

Features

- ❑ 5 contact chambers for the power contacts of the series Han E (16 A)
- ❑ Space-saving and compact design
- ❑ Leading protective ground with screw terminal
- ❑ Crimp terminal with standard Han E contacts
- ❑ Use of standard tools
- ❑ Compatible with metal and plastic hoods of the series Han 3 A / 4 A
- ❑ The contacts can be removed with the aid of a removal tool from the termination side
- ❑ Degree of protection IP 65²⁾

Technical characteristics

Specifications DIN VDE 0627
 DIN VDE 0110

Approvals

Inserts

Number of contacts	5 + PE
Working current (see current carrying capacity)	16 A max.
Working voltage	230/400 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	≥ 500

Contacts

Material	copper alloy
Surface	
- hard-silver plated	3 μ m Ag
- hard-gold plated	2 μ m Au over 3 μ m Ni
Contact resistance	$\leq 1 \text{ m}\Omega$
Crimp terminal	
- mm ²	0.5 - 2.5 mm ²
- AWG	20 - 14

Plastic Hoods/Housings

Material	Polycarbonate RAL 7032
Locking element	Polyamide RAL 7032
Hoods/Housings sealing	NBR
Temperature range	- 40 °C ... + 125 °C
Flammability acc. to UL 94	V 0
Degree of protection acc. to DIN 40 050 for coupled connector	IP 65 ¹⁾

Metal Hoods/Housings

Material	die cast zinc alloy
Surface	powder-coated RAL 7037 (grey)
Locking element	steel, galvanized
Hoods/Housings sealing	NBR
Temperature range	- 40 °C ... + 125 °C
Degree of protection acc. to DIN 40 050 for coupled connector	IP 44 ²⁾

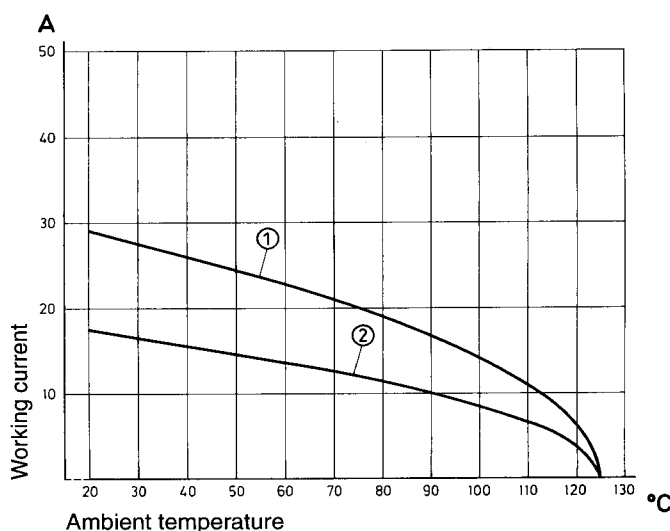
Accessories

Crimping tools	chapter 12
Cable clamps	chapter 40
IP 65 fixing screw	chapter 40

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 mm²
- ② Wire gauge: 1.5 mm²

¹⁾ without washer

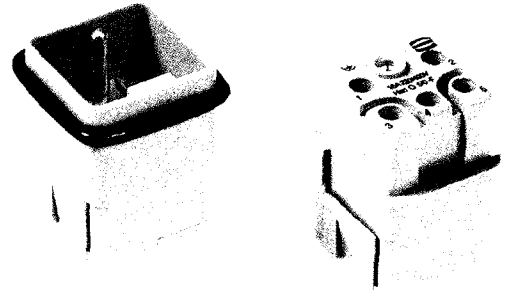
²⁾ IP 65 will be achieved with sealing screw 09 20 000 9918

Han® Q 5/0



Number of contacts

5 +



Inserts

Identification	Part No.		Drawing	Dimensions in mm
	Male insert (M)	Female insert (F)		
Crimp terminal Order crimp contacts separately	09 12 005 3001			
		09 12 005 3101		

Contact arrangement
View from termination side

Coding with loss of one contact

09 33 000 9915

To avoid accidental incorrect mating of adjacent connectors a coding system is required. Coding is effected – by means of a code pin. For this reason a female contact has to be inserted into the selected chamber. The code pin has to be assembled into this contact from the mating side. The opposite male contact is omitted.

