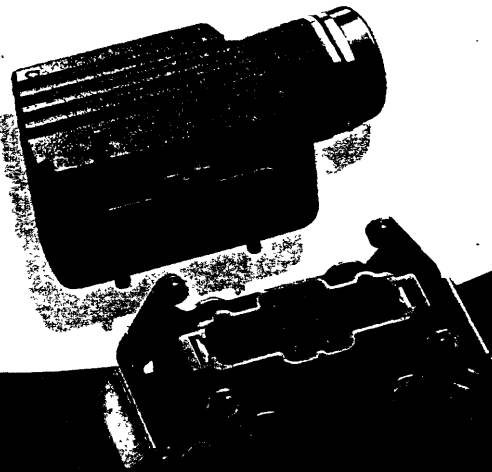


658 - 480 TO 509 102

659 - 368 TO 460

# Heavy Duty Connectors Han-Com<sup>®</sup>



Certified according to DIN ISO 9001  
in design/development, production  
installation and service

## The best connections world-wide - connect with quality - specify HARTING

HARTING Elektronik GmbH was founded in 1945 and is 100 % privately owned.

Approximately 1,600 people are employed worldwide including 150 engineers and more than 100 sales engineers who provide the daily interface with our customers.

HARTING with its 15 subsidiaries in Europe, North America and Asia is today one of the world's leading connector manufacturers.

All the company's manufacturing plants, with the exception of Plant 1 in Espelkamp, have been built within the last ten years.

State of the art CAD-Systems are used both in the R & D department and the tool making department in order to bring new products to the market in the most efficient way.

It is HARTING's philosophy that the target of permanent zero defect production is only achievable by the integration of fully automatic in-line inspection processes.

The implementation of the above quality philosophy and associated processes are documented according to DIN ISO 9001 in the Quality Assurance Manual.

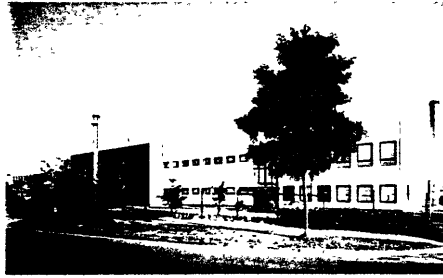
In total approximately 60 quality control personnel are employed. The majority of these engineers and technicians are trained and certified by the German (DCQ) or Swiss (SAQ) quality organisations. The divisions electronic connectors, heavy duty connectors Han® and solenoids are certified according to DIN ISO 9001 for design/R & D, production, assembly and customer service.

The dedication to quality and the ability to deliver on a "Just in Time" basis have led to the development of strong relationships with leading original equipment manufacturers on the world market.

HARTING is the market leader in several of its product ranges.



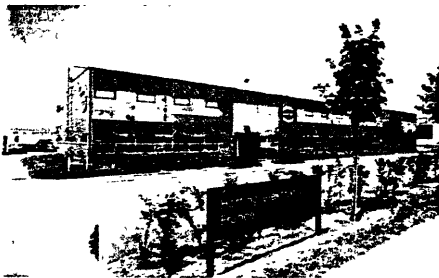
Germany - Plant 1 Espelkamp



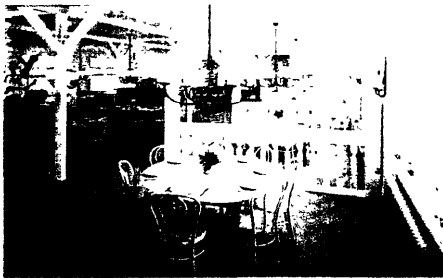
Germany - Plant 2 Espelkamp



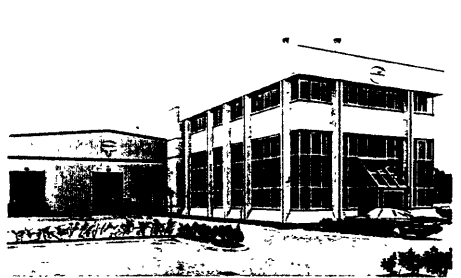
Germany - Plant 3 Espelkamp



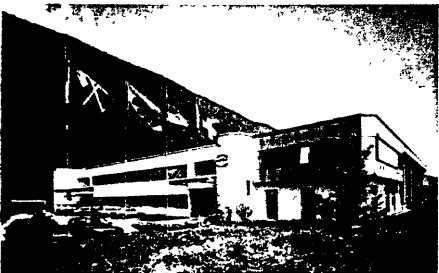
France - Sales and marketing



Espelkamp - Staff Cafeteria



United Kingdom - Production, sales and marketing



Switzerland - Production plant



Hong Kong - Production, sales and marketing



Italy - Sales and marketing

## Han-Com®

Page

Specifications, Approvals	05.02
Summary	05.03
Han K 8/24	05.10
Han K 4/0, 4/2	05.14
Han K 6/12	05.16
Han K 6/36	05.18
Han K 12/2 (HsC 12)	05.20
Han K 4/8	05.24
Han K 6/6	05.26
Assembly details for Han K 6/6	05.30
Hoods/Housings with 2 levers on the hood	05.33
Hoods/Housings for 2 inserts	05.34
Hoods/Housings with central lever	05.36
Hoods/Housings for harsh environmental requirements Han M	05.37
Pressure tight housings HP	05.38
EMC Hoods/Housings	05.38
Hoods for special applications	05.39
Cable entry protection	05.40
Accessories	05.42
Crimping tools	05.43
List of part numbers	05.48

## Economic and Reliable Connections

### Specifications

VDE 0110 table 4, concerning clearances and creepage-distances

VDE 0627 Connectors

### Note

**Connectors should not be coupled and decoupled under electrical load. Connectors of the same or different series being mounted side by side may be protected against incorrect mating by the use of coding options.**

### Approvals

UL, CSA, SEV for inserts and hoods/housings

Han M hoods/housings for harsh environmental requirements  
DET NORSKE VERITAS (DNV)

### Terminations

- Screw terminal
- Crimp terminal

### Inserts

- Leading protective ground
- Polarised for correct mating
- Interchangeability of male and female inserts in hoods and housings
- Captive fixing screws
- Can be used with hoods and housings, or for rack and panel applications
- Compact design
- Power and signal contacts in one connector

### Hoods/Housings

- Standard Hoods/Housings IP 65
- Hoods/Housings for harsh environmental requirements IP 65
- Pressure tight housings IP 68
- EMC Hoods/Housings
- Electrical connection with protective ground
- High mechanical strength and vibration-resistance ensured by locking levers
- Spring-loaded and lockable covers in shockproof thermoplastic or metal

### Accessories

- Extensive range of cable protection and sealing accessories
- Protective covers available
- Coding options for incorrect mating protection
- Diverse crimping tools

For "non standard applications" we can manufacture designs to match your requirements.  
Please discuss requirements with us.

HARTING-heavy duty connectors incorporate the latest design features and provide the assurance of high quality and reliability with economy.

Sales Department  
HARTING-Components



Certified according to DIN ISO 9001 in design/development, production, installation and servicing

### General information

It is the user's responsibility to check whether the components illustrated in this catalogue comply with different regulations from those stated in special fields of application which we are unable to foresee.

We reserve the right to modify designs in order to improve quality, keep pace with technological advancement or meet particular requirements in production.

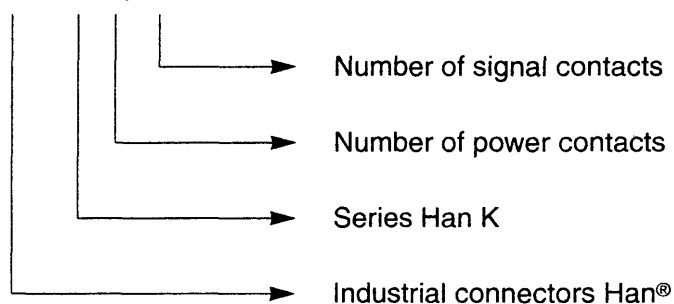
This catalogue must not be used in any form or manner without our prior approval in writing (Copyright Law, Fair Trading Law, Civil Code).  
We are bound by the German version only.

## Summary

Type	Technical characteristics								Suitable Han Hoods/ Housings Size
	Number of pins	Power area			Number of pins	Signal area			
		A	V~	Termination		A	V~	Termination	
Han K 4/0	4+PE	80	690	screw	-				16 , 32
4/2	4+PE	80	690	screw	2	16	400	screw	16 , 32
4/8	4+PE	80	400	screw	8	16	400	screw	24 , 48
6/6	6+PE	100	690	screw	6	16	400	screw	24 , 48
6/12	6+PE	40	690	screw	12	10	400	screw	16 , 32
6/36	6+PE	40	690	crimp	36	10	250	crimp	16 , 32
8/24	8+PE	16	400	crimp	24	10	250	crimp	10
12/2	12+PE	40	690	crimp	2	10	250	crimp	16 , 32

## Type identification

### Han K 6/12



## Identification of contact position

- Han K connectors in the power area from 1 to ...  
in the signal area from 11 to ...
- Han K 4/8 and Han K 8/24 consecutively from 1 to ...
- Han K 12/2 in the power area from 1 to 12  
in the signal area with "a" and "b"

## Note – Technical characteristics

- The number before the slash goes for the power area
- The number behind the slash goes for the signal area

# Standard Hoods/Housings with 2 levers on the housing



Identification	Part No.		Pg	Drawing	Dimensions in mm
	Low construction	High construction			
Hoods side-entry		09 30 010 1521	16		
		09 30 010 0522	21		
		09 30 010 0523	29		
Hoods top-entry		09 30 010 1421	16		
		09 30 010 0422	21		
		09 30 010 0423	29		
Protection cover metal		09 30 010 5401			
		09 30 010 5423			
Housings bulkhead mounting		09 30 010 0301			
Housings surface mounting	1 side-entry	09 30 010 1231	16		
		09 30 010 0232	21		
	2 side-entry	09 30 010 1271	16		
		09 30 010 0272 09 30 010 0273	21 29		
Protection covers metal		09 30 010 5407			
		09 30 010 5425			
Hoods cable to cable		09 30 010 1731	16		
Protection covers metal		09 30 010 5427			

Panel cut out 60 x 35

Blind way for one cable entry

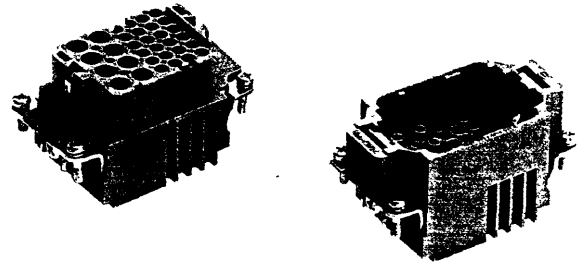
	a	b	h
Low construction	40	52	54
High construction	45	57	74

# Han K 8/24

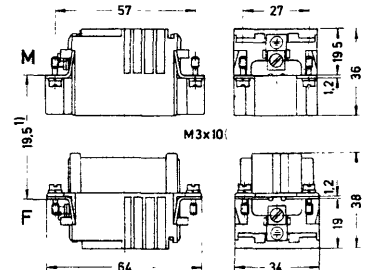


Number of contacts

## 8/24 +

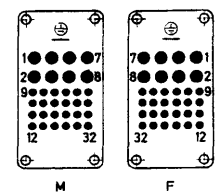


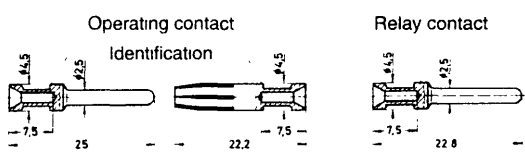


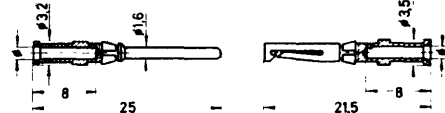

### Inserts

Identification	Series	Part No.		Drawing	Dimensions in mm
		Male insert (M)	Female insert (F)		
Crimp terminal Order contacts separately	Han K				
	8/24	09 38 032 3001	09 38 032 3101		

