

Specifications	DIN VDE 0627 DIN VDE 0110
Approvals	SEV, BVS, CERCHAR, SABS
Inserts	
Number of contacts	3, 4, 10, 16, 32 (2 x 16) + PE
Working current	
Han 3 A	10 A max.
Han 4 A	10 A max.
Han 10 A + 16 A	16 A max.
(see current carrying capacity)	
Working voltage	
Han 3 A	230 / 400 V
Han 4 A	230 / 400 V
Han 10 A + 16 A	250 V
Test voltage $U_{rms}$	2 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	$\geq 500$
Working voltage acc. to UL/CSA (also Han 3 A / 4 A)	600 V

Contacts	
Material	copper alloy
Surface	
- hard-silver plated	3 $\mu\text{m}$ Ag
- hard gold plated	2 $\mu\text{m}$ Au over 3 $\mu\text{m}$ Ni
Contact resistance	$\leq 1 \text{ m}\Omega$
Crimp terminal	
- mm <sup>2</sup>	0.5 - 4.0 mm <sup>2</sup>
- AWG	20 - 12
Screw terminal	
- mm <sup>2</sup>	2.5 mm <sup>2</sup>
- AWG	14
- Tightening/test torque	0.5 Nm

Hoods/Housings	
Material	GD-Al Si 8
Han 3 A / 4 A additional	thermoplastic resin
Flammability acc. to UL 94	V 0
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
Han 3 A / 4 A	IP 44
	IP 65 with sealing screw

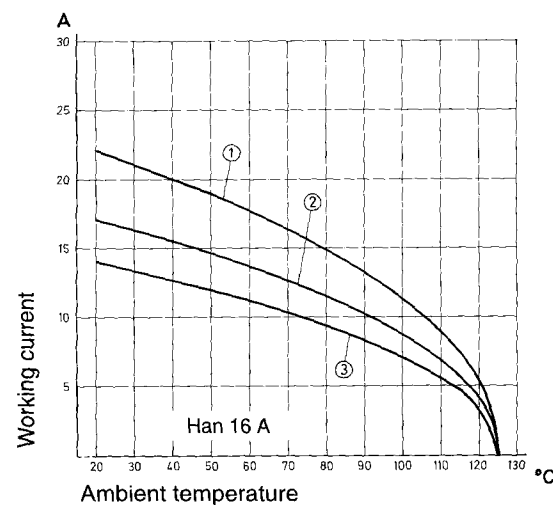
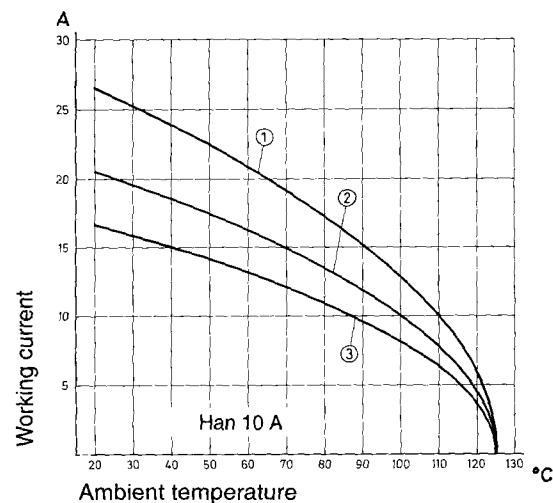
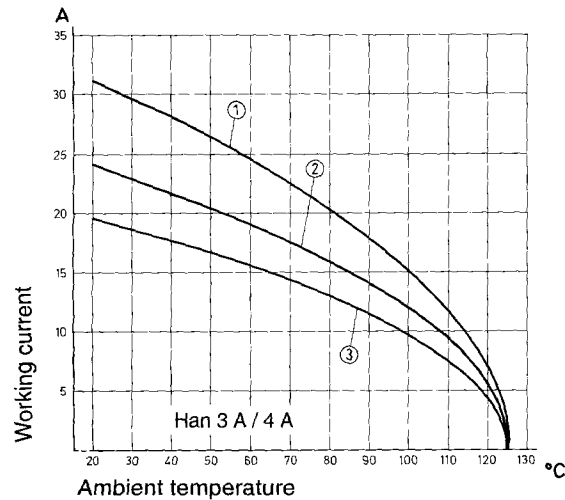
further selection of hoods/housings chapter 30

Accessories	
Crimping tools	chapter 12
Cable clamps	chapter 40
sealing screw	chapter 40
Coding of Hoods/Housings	chapter 40
Label acc. to CSA-approval	chapter 40
Test connectors	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.



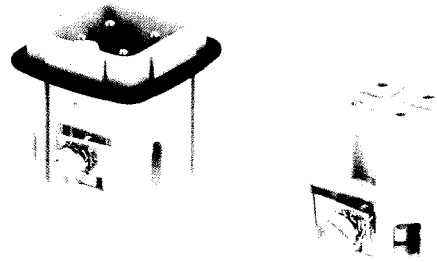
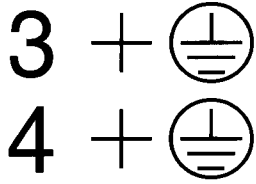
- ① Wire gauge: 2.5 mm<sup>2</sup>
- ② Wire gauge: 1.5 mm<sup>2</sup>
- ③ Wire gauge: 1.0 mm<sup>2</sup>