Mounting example



Identification	Wire gauge (mm ²)	Part No.		Drawing	Dimensions in mm																								
		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																										
	0.5	09 33 000 6122	09 33 000 6222	Crimp contact identification																									
	0.75	09 33 000 6115	09 33 000 6215	<table border="1"> <thead> <tr> <th>Identification</th> <th colspan="2">Wire gauge</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> </tbody> </table>		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
Identification	Wire gauge		Stripping length																										
no groove	0.5 mm ²	AWG 20	7.5 mm																										
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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																										
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																										
Relay contact	0.75-1	09 33 000 6109																											
silver plated	1.5	09 33 000 6110																											
	2.5	09 33 000 6111																											

* on the back crimp collar

Stock items in bold type

Identification	Standard	Part No.			Pg	Drawing	Dimensions in mm
		Han M	Han U				
Hoods side-entry	09 20 003 1640	09 37 003 1640	09 36 003 1640	11			
Hoods top-entry	09 20 003 1440	09 37 003 1440	09 36 003 1440	11			
Protection covers for hoods	09 20 003 5422¹⁾ 09 20 003 5421²⁾	09 37 003 5402¹⁾ 09 37 003 5401²⁾	09 36 003 5402¹⁾ 09 36 003 5401²⁾				
Housings bulkhead mounting	09 20 003 0301	09 37 003 0301	09 36 003 0301	-		Panel cut out 22 x 22 mm	
Housings surface mounting 1 side-entry	09 20 003 1250	09 37 003 1250	09 36 003 1250	11		Panel cut out 22 x 22 mm	
Housings bottom closed	09 20 003 1252						
Housings screw mounting	09 20 003 0102		09 36 003 0102	13,5			
Hoods cable to cable	09 20 003 1750	09 37 003 1750	09 36 003 1750	11			
Protection covers for housings	09 20 003 5426¹⁾ 09 20 003 5425²⁾	09 37 003 5406¹⁾ 09 37 003 5405²⁾	09 36 003 5406¹⁾ 09 36 003 5405²⁾				
Protection covers for hoods cable to cable	09 20 003 5428¹⁾ 09 20 003 5427²⁾	09 37 003 5408¹⁾ 09 37 003 5407²⁾	09 36 003 5408¹⁾ 09 36 003 5407²⁾				

¹⁾ for mounted male insert ²⁾ for mounted female insert



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 5442¹⁾ 09 20 003 5441²⁾			
Housings bulkhead mounting	grey 09 20 003 0320	-		Panel cut out 22 x 22 mm
	black 09 20 003 0327	-		
	grey 09 20 003 0820	-		
	black 09 20 003 0827	-		
Housings surface mounting	1 side-entry grey 09 20 003 0220	11		Panel cut out 22 x 22 mm
	black 09 20 003 0227	11		
Housings screw mounting	grey 09 20 003 0120	13.5		
	black 09 20 003 0127	13.5		
Hoods cable to cable	grey 09 20 003 0720	11		
	black 09 20 003 0727	11		
Protection covers for housings	A 09 20 003 5407¹⁾³⁾ 09 20 003 5408²⁾³⁾			
	B 09 20 003 5446¹⁾ 09 20 003 5445²⁾			
	for hoods cable to cable C 09 20 003 5448¹⁾			

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

Features

- ❑ Angled housing replaces the terminal box
- ❑ The position of the terminal housing can be switched by 90°
- ❑ Han E standard connector can be used
- ❑ Compatible with standard hoods for single lever latching
- ❑ Also suitable for special products such as Han K 8/24 or Han-Modular®
- ❑ Star and delta circuits can be realized in the female connector Han ESS

Technical characteristics

Hoods/Housings

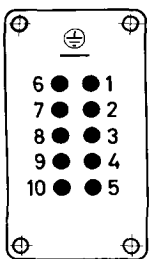
Material	GD-Al Si 8
Surface	powder-coated RAL 7037 ¹⁾
Locking element	Steel, zinc plated
Hoods/Housings sealing	NBR
Temperature range	- 40 °C ... + 125 °C
Degree of protection acc. to DIN 40 050 for coupled connector	IP 65