<sup>1)</sup> Distance for contact max. 21 mm

Contact arrangement  
View from termination side



Identification	Wire gauge (mm <sup>2</sup> )	Part No.		Drawing	Dimensions in mm	
		Male contacts	Female contacts			
Crimp contacts Power contacts	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			
	4.0	09 33 000 6107	09 33 000 6207			
	silver 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
		4.0	09 33 000 6119			09 33 000 6221
Relay contact silver plated 	0.75-1	09 33 000 6109				
	1.5	09 33 000 6110				
	2.5	09 33 000 6111				
Signal contacts	0.14-0.37	09 15 000 6104	09 15 000 6204			
	0.5	09 15 000 6103	09 15 000 6203			
	0.75	09 15 000 6105	09 15 000 6205			
	1.0	09 15 000 6102	09 15 000 6202			
	1.5	09 15 000 6101	09 15 000 6201			
	2.5	09 15 000 6106	09 15 000 6206			
	gold plated 	0.14-0.37	09 15 000 6124			09 15 000 6224
		0.5	09 15 000 6123			09 15 000 6223
		0.75	09 15 000 6125			09 15 000 6225
		1.0	09 15 000 6122			09 15 000 6222
		1.5	09 15 000 6121			09 15 000 6221
		2.5	09 15 000 6126			09 15 000 6226
FOC contacts for 1 mm plastic fibre		20 10 001 3211	20 10 001 3221			

Identification	Wire gauge	Stripping length
no groove	0.5 mm <sup>2</sup>	AWG 20 7.5 mm
1 groove*	0.75 mm <sup>2</sup>	AWG 18 7.5 mm
1 groove	1.0 mm <sup>2</sup>	AWG 18 7.5 mm
2 grooves	1.5 mm <sup>2</sup>	AWG 16 7.5 mm
3 grooves	2.5 mm <sup>2</sup>	AWG 14 7.5 mm
no groove	4.0 mm <sup>2</sup>	AWG 12 7.5 mm


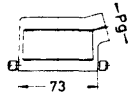

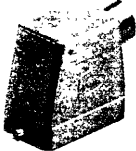
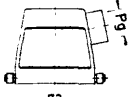

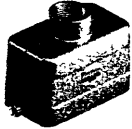
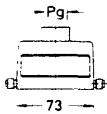


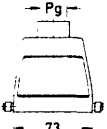



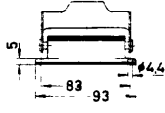
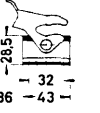
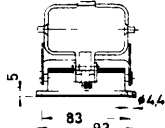
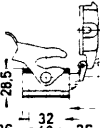
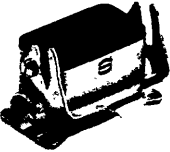
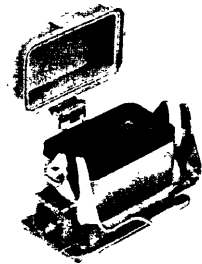
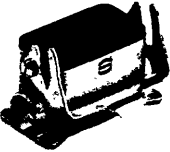
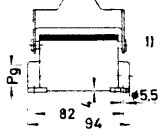
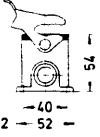
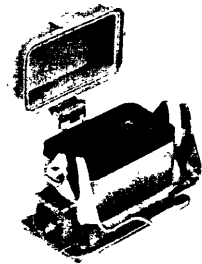
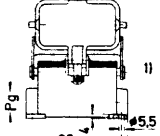
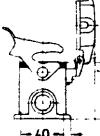
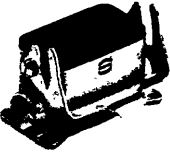
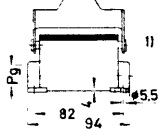
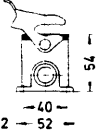
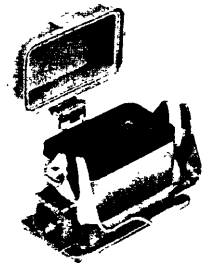
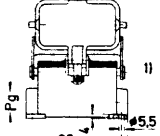
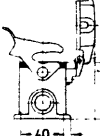
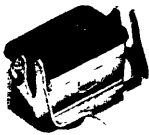
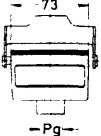
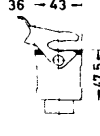
\* on crimp collar at the back

Wire gauge	σ	Stripping length
0.14-0.37 mm <sup>2</sup>	AWG 26-22	0.90 mm 8 mm
0.5 mm <sup>2</sup>	AWG 20	1.10 mm 8 mm
0.75 mm <sup>2</sup>	AWG 18	1.30 mm 8 mm
1.0 mm <sup>2</sup>	AWG 18	1.45 mm 8 mm
1.5 mm <sup>2</sup>	AWG 16	1.75 mm 8 mm
2.5 mm <sup>2</sup>	AWG 14	2.25 mm 6 mm

Cable and tools see catalogue "Fibre Optic Data Link Systems".

# Standard Hoods/Housings with 1 lever on the housing



Identification	Part No.		Pg	Drawing	Dimensions in mm
	Low construction	High construction			
<b>Hoods side-entry</b>		09 30 010 1541	16		
		09 30 010 0542	21		
		09 30 010 0543	29		
<b>Hoods top-entry</b>		09 30 010 1441	16		
		09 30 010 0442	21		
		09 30 010 0443	29		
<b>Housings bulkhead mounting</b>		09 30 010 0305			
		09 30 010 0303 with thermo-plastic cover 09 30 010 0303			
		09 30 010 0318 with metal cover			
<b>Housings surface mounting</b>		1 side-entry 09 30 010 1251	16		
		2 side-entry 09 30 010 1291	16		
		1 side-entry 09 30 010 1256	16		
		2 side-entry 09 30 010 1296	16		
		1 side-entry 09 30 010 2296	16		
		2 side-entry 09 30 010 2296	16		
<b>Hoods cable to cable</b>		09 30 010 1751	16		

Panel cut out 60 x 35

" Blind way for one cable entry





**Specifications**

DIN VDE 0627  
DIN VDE 0110

**Approvals**

UL / CSA

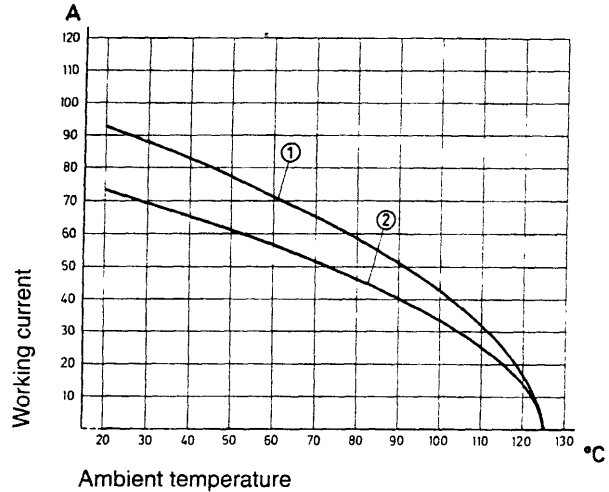
**Current carrying capacity**

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.

**Inserts**

Number of contacts	4 / 2 + PE
Working current	80 A / 16 A
Working voltage	690 V / 400 V
Pollution degree	3 (C)
Test voltage $U_{eff}$	4 kV / 3 kV
Material	Polycarbonate
Insulation resistance	$\geq 10^{10} \Omega$
Temperature range	- 40 °C +125 °C
Flammability acc. to UL 94	V0
Mechanical working life	$\geq 500$
Working voltage acc. to UL/CSA	600 V / 300 V



① Wire gauge: 16 mm<sup>2</sup>  
② Wire gauge: 10 mm<sup>2</sup>

**Contacts**

Material	copper alloy
Contact surface	hard-silver plated
Contact resistance	$3 \mu m \text{ Ag}$ $\leq 0.3 \text{ m}\Omega / 1 \text{ m}\Omega$
Screw terminal	
- mm <sup>2</sup>	1.5 - 16 / 0.5 - 2.5 mm <sup>2</sup>
- AWG	16 - 5 / 20 - 14
- Tightening / test torque	0.8 Nm / 0.5 Nm

**Hoods/Housings**

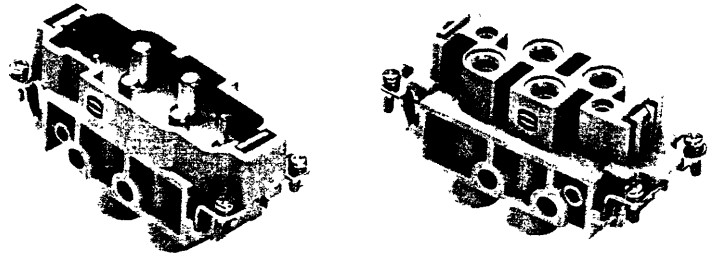
Material	GD-Al Si 8
Surface	powder-coated
Locking element	steel, galvanized
Hoods/Housings sealing	NBR
Temperature range	- 40 °C +125 °C
Degree of protection acc. to DIN 40 050 for coupled connector	IP 65
Vibration resistance	
Resistance to shock	
Material of covers	
- Plastic	Polyamid 6
- Die cast metal	GD-Al Si 8

# Han K 4/0, Han K 4/2



Number of contacts

4/0, 4/2 +

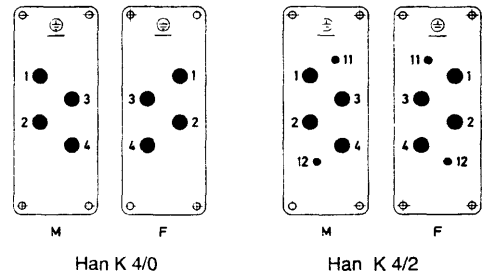


## Inserts

Identification	Series	Part No.		Drawing	Dimensions in mm
		Male insert (M)	Female insert (F)		
Screw terminal	Han K				
	4/0	09 38 006 2611	09 38 006 2711		
	4/2	09 38 006 2601	09 38 006 2701		

<sup>1)</sup> Distance for contact max. 21 mm

### Contact arrangement View from termination side





Specifications

DIN VDE 0627  
DIN VDE 0110

Approvals

UL / CSA

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.

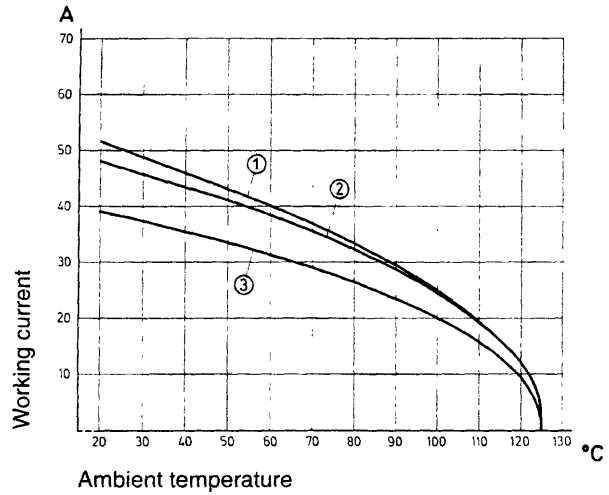
Control and test procedures according to DIN IEC 512-3.

Inserts

Number of contacts 6 / 12 + PE  
Working current 40 A / 10 A  
Working voltage 690 V / 400 V  
Pollution degree 3 (C)  
Test voltage  $U_{eff}$  3 kV / 2 kV  
Material Polycarbonate  
Insulation resistance  $\geq 10^{10} \Omega$   
Temperature range - 40 °C +125 °C  
Flammability acc. to UL 94 V0  
Mechanical working life  $\geq 500$   
Working voltage acc. to UL/CSA 600 V / 300 V

Contacts

Material copper alloy  
Contact surface hard-silver plated 3  $\mu$ m Ag  
Contact resistance  $\leq 0.5 \text{ m}\Omega / 3 \text{ m}\Omega$   
Screw terminal  
- mm<sup>2</sup> 2.5 - 10 / 0.2 - 2.5 mm<sup>2</sup>  
- AWG 13 - 7 / 24 - 13  
- Tightening / test torque 1 Nm / 0.8 Nm



- ① Wire gauge: 10 mm<sup>2</sup>
- ② Wire gauge: 6 mm<sup>2</sup>
- ③ Wire gauge: 4 mm<sup>2</sup>

Hoods/Housings

Material GD-Al Si 8  
Surface powder-coated  
Locking element steel, galvanized  
Hoods/Housings sealing NBR  
Temperature range - 40 °C +125 °C  
Degree of protection acc. to DIN 40 050 IP 65  
for coupled connector  
Material of covers  
- Plastic Polyamid 6  
- Die cast metal GD-Al Si 8

# Han K 6/12



Number of contacts

**6/12** +

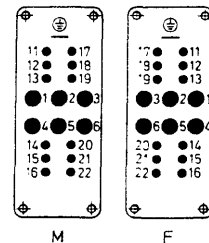


## Inserts

Identification	Series	Part No.		Drawing	Dimensions in mm
		Male Insert (M)	Female insert (F)		
Screw terminal	Han K				
	6/12	09 38 018 2601	09 38 018 2701		

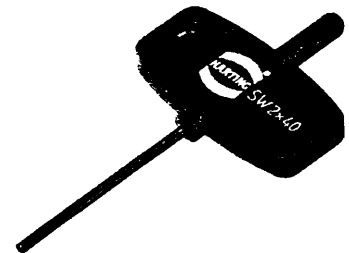
<sup>1)</sup> Distance for contact max. 21 mm

### Contact arrangement View from termination side



Screwdriver  
for axial setscrew.

