

Specifications

DIN VDE 0627
DIN VDE 0110

Approvals

UL, CE, 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

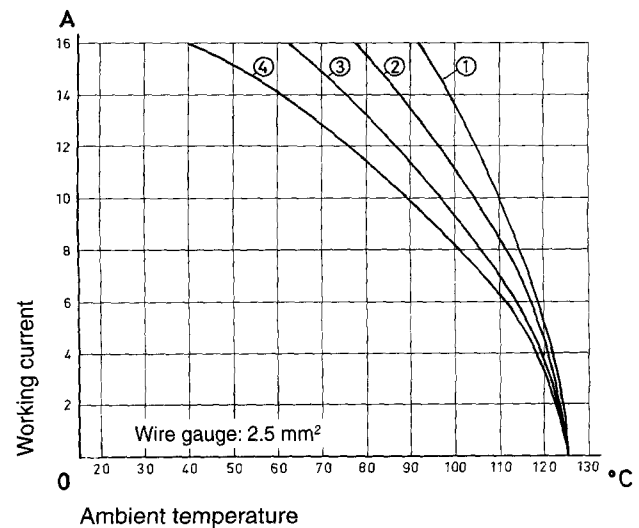
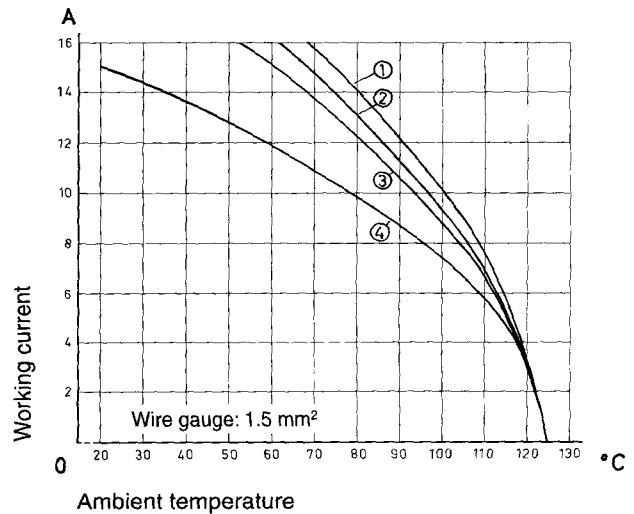
Accessories

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.

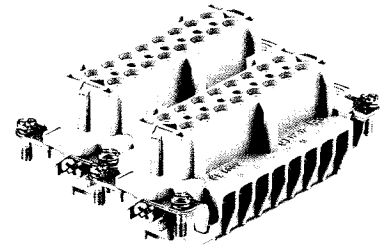
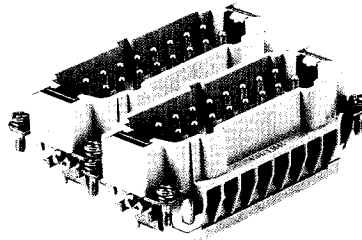
Control and test procedures according to DIN IEC 512-3.



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

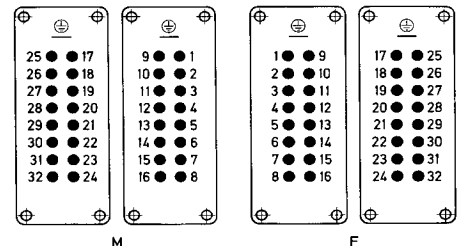
Number of contacts

32 +

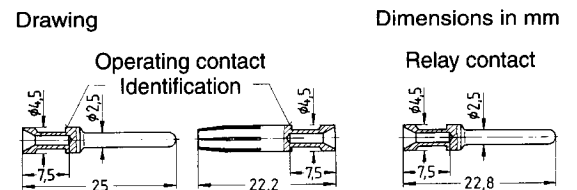


Inserts

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	Dimensions for inserts see page 03.22	
	17-32	09 33 016 2611	09 33 016 2711		
Cage-clamp terminal	Han ES				
	1-16	09 33 016 2616	09 33 016 2716	Contact arrangement View from termination side	
	17-32	09 33 016 2626	09 33 016 2726		
Cage-clamp terminal two terminals per contact	Han ESS				
	1-16	09 33 016 2672	09 33 016 2772	Panel cut out for inserts for use without hoods/housings	
	17-32	09 33 016 2672	09 33 016 2772		
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		