# Han<sup>®</sup> 3 A / 4 A

230 / 400 V 10 A



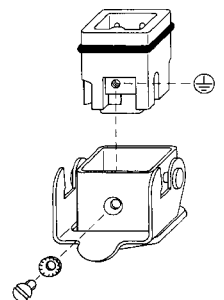
Number of contacts




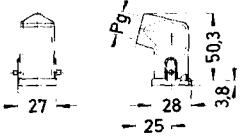

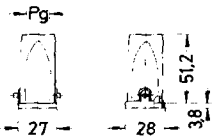


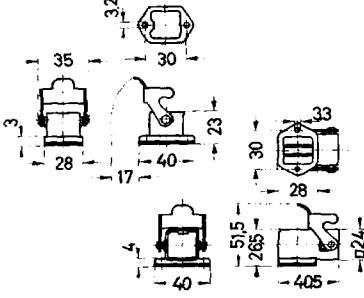

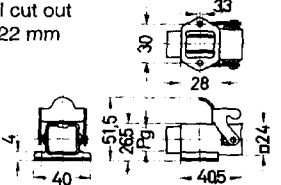

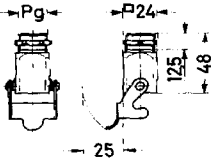

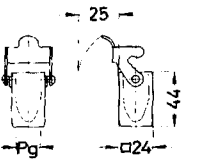
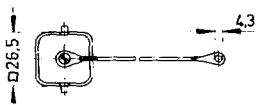
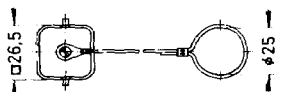
Inserts

Identification	Series	Part No.		Drawing	Dimensions in mm
		Male insert (M)	Female insert (F)		
Screw terminal	Han 3 A			View from termination side	
			09 20 003 2611		
			09 20 003 2711		
Screw terminal	Han 4 A			View from termination side	
			09 20 004 2611		
			09 20 004 2711		

Mounting example





Identification	Standard	Part No.		Pg	Drawing	Dimensions in mm
		Han M	Han U			
<b>Hoods</b> <i>side-entry</i> 	<b>09 20 003 1640</b>	<b>09 37 003 1640</b>	<b>09 36 003 1640</b>	11		
<b>Hoods</b> <i>top-entry</i> 	<b>09 20 003 1440</b>	<b>09 37 003 1440</b>	<b>09 36 003 1440</b>	11		
<b>Protection covers</b> for hoods <b>09 20 003 5422<sup>1)</sup></b> <b>09 20 003 5421<sup>2)</sup></b>		09 37 003 5402 <sup>1)</sup> 09 37 003 5401 <sup>2)</sup>	09 36 003 5402 <sup>1)</sup> 09 36 003 5401 <sup>2)</sup>			
<b>Housings</b> bulkhead mounting 	<b>09 20 003 0301</b>	<b>09 37 003 0301</b>	<b>09 36 003 0301</b>		Panel cut out 22 x 22 mm 	
<b>Housings</b> surface mounting 1 side-entry 	<b>09 20 003 1250</b>	<b>09 37 003 1250</b>	<b>09 36 003 1250</b>	11	Panel cut out 22 x 22 mm 	
<b>Housings</b> bottom closed <b>09 20 003 1252</b>						
<b>Housings</b> screw mounting 	<b>09 20 003 0102</b>		<b>09 36 003 0102</b>	13,5		
<b>Hoods</b> cable to cable 	<b>09 20 003 1750</b>	<b>09 37 003 1750</b>	<b>09 36 003 1750</b>	11		
<b>Protection covers</b> for housings <b>09 20 003 5426<sup>1)</sup></b> <b>09 20 003 5425<sup>2)</sup></b>		09 37 003 5406 <sup>1)</sup> 09 37 003 5405 <sup>2)</sup>	09 36 003 5406 <sup>1)</sup> 09 36 003 5405 <sup>2)</sup>			
for hoods cable to cable <b>09 20 003 5428<sup>1)</sup></b> <b>09 20 003 5427<sup>2)</sup></b>		09 37 003 5408 <sup>1)</sup> 09 37 003 5407 <sup>2)</sup>	09 36 003 5408 <sup>1)</sup> 09 36 003 5407 <sup>2)</sup>			

<sup>1)</sup> for mounted male insert    <sup>2)</sup> for mounted female insert

# Hoods/Housings thermoplastic

Size 3 A



Identification	Part No.	Pg	Drawing	Dimensions in mm
Hoods side-entry	grey 09 20 003 0620	11		
	black 09 20 003 0627	11		
Hoods top-entry	grey 09 20 003 0420	11		
	black 09 20 003 0427	11		
Protection covers for hoods	09 20 003 5442 <sup>1)</sup> 09 20 003 5441 <sup>2)</sup>			
Housings bulkhead mounting	grey 09 20 003 0320 black 09 20 003 0327 grey 09 20 003 0820 black 09 20 003 0827	- - - -		Panel cut out 22 x 22 mm
Housings surface mounting	1 side-entry grey 09 20 003 0220 black 09 20 003 0227	11 11		Panel cut out 22 x 22 mm
Housings screw mounting	grey 09 20 003 0120 black 09 20 003 0127	13.5 13.5		
Hoods cable to cable	grey 09 20 003 0720 black 09 20 003 0727	11 11		
Protection covers for housings	A 09 20 003 5407 <sup>1)</sup> <sup>3)</sup> 09 20 003 5408 <sup>2)</sup> <sup>3)</sup> B 09 20 003 5446 <sup>1)</sup> 09 20 003 5445 <sup>2)</sup> C 09 20 003 5448 <sup>1)</sup>			
for hoods cable to cable				

<sup>1)</sup> for mounted male insert  
<sup>2)</sup> for mounted female insert  
<sup>3)</sup> for metal housings and cable to cable hoods also