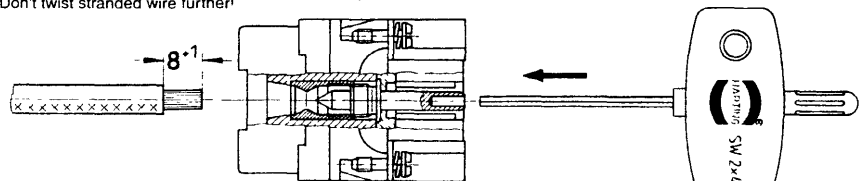
09 99 000 0313



### Working instructions for axial setscrew

For stranded wire 2.5 - 10 mm<sup>2</sup> fine wire  
(superfine wire 2.5 - 6 mm<sup>2</sup>)  
Don't twist stranded wire further!

Example Male insert



Insert stranded wire in contact chamber  
During tightening the lock nut, hold stranded wire in position

Tightening torque 1 Nm max

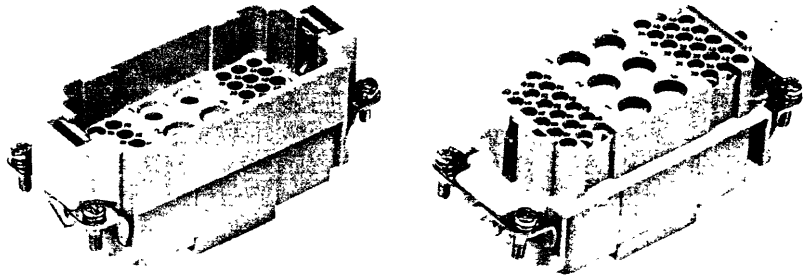


# Han K 6/36



Number of contacts

**6/36** +

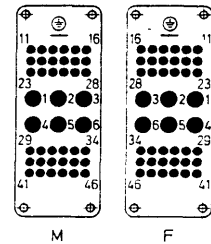


## Inserts

Identification	Series	Part No.		Drawing	Dimensions in mm
		Male insert (M)	Female insert (F)		
Crimp terminal Order contacts separately	Han K				
	6/36	09 38 042 3001	09 38 042 3101		

" Distance for contact max. 21 mm

### Contact arrangement View from termination side



Identification	Wire gauge (mm <sup>2</sup> )	Part No.		Drawing	Dimensions in mm							
		Male contacts	Female contacts									
Crimp contacts Power contacts	1.5	09 32 000 6104	09 32 000 6204									
	2.5	09 32 000 6105	09 32 000 6205									
	4.0	09 32 000 6107	09 32 000 6207									
	silver plated	4.0	09 32 000 6107			09 32 000 6207						
	6.0	09 32 000 6108	09 32 000 6208									
Signal contacts	0.14-0.37	09 15 000 6104	09 15 000 6204									
	0.5	09 15 000 6103	09 15 000 6203									
	0.75	09 15 000 6105	09 15 000 6205									
	silver plated	1.0	09 15 000 6102			09 15 000 6202						
	1.5	09 15 000 6101	09 15 000 6201									
	2.5	09 15 000 6106	09 15 000 6206									
	0.14-0.37	09 15 000 6124	09 15 000 6224			Wire gauge	o	Stripping length				
	0.5	09 15 000 6123	09 15 000 6223						0.14-0.37 mm <sup>2</sup>	AWG 26-22	0.90 mm	8 mm
	0.75	09 15 000 6125	09 15 000 6225						2.5 mm <sup>2</sup>	AWG 14	1.10 mm	8 mm
	gold plated	1.0	09 15 000 6122						09 15 000 6222	4.0 mm <sup>2</sup>	AWG 12	1.30 mm
1.5	09 15 000 6121	09 15 000 6221	6.0 mm <sup>2</sup>	AWG 10	1.45 mm				8 mm			
2.5	09 15 000 6126	09 15 000 6226			1.75 mm	8 mm						
2.5	09 15 000 6126	09 15 000 6226			2.25 mm	6 mm						
FOC contacts for 1 mm plastic fibre		20 10 001 3211	20 10 001 3221									

Cable and tools see catalogue "Fibre Optic Data Link Systems"

Hoods/Housings, see page 05.22



**Specifications**                      DIN VDE 0627  
   DIN VDE 0110

**Approvals**                            UL / CSA

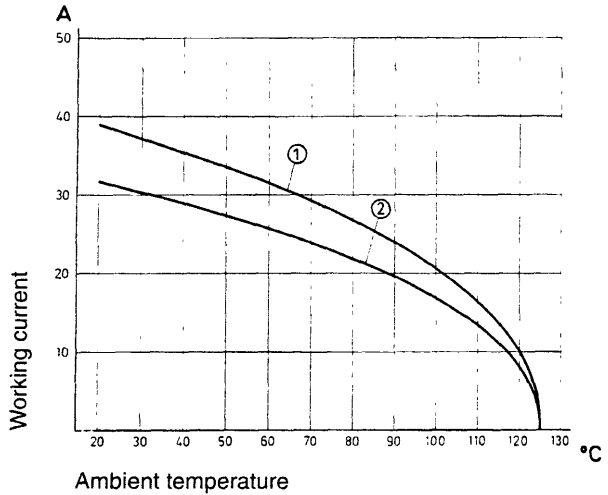
**Inserts**

Number of contacts	12 / 2 + PE
Working current	40 A / 10 A
Working voltage	690 V / 250 V
Pollution degree	3 (C)
Test voltage $U_{eff}$	3 kV / 2 kV
Material	Polycarbonate
Insulation resistance	$\geq 10^{10} \Omega$
Temperature range	- 40 °C +125 °C
Flammability acc. to UL 94	V0
Mechanical working life	$\geq 500$
Working voltage acc. to UL/CSA	600 V / 300 V

**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: 6 mm<sup>2</sup>  
 ② Wire gauge: 4 mm<sup>2</sup>

**Contacts**

Material	copper alloy
Contact surface hard-silver plated	3 $\mu$ m Ag
hard-gold plated	2 $\mu$ m Au over 3 $\mu$ m Ni
Contact resistance	$\leq 0.3 \text{ m}\Omega / 3 \text{ m}\Omega$
Crimp terminal	
- mm <sup>2</sup>	1.5 - 6 / 0.14 - 2.5 mm <sup>2</sup>
- AWG	16 - 9 / 25 - 13

**Hoods/Housings**

Material	GD-Al Si 8
Surface	powder-coated
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 65
Material of covers	
- Plastic	Polyamid 6
- Die cast metal	GD-Al Si 8

**Removal of Power Contacts (Han C contacts)**

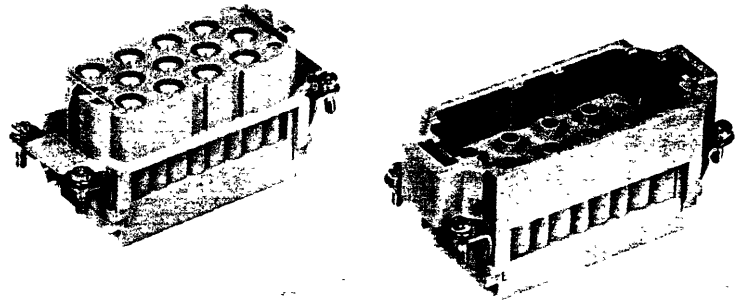
Description see removal tool page 05.46

# Han K 12/2 (12 HsC)



Number of contacts

12/2 +

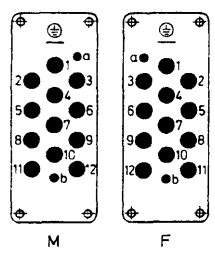


## Inserts

Identification	Series	Part No.		Drawing	Dimensions in mm
		Male insert (M)	Female insert (F)		
Crimp terminal Order contacts separately	Han K				
	12/2	09 32 012 3001	09 32 012 3101		

<sup>1)</sup> Distance for contact max. 21 mm

### Contact arrangement View from termination side



Identification	Wire gauge (mm <sup>2</sup> )	Part No.		Drawing	Dimensions in mm																											
		Male contacts	Female contacts																													
Crimp contacts Power contacts	1.5	09 32 000 6104	09 32 000 6204																													
	2.5	09 32 000 6105	09 32 000 6205																													
	4.0	09 32 000 6107	09 32 000 6207																													
	silver plated	6.0	09 32 000 6108			09 32 000 6208																										
				<table border="1"> <thead> <tr> <th>Wire gauge</th> <th>ø</th> <th colspan="2">Stripping length</th> </tr> </thead> <tbody> <tr> <td>1.5 mm<sup>2</sup> AWG 16</td> <td>1.75 mm</td> <td>9 mm</td> <td>9 mm</td> </tr> <tr> <td>2.5 mm<sup>2</sup> AWG 14</td> <td>2.25 mm</td> <td>9 mm</td> <td>9 mm</td> </tr> <tr> <td>4.0 mm<sup>2</sup> AWG 12</td> <td>2.85 mm</td> <td>9.5 mm</td> <td>9.5 mm</td> </tr> <tr> <td>6.0 mm<sup>2</sup> AWG 10</td> <td>3.5 mm</td> <td>9.5 mm</td> <td>9.5 mm</td> </tr> </tbody> </table>	Wire gauge	ø	Stripping length		1.5 mm <sup>2</sup> AWG 16	1.75 mm	9 mm	9 mm	2.5 mm <sup>2</sup> AWG 14	2.25 mm	9 mm	9 mm	4.0 mm <sup>2</sup> AWG 12	2.85 mm	9.5 mm	9.5 mm	6.0 mm <sup>2</sup> AWG 10	3.5 mm	9.5 mm	9.5 mm								
Wire gauge	ø	Stripping length																														
1.5 mm <sup>2</sup> AWG 16	1.75 mm	9 mm	9 mm																													
2.5 mm <sup>2</sup> AWG 14	2.25 mm	9 mm	9 mm																													
4.0 mm <sup>2</sup> AWG 12	2.85 mm	9.5 mm	9.5 mm																													
6.0 mm <sup>2</sup> AWG 10	3.5 mm	9.5 mm	9.5 mm																													
Signal contacts	0.14-0.37	09 15 000 6104	09 15 000 6204																													
	0.5	09 15 000 6103	09 15 000 6203																													
	0.75	09 15 000 6105	09 15 000 6205																													
	silver plated	1.0	09 15 000 6102			09 15 000 6202																										
		1.5	09 15 000 6101			09 15 000 6201																										
		2.5	09 15 000 6106			09 15 000 6206																										
				<table border="1"> <thead> <tr> <th>Wire gauge</th> <th>ø</th> <th colspan="2">Stripping length</th> </tr> </thead> <tbody> <tr> <td>0.14-0.37 mm<sup>2</sup> AWG 26-22</td> <td>0.90 mm</td> <td>8 mm</td> <td>8 mm</td> </tr> <tr> <td>0.5 mm<sup>2</sup> AWG 20</td> <td>1.10 mm</td> <td>8 mm</td> <td>8 mm</td> </tr> <tr> <td>0.75 mm<sup>2</sup> AWG 18</td> <td>1.30 mm</td> <td>8 mm</td> <td>8 mm</td> </tr> <tr> <td>1.0 mm<sup>2</sup> AWG 18</td> <td>1.45 mm</td> <td>8 mm</td> <td>8 mm</td> </tr> <tr> <td>1.5 mm<sup>2</sup> AWG 16</td> <td>1.75 mm</td> <td>8 mm</td> <td>8 mm</td> </tr> <tr> <td>2.5 mm<sup>2</sup> AWG 14</td> <td>2.25 mm</td> <td>6 mm</td> <td>6 mm</td> </tr> </tbody> </table>	Wire gauge	ø	Stripping length		0.14-0.37 mm <sup>2</sup> AWG 26-22	0.90 mm	8 mm	8 mm	0.5 mm <sup>2</sup> AWG 20	1.10 mm	8 mm	8 mm	0.75 mm <sup>2</sup> AWG 18	1.30 mm	8 mm	8 mm	1.0 mm <sup>2</sup> AWG 18	1.45 mm	8 mm	8 mm	1.5 mm <sup>2</sup> AWG 16	1.75 mm	8 mm	8 mm	2.5 mm <sup>2</sup> AWG 14	2.25 mm	6 mm	6 mm
Wire gauge	ø	Stripping length																														
0.14-0.37 mm <sup>2</sup> AWG 26-22	0.90 mm	8 mm	8 mm																													
0.5 mm <sup>2</sup> AWG 20	1.10 mm	8 mm	8 mm																													
0.75 mm <sup>2</sup> AWG 18	1.30 mm	8 mm	8 mm																													
1.0 mm <sup>2</sup> AWG 18	1.45 mm	8 mm	8 mm																													
1.5 mm <sup>2</sup> AWG 16	1.75 mm	8 mm	8 mm																													
2.5 mm <sup>2</sup> AWG 14	2.25 mm	6 mm	6 mm																													
FOC contacts for 1 mm plastic fibre		20 10 001 3211	20 10 001 3221																													