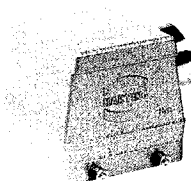
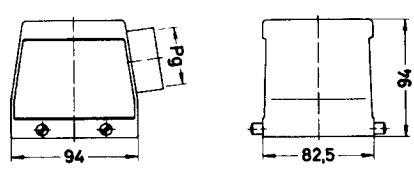

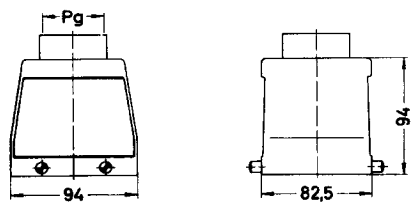
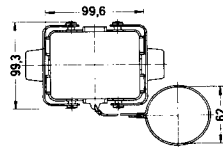
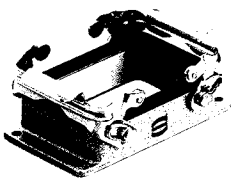
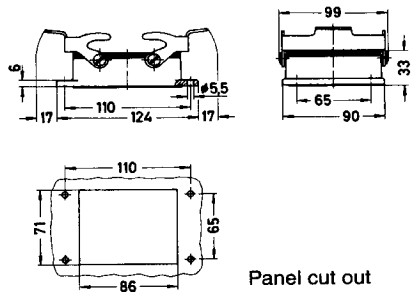
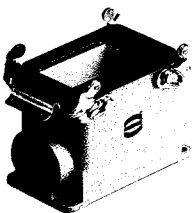
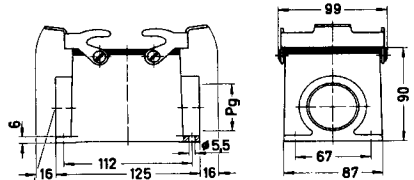
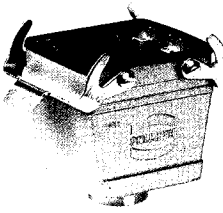
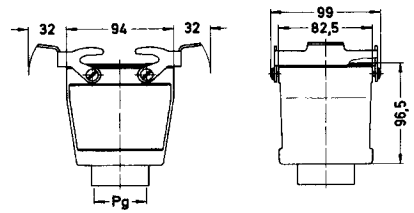
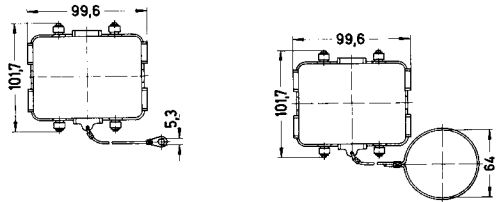
Identification	Wire gauge (mm²)	Part No.	
		Male contacts	Female contacts
Crimp contacts	0.5	09 33 000 6121	09 33 000 6220
Power contacts	0.75	09 33 000 6114	09 33 000 6214
	1.0	09 33 000 6105	09 33 000 6205
silver plated	1.5	09 33 000 6104	09 33 000 6204
	2.5	09 33 000 6102	09 33 000 6202
	3	09 33 000 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	



Identification	Wire gauge		Stripping length
	mm²	AWG	
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