¹⁾ Other colours on request

Compatible connector inserts

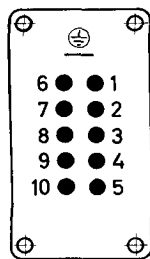
Han
Drive

Screw terminal
400 V
16 A
Han E



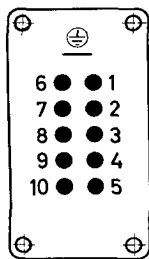
10 + ⊕

Cage-clamp terminal
500 V
16 A
Han ES
Han ESS



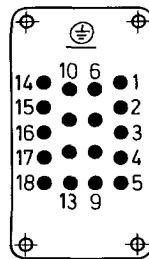
10 + ⊕

Crimp terminal
400 V
16 A
Han E



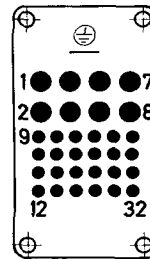
10 + ⊕

Crimp terminal
500 V
16 A
Han EE



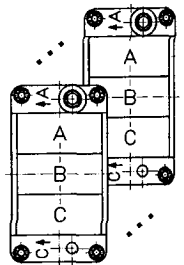
18 + ⊕

Crimp terminal
400/250 V
16/10 A
Han-Com

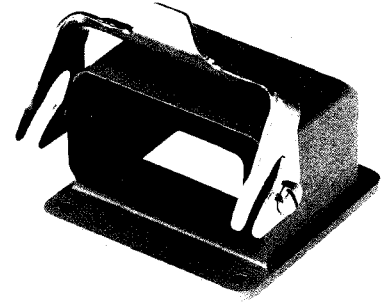


8/24 + ⊕

Crimp terminal
50 V – 1000 V
10 A – 40 A



Han-Modular + ⊕



Identification

Part No.

Drawing

Dimensions in mm

Housing for motor terminations

powder-coated RAL 7037

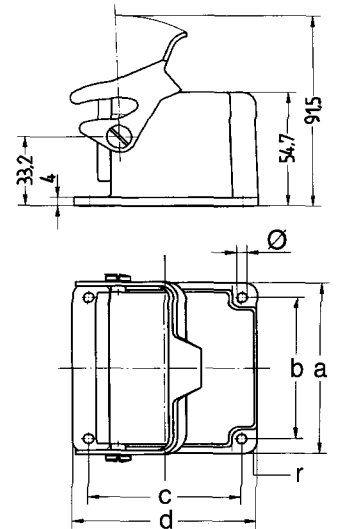
09 30 010 0901

09 30 010 0902

unpainted

09 30 410 0909

a	b	c	d	Ø	r
82	68	68	82	4,5	6
98	-	-	98	-	6
98	-	-	98	-	6



Protection covers

on request

Identification

Part No.

Low construction

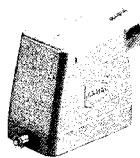
High construction

Pg

Drawing

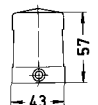
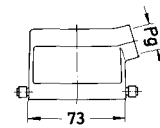
Dimensions in mm

Hoods
side-entry



09 30 010 1541

16

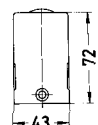
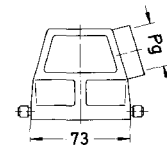


09 30 010 0542

21

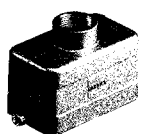
09 30 010 0543

29



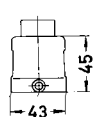
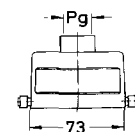
Hoods

Hoods
top-entry



09 30 010 1441

16

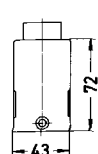
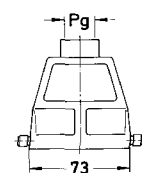


09 30 010 0442

21

09 30 010 0443

29



Stock items in bold type