Cable and tools see catalogue "Fibre Optic Data Link Systems"



# Standard Hoods/Housings with 2 levers on the housing



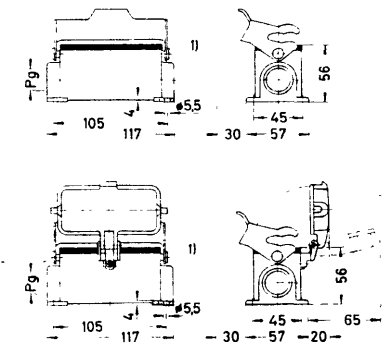
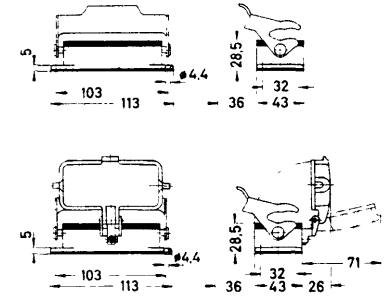
Identification	Part No.		Pg	Drawing	Dimensions in mm
	Low construction	High construction			
Hoods side-entry		09 30 016 1520	21		
		09 30 016 0520 09 30 016 0521	21 29		
Hoods top-entry		09 30 016 1420	21		
		09 30 016 0420 09 30 016 0421	21 29		
Protection covers metal		09 30 016 5401			
		09 30 016 5422			
Housings bulkhead mounting		09 30 016 0301	-		
Housings surface mounting	1 side-entry	09 30 016 1230	09 30 016 0230 09 30 016 0231	21 29	
	2 side-entry	09 30 016 1270	09 30 016 0270 09 30 016 0271	21 29	
Protection covers metal		09 30 016 5405			
		09 30 016 5425			
Housings cable to cable		09 30 016 1730	09 30 016 0730 09 30 016 0731	21 21 29	
Protection covers metal		09 30 016 5426			

# Standard Hoods/Housings with 1 lever on the housing



Identification	Part No.		Pg	Drawing	Dimensions in mm
	Low construction	High construction			
Hoods side-entry	09 30 016 1540		21		
		09 30 016 0540 09 30 016 0541	21 29		
Hoods top-entry	09 30 016 1440		21		
		09 30 016 0440 09 30 016 0441	21 29		
Housings bulkhead mounting	09 30 016 0307		-		
	with thermo- plastic cover 09 30 016 0306		-		
	with metal cover 09 30 016 0318		-		
Housings surface mounting	1 side-entry	09 30 016 1250	21		
	2 side-entry	09 30 016 1290	21		
	1 side-entry	with thermo- plastic cover 09 30 016 1255	21		
	2 side-entry	with thermo- plastic cover 09 30 016 1295	21		
		with metal cover 09 30 016 2295	21		
Hoods cable to cable	09 30 016 1750		21		

Panel cut out 82 x 35



<sup>1)</sup> Blind way for one cable entry



**Specifications**                      DIN VDE 0627  
     DIN VDE 0110

**Approvals**                            UL / CSA

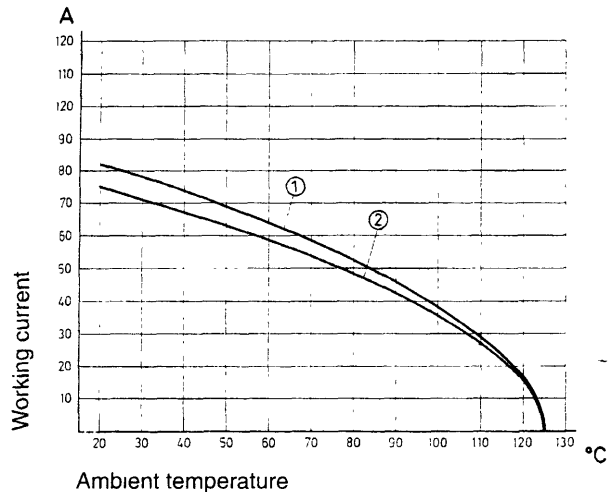
**Inserts**  
 Number of contacts                    4 / 8 + PE  
 Working current                        80 A / 16 A  
 Working voltage                        400 V / 400 V  
 Pollution degree                        3 (C)  
 Test voltage  $U_{eff}$                     3 kV  
 Material                                 Polyamid  
 Insulation resistance                  $\geq 10^{10} \Omega$   
 Temperature range                    - 40 °C +125 °C  
 Flammability acc. to UL 94         HB  
 Mechanical working life              $\geq 500$   
 Working voltage acc. to UL/CSA    600 V / 600 V

**Contacts**  
 Material                                 copper alloy  
 Contact surface hard-silver plated    3  $\mu$ m Ag  
 Contact resistance                     $\leq 0.3 \text{ m}\Omega / 1 \text{ m}\Omega$   
 Screw terminal  
   -  $\text{mm}^2$                                  1.5 - 16 / 0.5 - 2.5  $\text{mm}^2$   
   - AWG                                 16 - 5 / 20 - 14  
   - Tightening / test torque        0.8 Nm / 0.5 Nm

**Hoods/Housings**  
 Material                                 GD-Al Si 8  
 Surface                                 powder-coated  
 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 65  
 Material of covers  
   - Plastic                                Polyamid 6  
   - Die cast metal                     GD-Al Si 8

**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.



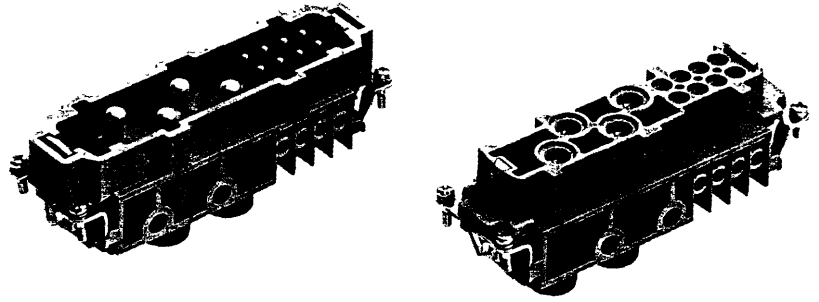
- ① Wire gauge: 16  $\text{mm}^2$
- ② Wire gauge: 10  $\text{mm}^2$

# Han K 4/8



Number of contacts

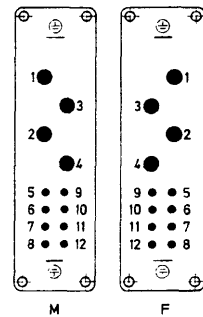
4/8 +



## Inserts

Identification	Series	Part No.		Drawing	Dimensions in mm
		Male insert (M)	Female insert (F)		
Screw terminal	Han K				
	4/8	09 38 012 2601	09 38 012 2701		

### Contact arrangement View from termination side



Specifications

DIN VDE 0627  
DIN VDE 0110

Approvals

UL / CSA

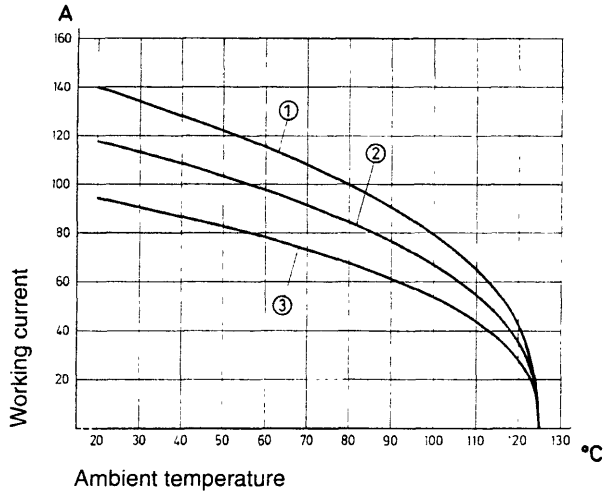
Current carrying capacity

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.

Inserts

Number of contacts	6 / 6 + PE
Working current	100 A / 16 A
Working voltage	690 V / 400 V
Pollution degree	3 (C)
Test voltage $U_{eff}$	3 kV
Material	Polycarbonate
Insulation resistance	$\geq 10^{10} \Omega$
Temperature range	- 40 °C +125 °C
Flammability acc. to UL 94	V0
Mechanical working life	$\geq 500$



Contacts

Material	copper alloy
Contact surface	hard-silver plated
Contact resistance	$3 \mu m Ag$ $\leq 0.5 m\Omega / 3 m\Omega$
Screw terminal	
- $mm^2$	16 - 35 / 0.2 - 2.5 $mm^2$
- AWG	5 - 2 / 24 - 13
- Tightening / test torque	5-6 Nm / 0.8 Nm

- ① Wire gauge: 35  $mm^2$
- ② Wire gauge: 25  $mm^2$
- ③ Wire gauge: 16  $mm^2$

Hoods/Housings

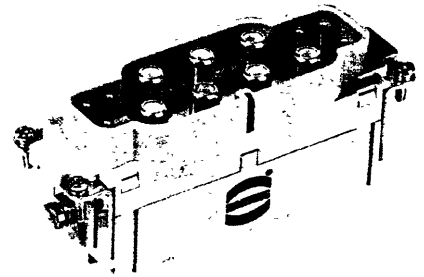
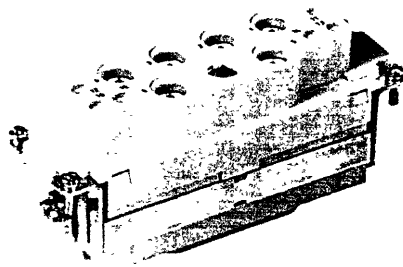
Material	GD-AI Si 8
Surface	powder-coated
Locking element	steel, galvanized
Hoods/Housings sealing	NBR
Temperature range	- 40 °C +125 °C
Degree of protection acc. to DIN 40 050 for coupled connector	IP 65
Material of covers	
- Plastic	Polyamid 6
- Die cast metal	GD-AI Si 8

# Han K 6/6



Number of contacts

6/6 +



## Inserts

Identification

Screw terminal

Series

Han K

6/6

Part No.