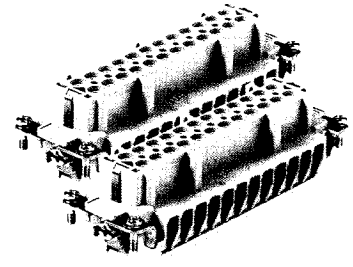
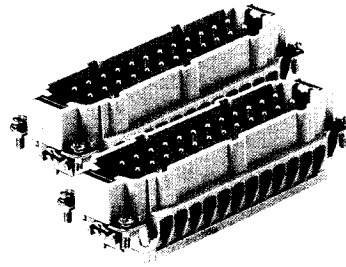
Identification	Part No.	Pg	Drawing	Dimensions in mm	
Hoods side-entry		09 30 032 0521	29		
		09 30 032 0522	36		
		09 30 032 0523	42		
Hoods top-entry		09 30 032 0421	29		
		09 30 032 0422	36		
		09 30 032 0423	42		
Protection cover for hoods	09 30 032 5420	—			
Housing bulkhead mounting		09 30 032 0301	—	 <p>Panel cut out</p>	
Housings surface mounting		1 side-entry	09 30 032 0231	29	 <p>Blind way for one cable entry</p>
			09 30 032 0232	36	
			09 30 032 0233	42	
	2 side-entries	09 30 032 0271	29		
		09 30 032 0272	36		
		09 30 032 0273	42		
Hoods cable to cable		09 30 032 0731	29		
	09 30 032 0732	36			
	09 30 032 0733	42			
Protection covers	for housings	09 30 032 5425	—		
		09 30 032 5426	—		
	for cable to cable hoods	09 30 032 5427	—		

Han® 48 E · Han® 48 ES



Number of contacts

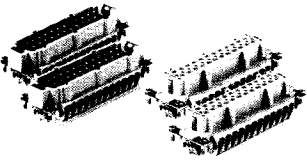
48 +



Inserts

Identification Series Male insert (M) Female insert (F) Drawing Dimensions in mm

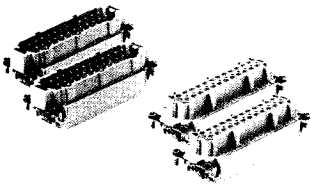
Screw terminal
with wire protection



Series	Male insert (M)	Female insert (F)
Han E		
1-24	09 33 024 2601	09 33 024 2701
25-48	09 33 024 2611	09 33 024 2711

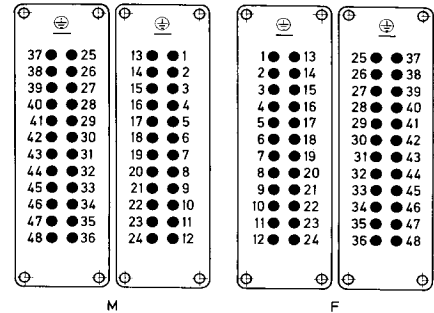
Dimensions for inserts see page 03.26

Cage-clamp terminal



Series	Male insert (M)	Female insert (F)
Han ES		
1-24	09 33 024 2616	09 33 024 2716
25-48	09 33 024 2626	09 33 024 2726

Contact arrangement View from termination side

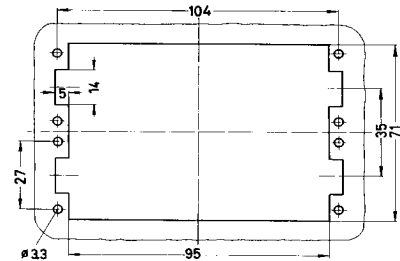


Cage-clamp terminal
two terminals per contact

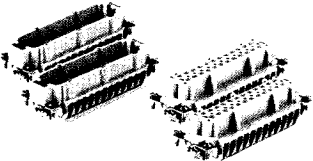


Series	Male insert (M)	Female insert (F)
Han ESS		
1-24	09 33 024 2672	09 33 024 2772
1-24	09 33 024 2672	09 33 024 2772

Panel cut out for inserts
for use without hoods/housings

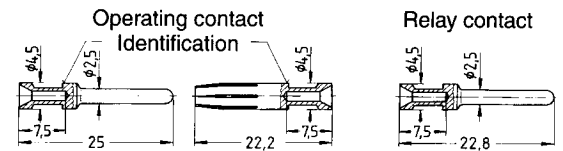


Crimp terminal
Order contacts separately



Identification	Wire gauge (mm²)	Male contacts	Female contacts
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Power contacts	0.75	09 33 000 6114	09 33 000 6214
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	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

Drawing Dimensions in mm



Crimp contact identification

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

* on the back crimp collar

Identification	Wire gauge (mm²)	Male contacts	Female contacts
Crimp contacts	0.5	09 33 000 6122	09 33 000 6222
Power contacts	0.75	09 33 000 6115	09 33 000 6215
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	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	