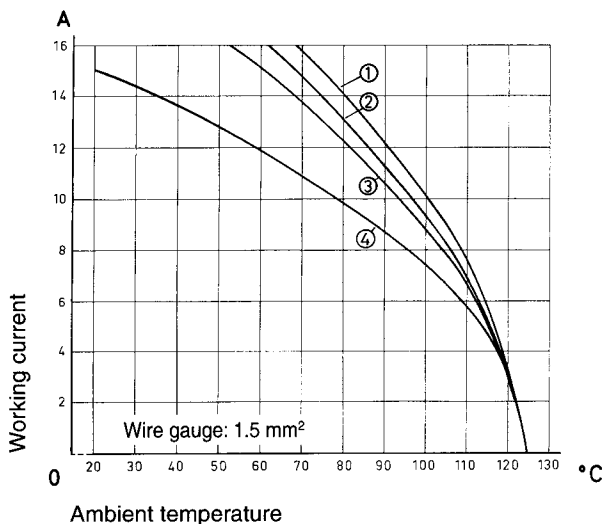
Accessories

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.

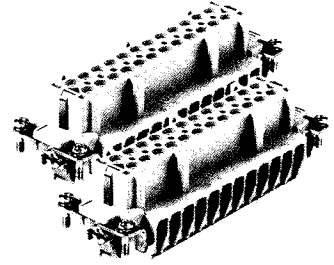
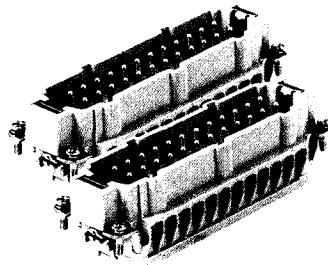
Control and test procedures according to DIN IEC 512-3.



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

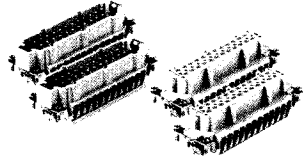
Number of contacts

48 +

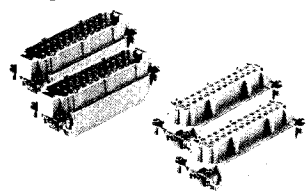


Inserts

Identification	Series	Part No.		Drawing	Dimensions in mm
		Male insert (M)	Female insert (F)		
Screw terminal with wire protection	Han E	1-24	09 33 024 2601	09 33 024 2701	Dimensions for inserts see page 03.26
		25-48	09 33 024 2611	09 33 024 2711	

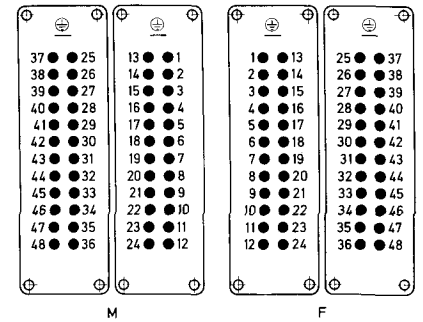


Cage-clamp terminal

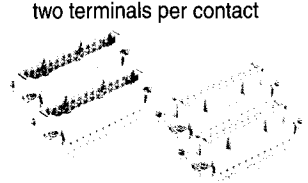


Series	Part No.	
	Male insert (M)	Female insert (F)
Han ES	1-24	09 33 024 2616
	25-48	09 33 024 2626

Contact arrangement View from termination side

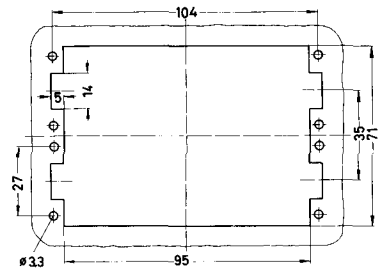


Cage-clamp terminal

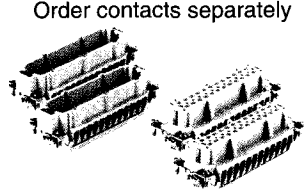


Series	Part No.	
	Male insert (M)	Female insert (F)
Han ESS	1-24	09 33 024 2672
	1-24	09 33 024 2672