Male insert (M)

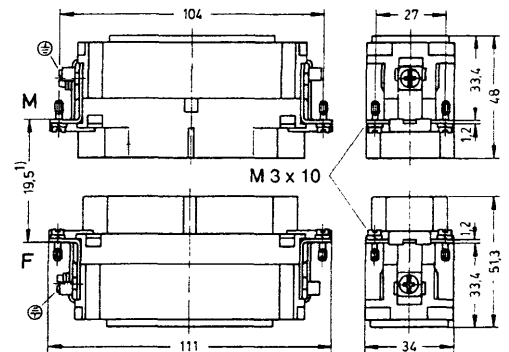
Female insert (F)

Drawing

Dimensions in mm

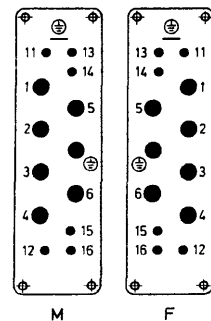
09 38 012 2651

09 38 012 2751



<sup>1)</sup> Distance for guaranteed contact max. 21 mm

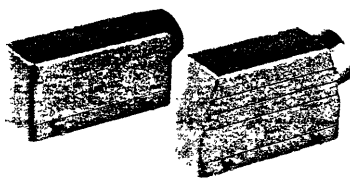
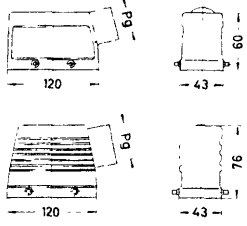

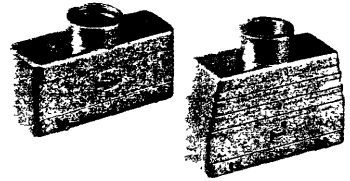
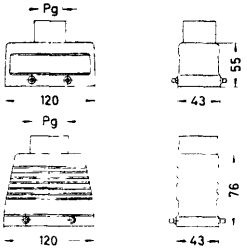
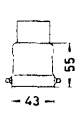

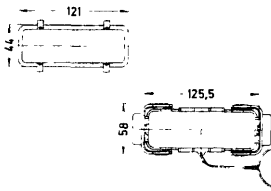
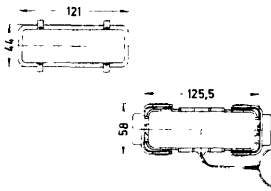

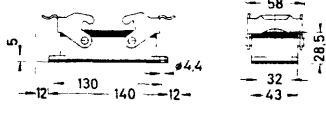
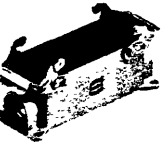
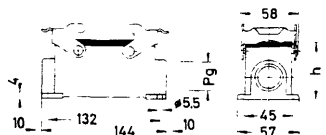

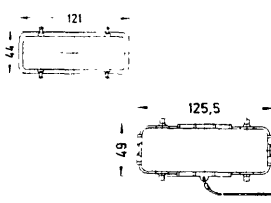
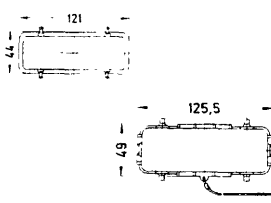
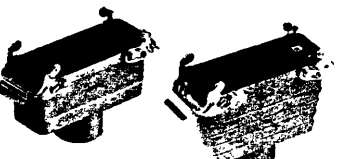
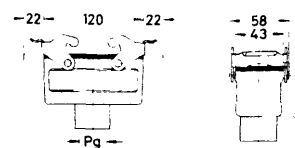
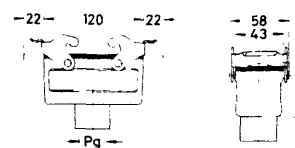

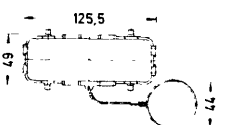
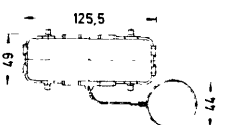
Contact arrangement View from termination side



Termination details  
see page 05.30

# Standard Hoods/Housings with 2 levers on the housing

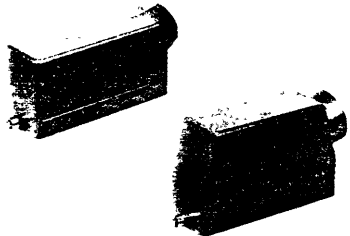
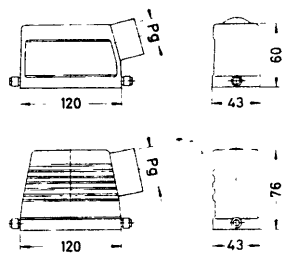
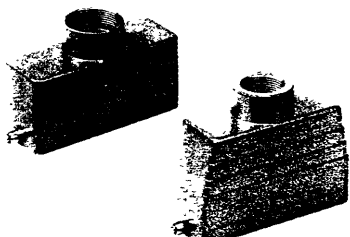
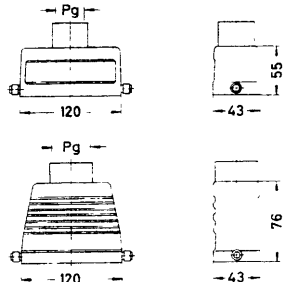
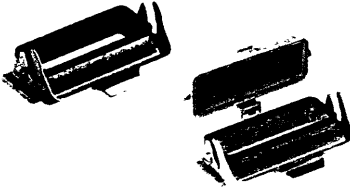
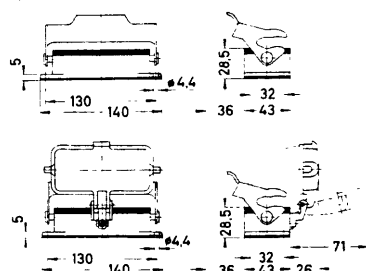
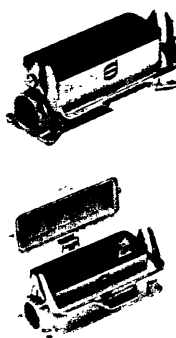
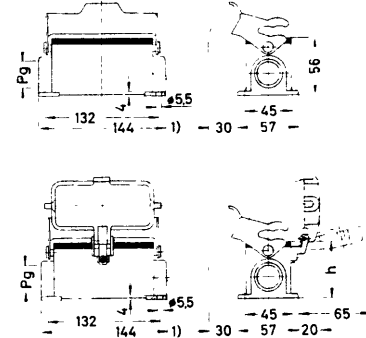


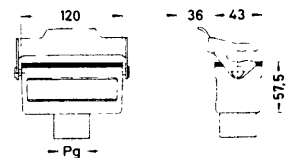


Identification	Part No.		Pg	Drawing	Dimensions in mm
	Low construction	High construction			
Hoods side-entry		09 30 024 1520	21		
		09 30 024 0520 09 30 024 0521	21 29		
Hoods top-entry		09 30 024 1421	29		
		09 30 024 0420 09 30 024 0421	21 29		
Protection covers metal		09 30 024 5401			
		09 30 024 5422			
Housings bulkhead mounting		09 30 024 0301		Panel cut out 108 x 35	
Housings surface mounting		1 side-entry 09 30 024 1230	09 30 024 0230 09 30 024 0231	21 29	
		2 side-entry 09 30 024 1270	09 30 024 0270 09 30 024 0271	21 29	
Protection covers metal		09 30 024 5405			
		09 30 024 5425			
Hoods cable to cable		09 30 024 1731			
Protection covers metal		09 30 024 5426			

05  
28

# Standard Hoods/Housings with 1 lever on the housing



Identification	Part No.		Pg	Drawing	Dimensions in mm			
	Low construction	High construction						
Hoods side-entry		09 30 024 1540	21					
		09 30 024 0540 09 30 024 0541	21 29					
Hoods top-entry		09 30 024 1441	29					
		09 30 024 0440 09 30 024 0441	21 29					
Housings bulkhead mounting		09 30 024 0307	-	<p>Panel cut out 108 x 35 mm</p> 				
		with thermo-plastic cover 09 30 024 0304	-					
Housings surface mounting		1 side-entry 09 30 024 1250	21					
		2 side-entry 09 30 024 1290	21					
Housings		1 side-entry 09 30 024 1255	21	<p>"Blind way for one cable entry"</p> <table border="1"> <tr><td>h</td></tr> <tr><td>Low construction 56</td></tr> <tr><td>High construction 80</td></tr> </table>	h	Low construction 56	High construction 80	
		h						
Low construction 56								
High construction 80								
2 side-entry 09 30 024 1295	21 29							
Hoods cable to cable		09 30 024 2295	21					
		09 30 024 1751	29					

Further variants of Hoods/Housings, size 24, see page 05.33



Description

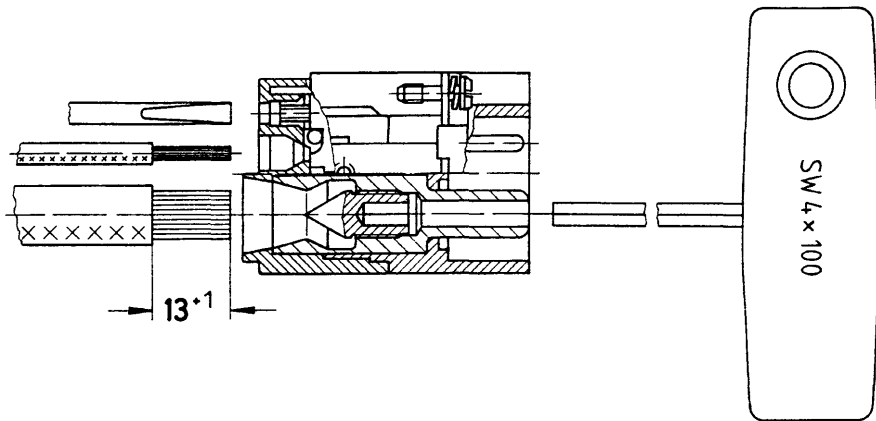
Drawing

Dimensions in mm

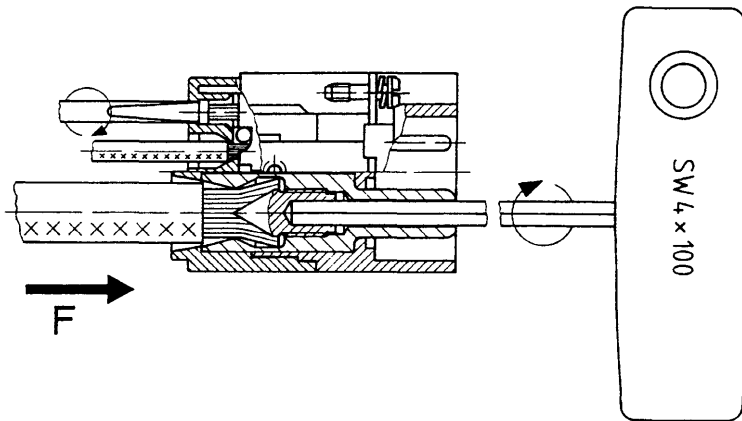
Note:

The signal contacts are suitable for stranded wire up to 2.5 mm<sup>2</sup> and the power contacts for stranded wire from 16 to 35 mm<sup>2</sup>.

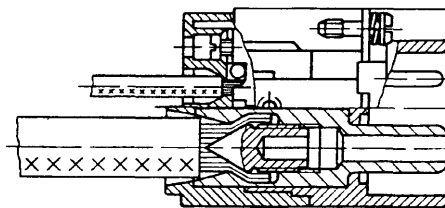
- Strip insulation from stranded wire  
10 mm for signal contacts  
13 mm for power contacts.  
Insert stranded wire into contact chamber until insulation is flush with contact.



- Signal contacts: Tighten screw termination with screw driver (3.5 mm blade).  
Power contacts: Hold the stranded wire in position and secure by 4 x 100 hexagonal driver from the mating side with a force of 5-6 Nm.



- Complete connection.



The male insert is shown. The same method is applicable for female inserts.

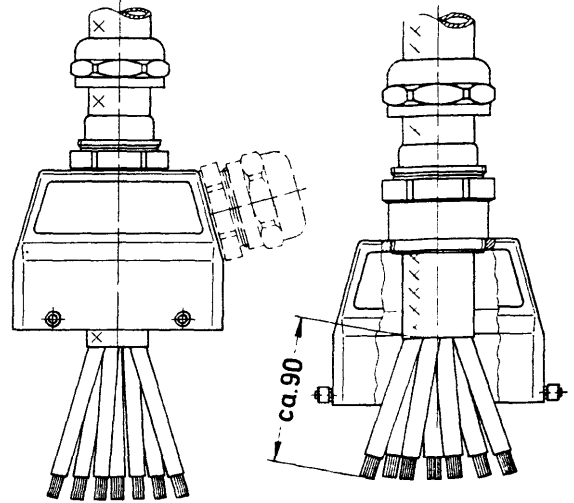
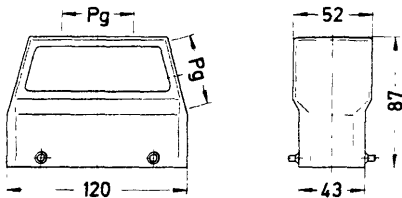
Drawing	Dimensions in mm	Part No.
<b>Hoods</b>		
2 locking levers		
side-entry		09 30 024 0525
top-entry		09 30 024 0425

Pg

Assembly details

**Wire gauge 25 mm<sup>2</sup>**

1. Screw universal cable protection into the hood.
2. Insert cable through the open cable entry protection into the hood.
3. Remove cable sheathing (approx. 90 mm) and strip wire.
4. Connect wires to insert according to the assembly details.
5. Retract cable.
6. Fix insert and tighten cable protection.



