

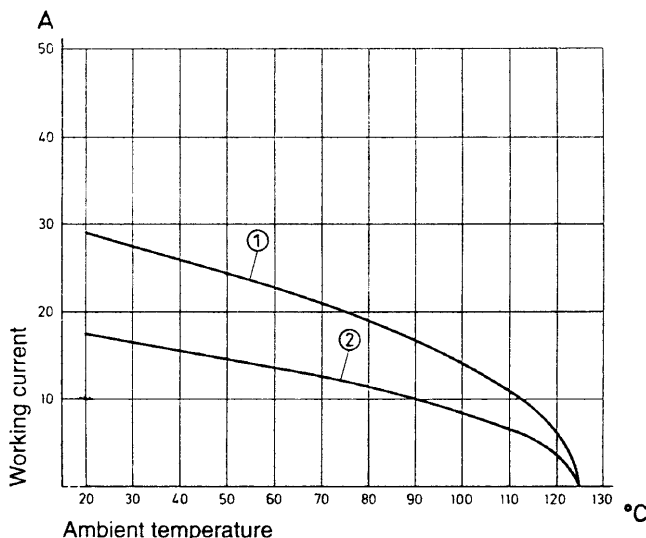
Features

- 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⁾

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 60 512-3.



- ① Wire gauge: 2.5 mm²
- ② Wire gauge: 1.5 mm²

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
Working voltage acc. to UL/CSA	600 V
Test voltage U _{rms}	2 kV
Pollution degree	3 (C)
Insulation resistance	≥ 10 ¹⁰ Ω
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 μm Ag
- hard-gold plated	2 μm Au over 3 μm Ni
Contact resistance	≤ 1 mΩ
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

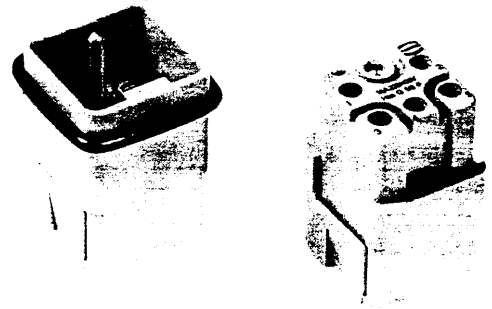
Crimping tools	chapter 12
Cable clamps	chapter 40
IP 65 fixing screw	chapter 40

¹⁾ without washer

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

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		

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




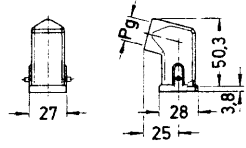

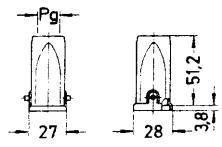
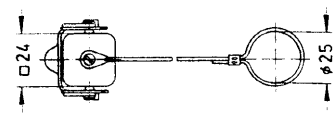

