

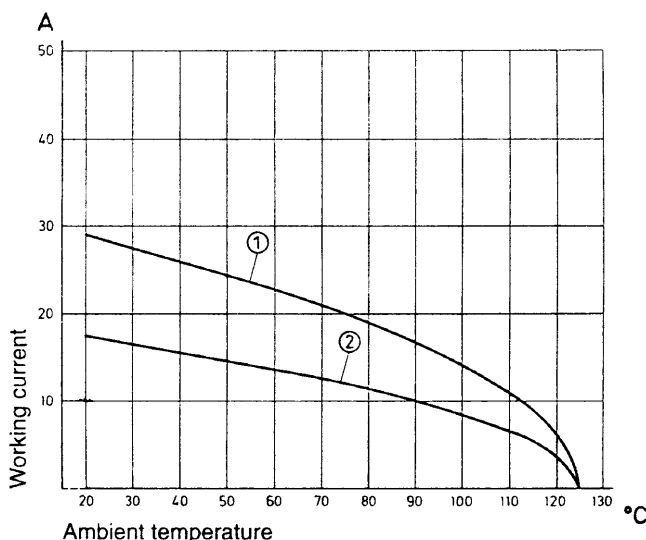
Features

- ☐ 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

¹⁾ without washer

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

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

Number of contacts

5 +

Inserts

Identification

Crimp terminal

Order crimp contacts separately

Part No.

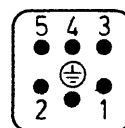
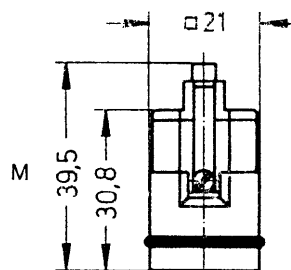
Male insert (M)

Female insert (F)

Drawing

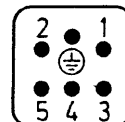
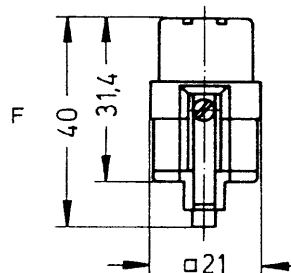
Dimensions in mm

09 12 005 3001



Contact arrangement
View from termination side

09 12 005 3101

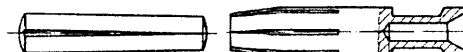


Coding with loss
of one contact

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

Part No.

Male contacts

Female contacts

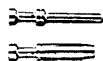
Drawing

Dimensions in mm

Crimp contacts

Power contacts

silver plated



0.5
0.75
1.0
1.5
2.5

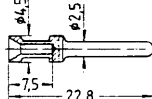
09 33 000 6121
09 33 000 6114
09 33 000 6105
09 33 000 6104
09 33 000 6102

09 33 000 6220
09 33 000 6214
09 33 000 6205
09 33 000 6204
09 33 000 6202

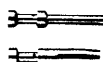
Operating contact
Identification



Relay contact



gold plated



0.5
0.75
1.0
1.5
2.5

09 33 000 6122
09 33 000 6115
09 33 000 6118
09 33 000 6116
09 33 000 6123

09 33 000 6222
09 33 000 6215
09 33 000 6218
09 33 000 6216
09 33 000 6223

Crimp contact identification

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

Relay contact
silver plated

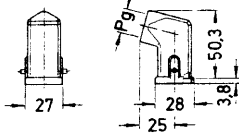
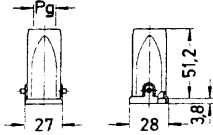
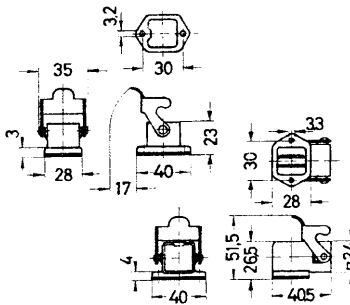
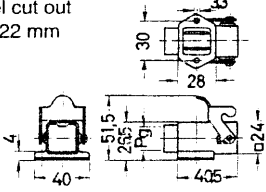
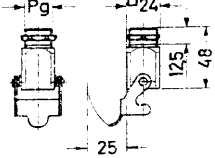
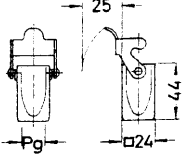
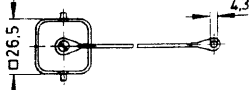
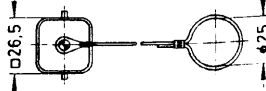


0.75-1
1.5
2.5

09 33 000 6109
09 33 000 6110
09 33 000 6111

* on the back crimp collar

Stock items in bold type

Identification	Standard	Part No. Han M	Han U	Pg	Drawing	Dimensions in mm
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 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

Identification

Part No.

Pg

Drawing

Dimensions in mm

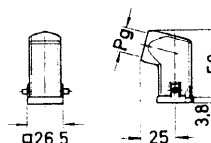
Hoods
side-entry

grey
09 20 003 0620

11

black
09 20 003 0627

11



Hoods

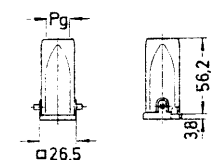
Hoods
top-entry

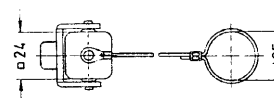
grey
09 20 003 0420

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

—

black
09 20 003 0327

—

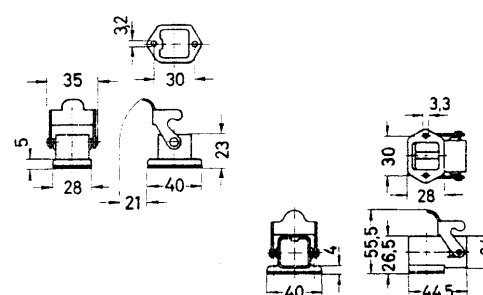

grey
09 20 003 0820

—

black
09 20 003 0827

—

Panel cut out 22 x 22 mm


Housings
surface mounting

1 side-entry

grey
09 20 003 0220

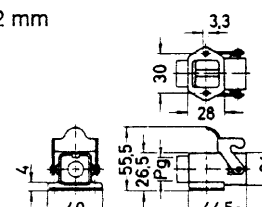
11

black
09 20 003 0227

11



Panel cut out 22 x 22 mm


Han
Drive

Housings

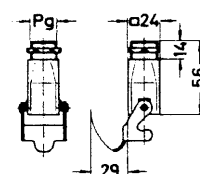
Housings screw mounting


grey
09 20 003 0120

13.5

black
09 20 003 0127

13.5



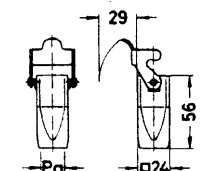
Hoods cable to cable


grey
09 20 003 0720

11

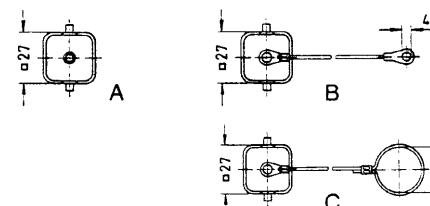
black
09 20 003 0727

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⁾

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