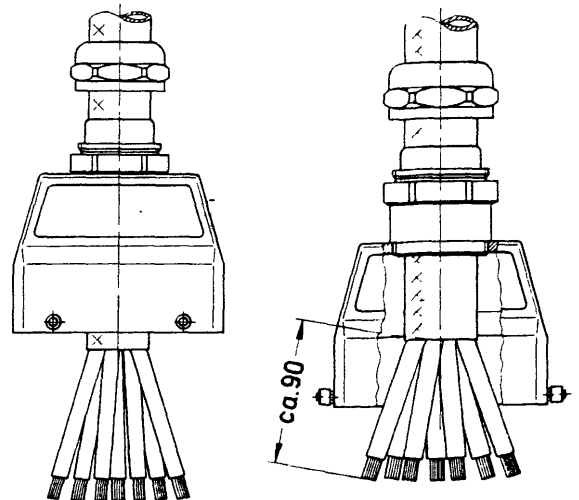
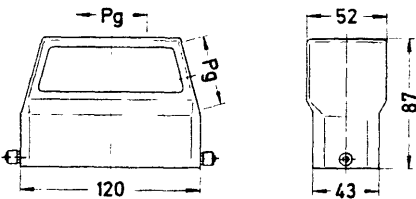
<b>Hoods</b>		
1 locking lever		
side-entry		09 30 024 0546
top-entry		09 30 024 0446

36

36

**Wire gauge 35 mm<sup>2</sup>**

1. Screw the increaser Pg 36 / Pg 42 into the hood with **top-entry**.
2. Screw the universal cable protection Pg 42 into the increaser.
3. Further details see above.



# Technical characteristics – Hoods/Housings



## Hoods/Housings

Material	GD-Al Si 8 / DIN 1725
Surface	powder-coated
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 65
Material of covers	
- Plastic	Polyamid 6
- Die cast metal	GD-Al Si 8
- Pressed metal	steel

## Han M Hoods/Housings

Material	GD-Al Si 12
Surface	effect-lac RAL 6011
Locking element	V 2 A
Hoods/Housings sealing	FPM / Viton
Temperature range	- 40 °C +125 °C
Degree of protection acc. to DIN 40 050 for coupled connector	IP 65
Material of covers	GD-Al Si 12

## Han HP Hoods/Housings (Pressure tight)


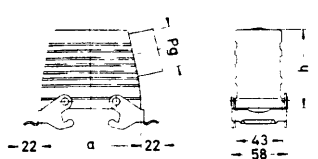
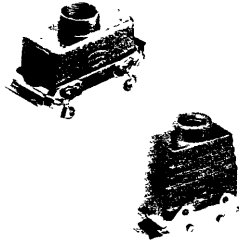
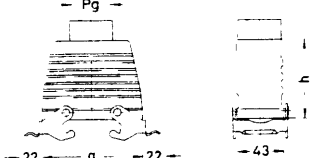

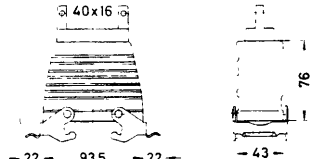

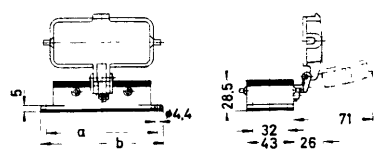
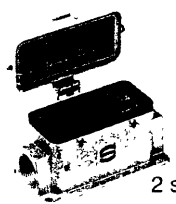
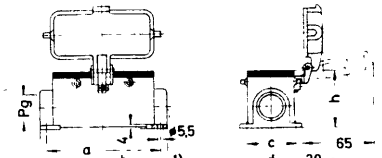
Material	GD-Al Si 12
Surface	effect-lac
Locking element	V 2 A
Hoods/Housings sealing	NBR
Temperature range	- 40 °C +125 °C
Degree of protection acc. to DIN 40 050 for coupled connector	IP 68

## Han EMC Hoods/Housings

Material	GD-Al Si 12
Surface	conductive
Locking element	V 2 A
Hoods/Housings sealing	NBR
Temperature range	- 40 °C +125 °C
Degree of protection acc. to DIN 40 050 for coupled connector	IP 68

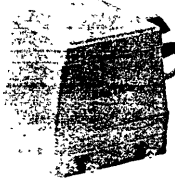
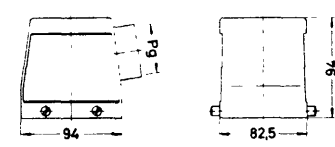

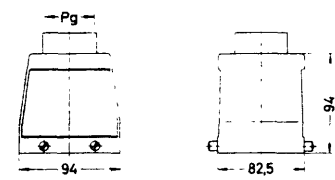
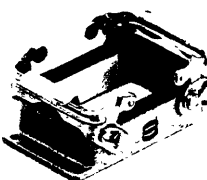
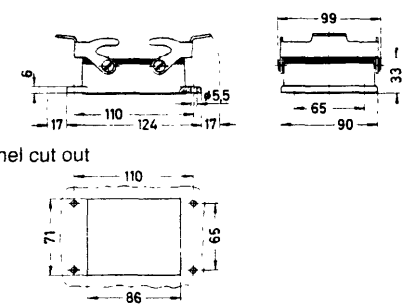
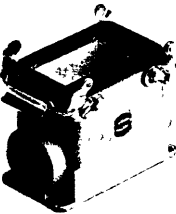
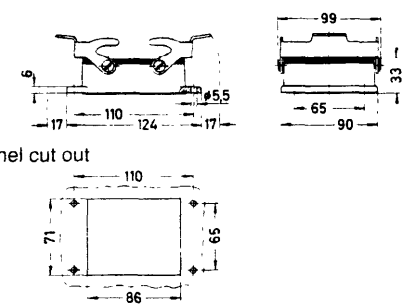
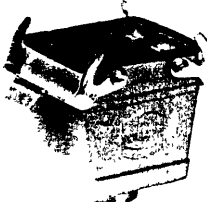
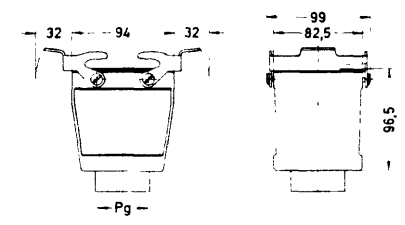
# Standard Hoods/Housings with 2 levers on the hood



Identification	Size	Part No.		Pg	Drawing	Dimensions in mm																																																																																					
		Low construction	High construction																																																																																								
Hoods side-entry 	10	09 30 010 1531	09 30 010 0532	16		<table border="1"> <thead> <tr> <th>Size</th> <th>a</th> <th>Low construction h</th> <th>High construction h</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>73</td> <td>52</td> <td>70</td> </tr> <tr> <td>16</td> <td>93.5</td> <td>60</td> <td>76</td> </tr> <tr> <td>24</td> <td>120</td> <td>60</td> <td>76</td> </tr> </tbody> </table>	Size	a	Low construction h	High construction h	10	73	52	70	16	93.5	60	76	24	120	60	76																																																																					
	Size	a	Low construction h	High construction h																																																																																							
	10	73	52	70																																																																																							
	16	93.5	60	76																																																																																							
	24	120	60	76																																																																																							
	10						21																																																																																				
16				21																																																																																							
16				29																																																																																							
24				21																																																																																							
24				29																																																																																							
Hoods top-entry 	10	09 30 010 1431	09 30 010 0433	16		<table border="1"> <thead> <tr> <th>Size</th> <th>a</th> <th>Low construction h</th> <th>High construction h</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>73</td> <td>52</td> <td>70</td> </tr> <tr> <td>16</td> <td>93.5</td> <td>60</td> <td>76</td> </tr> <tr> <td>24</td> <td>120</td> <td>60</td> <td>76</td> </tr> </tbody> </table>	Size	a	Low construction h	High construction h	10	73	52	70	16	93.5	60	76	24	120	60	76																																																																					
	Size	a	Low construction h	High construction h																																																																																							
	10	73	52	70																																																																																							
	16	93.5	60	76																																																																																							
	24	120	60	76																																																																																							
	10						29																																																																																				
16				21																																																																																							
16				29																																																																																							
24				21																																																																																							
24				29																																																																																							
Hoods flat cable-entry 	16		09 30 016 4431																																																																																								
Housings bulkhead mounting 	10	with thermo-plastic cover				<table border="1"> <thead> <tr> <th>Size</th> <th>a</th> <th>b</th> <th>c</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>83</td> <td>93</td> <td>60</td> </tr> <tr> <td>16</td> <td>103</td> <td>113</td> <td>82</td> </tr> <tr> <td>24</td> <td>130</td> <td>140</td> <td>108</td> </tr> </tbody> </table>	Size	a	b	c	10	83	93	60	16	103	113	82	24	130	140	108																																																																					
	Size	a	b				c																																																																																				
	10	83	93				60																																																																																				
	16	103	113				82																																																																																				
	24	130	140				108																																																																																				
	16	09 30 010 0302																																																																																									
16	09 30 016 0302																																																																																										
24	09 30 024 0302																																																																																										
16	with metal cover																																																																																										
24	09 30 016 0317																																																																																										
24	09 30 024 0317																																																																																										
Housings surface mounting 	1 side-entry		with thermo-plastic cover				<table border="1"> <thead> <tr> <th>Size</th> <th>a</th> <th>b</th> <th>c</th> <th>d</th> <th>Low construction h</th> <th>High construction h</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>82</td> <td>94</td> <td>40</td> <td>52</td> <td>54</td> <td>-</td> </tr> <tr> <td>16</td> <td>105</td> <td>117</td> <td>45</td> <td>57</td> <td>56</td> <td>77</td> </tr> <tr> <td>16</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>24</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>24</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2">2 side-entry</td> <td colspan="2">with thermo-plastic cover</td> <td></td> <td></td> <td></td> </tr> <tr> <td>10</td> <td>09 30 010 1261</td> <td></td> <td></td> <td>16</td> <td></td> <td></td> </tr> <tr> <td>16</td> <td>09 30 016 1260</td> <td></td> <td>09 30 016 0260</td> <td>21</td> <td></td> <td></td> </tr> <tr> <td>16</td> <td></td> <td></td> <td>09 30 016 0261</td> <td>21</td> <td></td> <td></td> </tr> <tr> <td>24</td> <td></td> <td></td> <td>09 30 024 0260</td> <td>21</td> <td></td> <td></td> </tr> <tr> <td>24</td> <td></td> <td></td> <td>09 30 024 0261</td> <td>29</td> <td></td> <td></td> </tr> </tbody> </table>	Size	a	b	c	d	Low construction h	High construction h	10	82	94	40	52	54	-	16	105	117	45	57	56	77	16							24							24							2 side-entry		with thermo-plastic cover					10	09 30 010 1261			16			16	09 30 016 1260		09 30 016 0260	21			16			09 30 016 0261	21			24			09 30 024 0260	21			24			09 30 024 0261	29		
	Size	a	b	c				d	Low construction h	High construction h																																																																																	
	10	82	94	40				52	54	-																																																																																	
	16	105	117	45				57	56	77																																																																																	
	16																																																																																										
	24																																																																																										
	24																																																																																										
	2 side-entry		with thermo-plastic cover																																																																																								
	10	09 30 010 1261						16																																																																																			
	16	09 30 016 1260		09 30 016 0260				21																																																																																			
	16			09 30 016 0261				21																																																																																			
	24			09 30 024 0260				21																																																																																			
24			09 30 024 0261	29																																																																																							