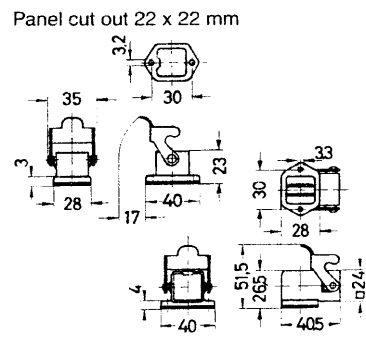

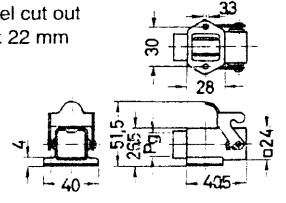

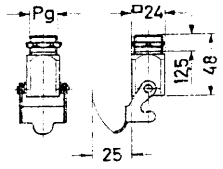

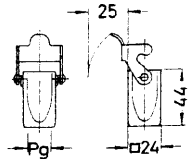
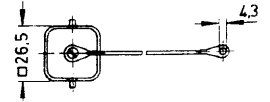
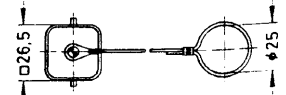
Identification	Wire gauge (mm²)	Part No.		Drawing	Dimensions in mm
		Male contacts	Female contacts		
Crimp contacts Power contacts silver plated	0.5	09 33 000 6121	09 33 000 6220		
	0.75	09 33 000 6114	09 33 000 6214		
	1.0	09 33 000 6105	09 33 000 6205		
	1.5	09 33 000 6104	09 33 000 6204		
	2.5	09 33 000 6102	09 33 000 6202		
gold plated	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		
	1.5	09 33 000 6116	09 33 000 6216		
	2.5	09 33 000 6123	09 33 000 6223		
Relay contact silver plated	0.75-1	09 33 000 6109			
	1.5	09 33 000 6110			
	2.5	09 33 000 6111			

Crimp contact identification

Identification	Wire gauge		Stripping length
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

* on the back crimp collar



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 	
	09 20 003 0801	09 37 003 0801	09 36 003 0801	—		
Han Drive 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 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⁾			
	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

Hoods/Housings

thermoplastic

Size 3 A



Identification

Part No.

Pg

Drawing

Dimensions in mm

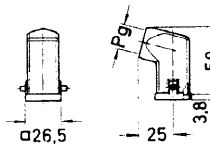
Hoods
side-entry



grey
09 20 003 0620

black
09 20 003 0627

11
11



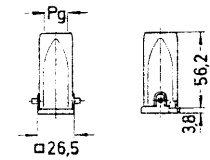
Hoods
top-entry



grey
09 20 003 0420

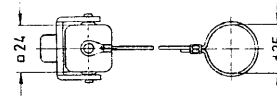
black
09 20 003 0427

11
11



Protection covers
for hoods

09 20 003 5442¹⁾
09 20 003 5441²⁾



Housings bulkhead mounting

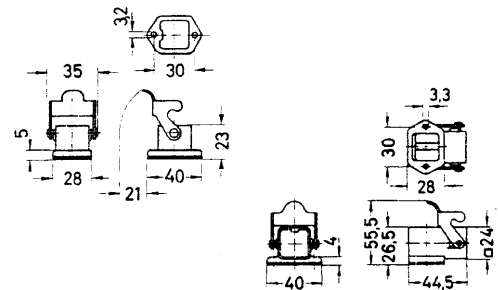


grey
09 20 003 0320

black
09 20 003 0327

-
-

Panel cut out 22 x 22 mm



grey
09 20 003 0820

black
09 20 003 0827

-
-

Housings
surface mounting

1 side-entry

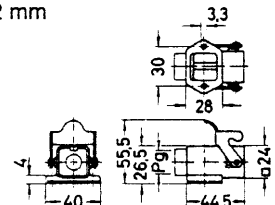


grey
09 20 003 0220

black
09 20 003 0227

11
11

Panel cut out 22 x 22 mm



Hand
Drive

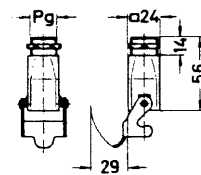
Housings
screw mounting



grey
09 20 003 0120

black
09 20 003 0127

13.5
13.5



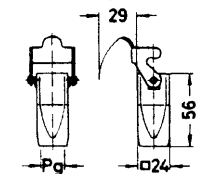
Hoods cable to cable



grey
09 20 003 0720

black
09 20 003 0727

11
11

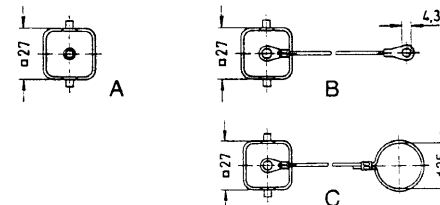


Protection covers
for housings

A **09 20 003 5407¹⁾³⁾**
09 20 003 5408²⁾³⁾

B **09 20 003 5446¹⁾**
09 20 003 5445²⁾

C **09 20 003 5448¹⁾**



for hoods cable to cable

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

Stock items in bold type