Panel cut out for inserts for use without hoods/housings

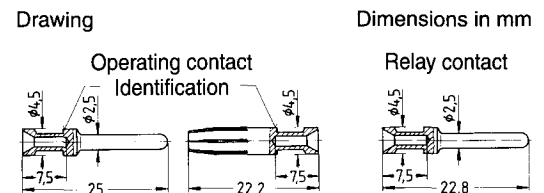


Crimp terminal



Series	Part No.	
	Male insert (M)	Female insert (F)
Han E	1-24	09 33 024 2602
	25-48	09 33 024 2612

Identification	Wire gauge (mm ²)	Part No.	
		Male contacts	Female contacts
Crimp contacts Power contacts	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
silver plated	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
gold plated	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	

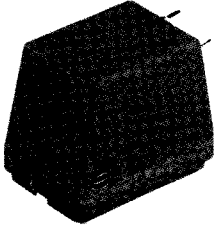


Identification	Wire gauge		Stripping length
no groove	0.5 mm ²	AWG 20	7.5 mm
1 groove*	0.75 mm ²	AWG 18	7.5 mm
1 groove	1 mm ²	AWG 18	7.5 mm
2 groove	1.5 mm ²	AWG 16	7.5 mm
3 groove	2.5 mm ²	AWG 14	7.5 mm
wide groove	3.0 mm ²	AWG 12	7.5 mm
no groove	4 mm ²	AWG 12	7.5 mm

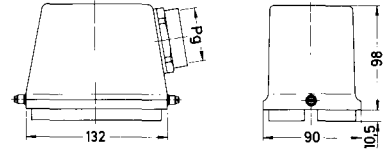
* on the back crimp collar

Identification Part No. Pg Drawing Dimensions in mm

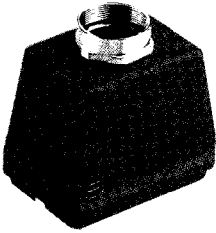
Hoods
side-entry



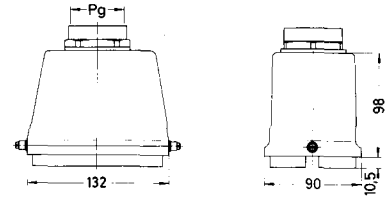
09 30 048 0540 29
09 30 048 0541 36
09 30 048 0542 42



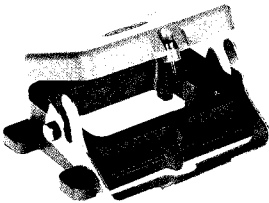
Hoods
top-entry



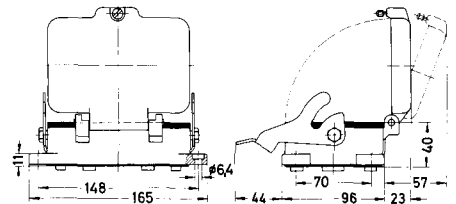
09 30 048 0440 29
09 30 048 0441 36
09 30 048 0442 42



Housings
bulkhead mounting

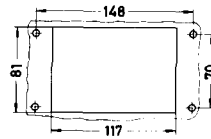


with thermo-
plastic cover
09 30 048 0301 -



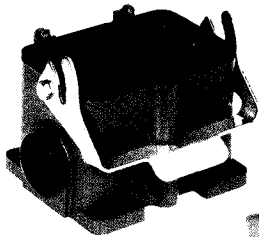
with metal cover
09 30 048 0317 -

Panel cut out

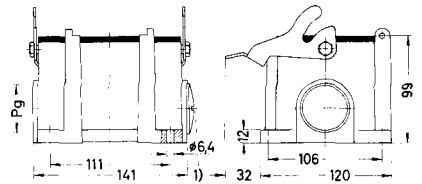


Housings
surface mounting

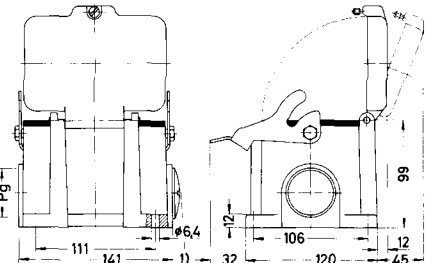
2 side-entries



09 30 048 0290 29
09 30 048 0291 36



with thermo-
plastic cover
09 30 048 0295 29
09 30 048 0296 36



with metal cover
09 30 048 2295 29
09 30 048 2296 36

¹⁾ Blind way