# Standard Housings with 2 levers on the housing



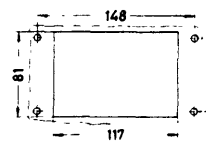
Identification	Size	Part No.	Pg	Drawing	Dimensions in mm	
<b>Hoods side-entry</b>						
	32	09 30 032 0521	29			
	32	09 30 032 0522	36			
	32	09 30 032 0523	42			
<b>Hoods top-entry</b>						
	32	09 30 032 0421	29			
	32	09 30 032 0422	36			
<b>Housings bulkhead mounting</b>						
	32	09 30 032 0301	-			
<b>Housings surface mounting</b>						
	1 side-entry	32	09 30 032 0231	29		
		32	09 30 032 0232	36		
	2 side-entry	32	09 30 032 0271	29		
		32	09 30 032 0272	36		
<b>Hoods cable to cable</b>						
	32	09 30 032 0732	36			

# Standard Hoods/Housings with 1 lever on the housing



Identification	Size	Part No.	Pg	Drawing	Dimensions in mm
Hoods side-entry	48	09 30 048 0540	29		
	48	09 30 048 0541	36		
	48	09 30 048 0542	42		
Hoods top-entry	48	09 30 048 0440	29		
	48	09 30 048 0441	36		
	48	09 30 048 0442	42		
Housings bulkhead mounting	48	with thermo- plastic cover 09 30 048 0301	-		
	48	with metal cover 09 30 048 0317	-		
Housings surface mounting 2 side-entry	48	09 30 048 0290	29		
	48	09 30 048 0291	36		
	48	with thermo- plastic cover 09 30 048 0295	29		
	48	09 30 048 0296	36		

Panel cut out



<sup>1)</sup> Blind way

# Hoods/Housings with central lever



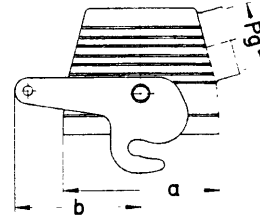
## Identification

### Hoods side-entry

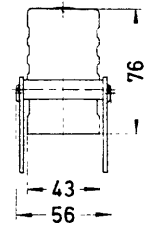


Size	Part No.	Pg
16	09 30 016 0580	21
16	09 30 016 0581	29
24	09 30 024 0580	21
24	09 30 024 0581	29

## Drawing



## Dimensions in mm



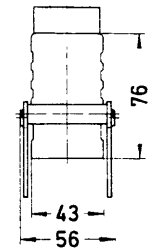
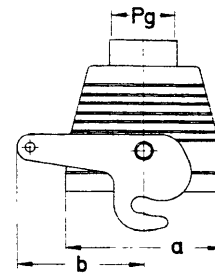
Size	a	b
16	93.5	76
24	120	87

## Hoods

### Hoods top-entry



Size	Part No.	Pg
16	09 30 016 0480	21
16	09 30 016 0481	29
24	09 30 024 0480	21
24	09 30 024 0481	29

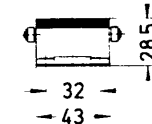
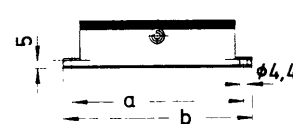


Size	a	b
16	93.5	76
24	120	87

### Housings bulkhead mounting



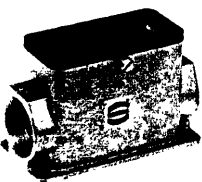
Size	Part No.
16	09 30 016 0381
24	09 30 024 0381



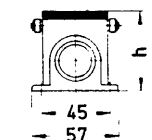
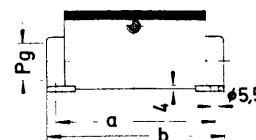
Size	a	b	panel cut out
16	103	113	82 x 35
24	130	140	108 x 35

## Housings

### Housings surface mounting



Size	Part No.	Pg
16	09 30 016 0281	2 x 29
24	09 30 024 0281	2 x 29



Size	a	b
16	105	117
24	132	144

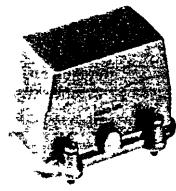
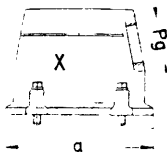
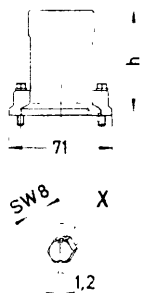
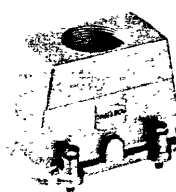
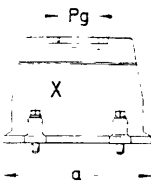
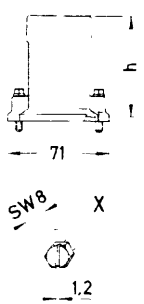
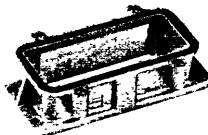
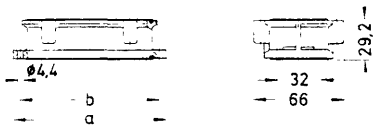
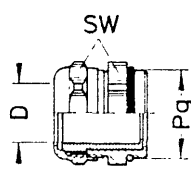
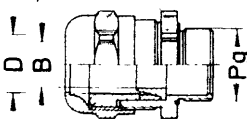




# Hoods/Housings

Pressure tight Han HP  
EMC tight Han EMC



Identification	Size	Part No.		Pg	Drawing	Dimensions in mm														
		Han HP	Han EMC																	
<b>Hoods side-entry</b> 	10	09 39 010 0505	09 62 010 0540	16	  <table border="1"> <tr><th>a</th><th>h</th></tr> <tr><td>10</td><td>85 75</td></tr> <tr><td>16</td><td>106 75</td></tr> <tr><td>24</td><td>132 85</td></tr> </table>	a	h	10	85 75	16	106 75	24	132 85	09 39 010 0506	09 62 010 0541	21				
	a	h																		
	10	85 75																		
	16	106 75																		
	24	132 85																		
	16	09 39 016 0506	09 62 040 0540	21																
16	09 39 016 0507	09 62 040 0541	29																	
24	09 39 024 0506	09 62 064 0540	21																	
24	09 39 024 0507	09 62 064 0541	29																	
<b>Hoods top-entry</b> 	10	09 39 010 0405	09 62 010 0440	16	  <table border="1"> <tr><th>a</th><th>h</th></tr> <tr><td>10</td><td>85 75</td></tr> <tr><td>16</td><td>106 75</td></tr> <tr><td>24</td><td>132 85</td></tr> </table>	a	h	10	85 75	16	106 75	24	132 85	09 39 010 0406	09 62 010 0441	21				
	a	h																		
	10	85 75																		
	16	106 75																		
	24	132 85																		
	16	09 39 016 0406	09 62 040 0440	21																
16	09 39 016 0407	09 62 040 0441	29																	
24	09 39 024 0407	09 62 064 0440	29																	
24	09 39 024 0408	09 62 064 0441	36																	
<b>Housings bulkhead mounting</b> 	10	09 39 010 0310	09 62 010 0301	-	 <table border="1"> <tr><th>a</th><th>b</th><th>Panel cut out</th></tr> <tr><td>10</td><td>93 83</td><td>60 x 35</td></tr> <tr><td>16</td><td>113 103</td><td>82 x 35</td></tr> <tr><td>24</td><td>140 130</td><td>108 x 35</td></tr> </table>	a	b	Panel cut out	10	93 83	60 x 35	16	113 103	82 x 35	24	140 130	108 x 35	09 39 016 0310	09 62 040 0301	-
	a	b	Panel cut out																	
	10	93 83	60 x 35																	
	16	113 103	82 x 35																	
24	140 130	108 x 35																		
16	09 39 024 0310	09 62 064 0301	-																	
24																				
<b>Universal cable protection metal</b> 		09 00 000 5086		16	24	-	6.5	9.5												
		09 00 000 5087		16	24	-	7	10.5												
			09 62 000 5005	16	30	7	8	10.5												
		09 00 000 5088		16	24	-	9	13												
			09 62 000 5006	16	30	10.5	11	14												
		09 00 000 5089		16	24	-	11.5	15.5												
		09 00 000 5090		21	30	-	7	10.5												
		09 00 000 5091		21	30	-	9	13												
		09 00 000 5092		21	30	-	11.5	15.5												
		09 00 000 5093		21	30	-	14	18												
			09 62 000 5007	21	35	15.7	14	18												
			09 62 000 5008	21	35	17.7	17	20												
		09 00 000 5094		29	40	-	14	18												
		09 00 000 5095		29	40	-	17	21												
		09 62 000 5009	29	40	21.7	19	23													
	09 00 000 5096		29	40	-	20	25													
		09 62 000 5010	29	40	23.7	22	26													
	09 00 000 5097		29	40	-	24	28													
		09 62 000 5011	36	50	26.7	25	30													
	09 00 000 5098		36	50	-	29	34													
		09 62 000 5012	36	50	29.7	30	32													
	09 00 000 5099		36	50	-	32	36													
<b>EMC cable protection</b> 		09 00 000 5094		29	40	-	14	18												
		09 00 000 5095		29	40	-	17	21												
			09 62 000 5009	29	40	21.7	19	23												
		09 00 000 5096		29	40	-	20	25												
			09 62 000 5010	29	40	23.7	22	26												
		09 00 000 5097		29	40	-	24	28												
			09 62 000 5011	36	50	26.7	25	30												
		09 00 000 5098		36	50	-	29	34												
			09 62 000 5012	36	50	29.7	30	32												
		09 00 000 5099		36	50	-	32	36												

# Hoods for special applications



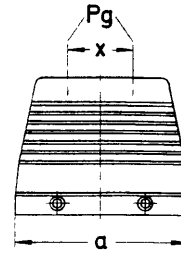
## Identification

### Hoods top-entry

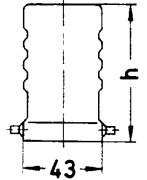


Size	Part No.	Pg
10	09 30 010 0460	2x13.5
16	09 30 016 0459	2 x 16
16	09 30 016 0462	2 x 21
24	09 30 024 0462	2 x 21
24	09 30 024 0461	2 x 29

## Drawing



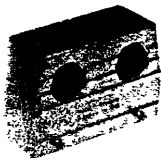
## Dimensions in mm



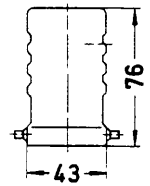
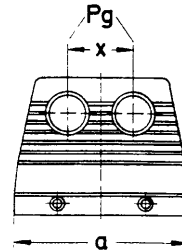
Size	a	h	x	Pg
10	73	72	20	2x13.5
16	93.5	76	36	2x16
16	93.5	76	36	2x21
24	120	76	52	2x21
24	120	76	48	2x29

### Hoods side-entry

## Hoods



16	09 30 016 0663	2 x 21
24	09 30 024 0663	2 x 21

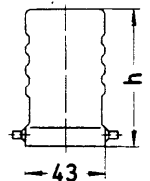
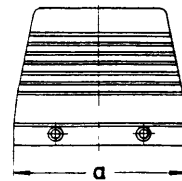


Size	a	x	Pg
16	93.5	36	2 x 21
24	120	56	2 x 21

### Hoods without entry for customized drillings



10	09 30 010 0801	-
16	09 30 016 0801	-
24	09 30 024 0801	-



Size	a	h
10	73	72
16	93.5	76
24	120	76

## Housings

## Housings

10	Page 05.12
16	Page 05.22
24	Page 05.28

# Cable entry protection



Identification

Part No.

Pg

Drawing

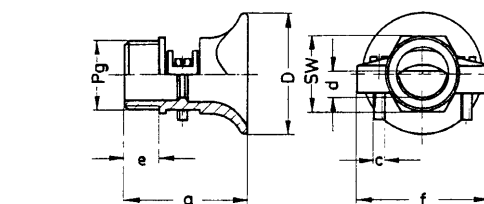
Dimensions in mm

**Special cable clamp**  
thermoplastic, with bell-mouth cable fitting and strain relief



09 00 000 5165  
09 00 000 5166  
09 00 000 5167  
09 00 000 5168  
09 00 000 5169  
09 00 000 5170

11  
13.5  
16  
21  
29  
36



a	c	D	d		e	SW	f	Pg
			min.	max.				
35	M3	33	6	11	9	19	35	11
36.5	M3	36	7.5	14	10	22	39	13.5
40	M4	38	10	16	10	24	45	16
47.5	M4	46	12.5	21	12	30	51	21
55.5	M5	60	17	29	13	41	64	29
62	M5	76	20.5	36	13	50	72	36

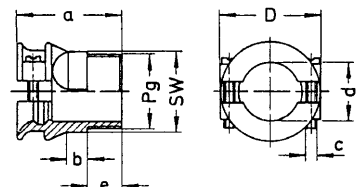
**Special cable clamp**  
metal, with bell-mouth cable fitting and strain relief

for Standard Hoods/Housings



09 00 000 5101  
09 00 000 5102  
09 00 000 5103  
09 00 000 5104  
09 00 000 5106

11  
13.5  
16  
21  
29



a	b	c	D	d		e	SW	Pg
				min.	max.			
26.6	4	M3	23	6	11	9	19	11
31	4	M3	28	9	14	10	22	13.5
33	5	M4	30	10	16	9.5	24	16
39.5	7	M4	37	13.5	21	12	20	21
49	8	M5	50	19	29	13	41	29

for Hoods/Housings Han M



09 37 000 5101  
09 37 000 5102  
09 37 000 5103  
09 37 000 5104  
09 37 000 5106

11  
13.5  
16  
21  
29

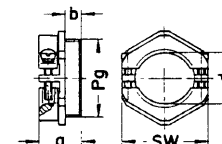
**Special cable clamp**  
brass, with strain relief



09 00 000 5196  
09 00 000 5197

36  
42

a	b	d		SW	Pg
		min.	max.		
25.3	9.5	25	37	52	36
26.3	10	31	43	59	42



**Normal seal**

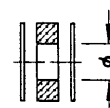
for Standard Hoods/Housings



09 00 000 5020  
09 00 000 5021  
09 00 000 5022  
09 00 000 5023  
09 00 000 5024  
09 00 000 5025  
09 00 000 5026

11  
13.5  
16  
21  
29  
36  
42

ø
11
13
15
20
29
36
42



**Multiple seal**

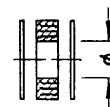
for Standard Hoods/Housings



09 00 000 5027  
09 00 000 5028  
09 00 000 5029  
09 00 000 5030  
09 00 000 5031  
09 00 000 5032  
09 00 000 5033

11  
13.5  
16  
21  
29  
36  
42

ø	
min.	max.
7.5	12.5
7.5	12.5
7.5	15
10	19
18	27
24	33
30	39



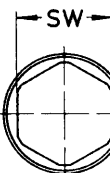
for Hoods/Housings Han M



09 37 000 5027  
09 37 000 5028  
09 37 000 5029  
09 37 000 5030  
09 37 000 5031

11  
13.5  
16  
21  
29

ø	
min.	max.
7.5	12.5
7.5	12.5
7.5	15
10	19
18	27



**Anti-twist device**

for special metal cable clamp and hexagonal adaptor



09 36 000 9901  
09 36 000 9902  
09 36 000 9903  
09 36 000 9904  
09 36 000 9905

11  
13.5  
16  
21  
29

SW
20
22
24
30
41



# Cable entry protection



Identification

Part No.

Pg

Drawing

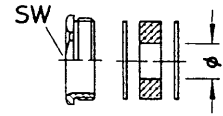
Dimensions in mm

**Cable sealing metal**  
with normal seal  
for Standard Hoods/Housings



09 00 000 5113	11
09 00 000 5114	13.5
09 00 000 5115	16
09 00 000 5116	21
09 00 000 5117	29
09 00 000 5146	36
09 00 000 5119	42

SW	ø
18	11
20	13
22	15
28	20
37	29
47	36
54	42



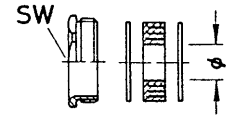
**Cable sealing metal**  
with multiple seal

for Standard Hoods/Housings



09 00 000 5013	11
09 00 000 5014	13.5
09 00 000 5015	16
09 00 000 5016	21
09 00 000 5017	29
09 00 000 5018	36
09 00 000 5019	42

SW	ø	
	min.	max.
18	7.5	12.5
20	7.5	12.5
22	7.5	15
28	10	19
37	18	27
47	24	33
54	30	39



for Hoods/Housings Han M



09 37 000 5013	11
09 37 000 5014	13.5
09 37 000 5015	16
09 37 000 5016	21
09 37 000 5017	29

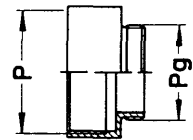
18	7.5	12.5
20	7.5	12.5
22	7.5	15
28	10	19
37	18	27

**Increasesers**  
metal



09 00 000 5050	11
09 00 000 5051	13.5
09 00 000 5052	16
09 00 000 5053	21
09 00 000 5054	29
09 00 000 5055	36
09 00 000 5056	42

P
13.5
16
21
29
36
42
48

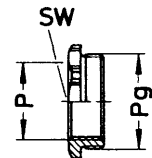


**Reducers**  
metal



09 00 000 5060	11
09 00 000 5061	13.5
09 00 000 5062	16
09 00 000 5063	21
09 00 000 5064	29
09 00 000 5065	36
09 00 000 5066	42
09 00 000 5067	48
09 00 000 5068	54
09 00 000 5069	60

P	SW
7	20
9	20
9	22
11	22
13.5	24
13.5	30
16	30
16	40
21	40
29	50

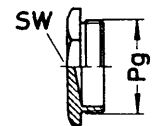


**Blanking piece**  
metal

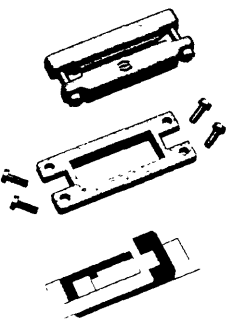


09 00 000 5070	11
09 00 000 5071	13.5
09 00 000 5072	16
09 00 000 5073	21
09 00 000 5074	29
09 00 000 5075	36
09 00 000 5076	42

SW
20
22
24
30
40
50
57



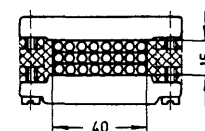
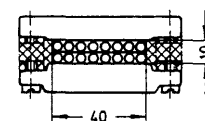
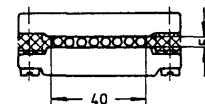
**Set of seals**  
with strain relief clamp



for 1 flat cable  
09 00 000 5315

for 2 flat cables  
09 00 000 5316

for 3 flat cables  
09 00 000 5317



Identification

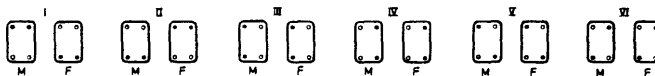
Part No.

Drawing

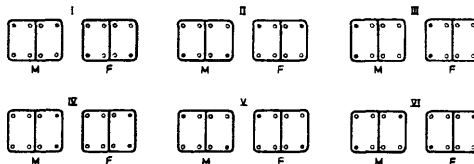
Dimensions in mm

Coding system with code pins

for hoods/housings with one insert



for hoods/housings with two inserts



● Code pins  
○ Normal mounting screw

M – Male connector  
F – Female connector



09 30 000 9901<sup>1)</sup>

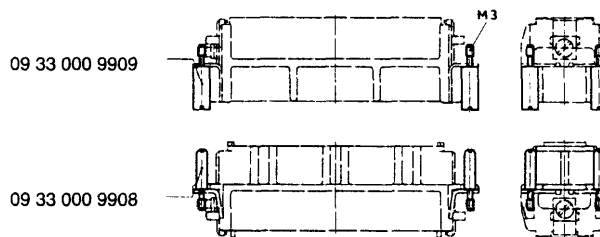
<sup>1)</sup> Order 4 pieces for one connector

Coding system with guide pins and bushes

This system is used to guard against angled coupling and decoupling of the connector. The maximum permitted angle according to DIN 43 652 is  $\pm 5^\circ$  (longitudinally).

Guide pin

09 33 000 9908<sup>1)</sup>



09 33 000 9909

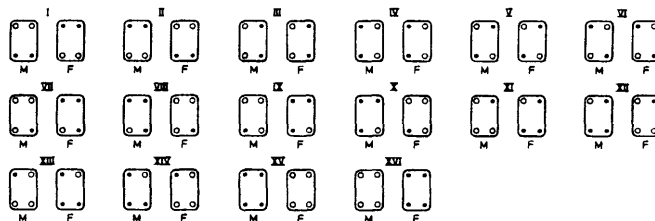
09 33 000 9908



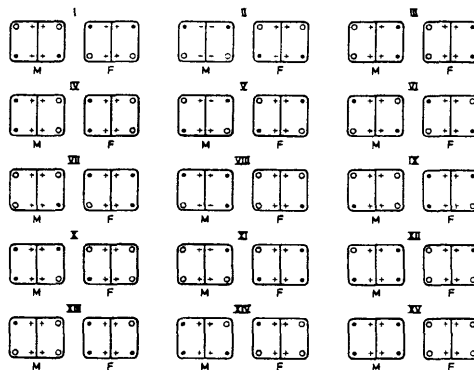
Bush

09 33 000 9909<sup>1)</sup>

for hoods/housings with one insert



for hoods/housings with two inserts



● Guide pin  
○ Bush  
+ Normal mounting screw







M – Male connector  
F – Female connector



<sup>1)</sup> Order 4 pieces for one connector

# Summary Han Crimping tools





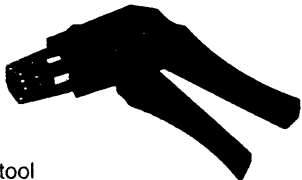





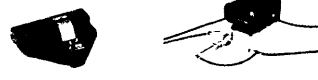
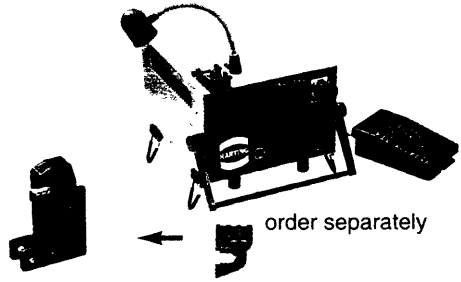





Identification	mm <sup>2</sup>	AWG	Crimping tool							Crimping tool depth adjustment gauge							
			09 99 000 0001	09 99 000 0110	09 99 000 0300	09 99 000 0303	09 99 000 0307	09 99 000 0314	Automatic crimping machine TK	09 99 000 0006	09 99 000 0007	09 99 000 0008	09 99 000 0009	09 99 000 0125	09 99 000 0203		
Power contacts Han C 09 32 ... ..	1.5	16	x					x	x								
	2.5	14	x					x	x		x						
	4.0	12	x			x	x	x		x							
	6.0	10				x	x						x				
Signal contacts Han D 09 15 ... ..	0.14	26	x*	x	x				x*								x*
	0.25	24	x*	x	x				x*								x
	0.37	22	x	x	x				x	x							x
	0.5	20	x	x	x				x	x		x					
	0.75	18	x	x	x				x	x		x					
	1.0	18	x	x	x				x	x		x					
	1.5	16	x	x	x				x	x			x				
	2.5	14	x						x	x		x					
Power contacts Han E 09 33 ... ..	0.5	20	x	x	x				x	x		x					
	0.75	18	x	x	x				x	x		x					
	1.0	18	x	x	x				x	x		x					
	1.5	16	x	x	x				x	x			x				
	2.5	14	x	x	x				x	x			x				
	4.0	12	x						x	x		x					

Identification	Part No.																
Locator																	
Han C	09 99 000 0308	x					x	x									
	09 99 000 0304					x											
Han D	09 99 000 0311	x						x									
	09 99 000 0301					x											
	09 99 000 0111						x										
Han E	09 99 000 0310	x						x									
	09 99 000 0302					x											
	09 99 000 0112						x										

\*) For wire gauge 0.14 mm<sup>2</sup> and 0.25 mm<sup>2</sup> use only male contacts 09 15 000 6107 respectively female contact 09 15 000 6207

# Crimping tools Signal contacts (Han D 09 15 . . .)



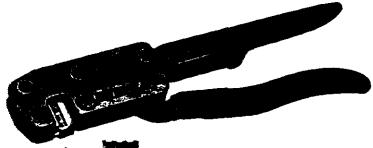

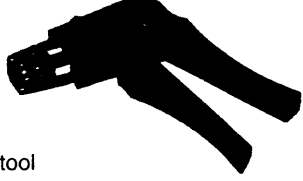


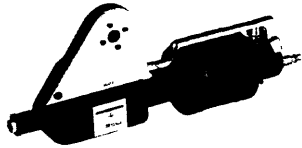
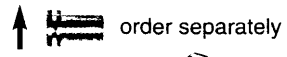
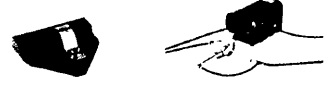
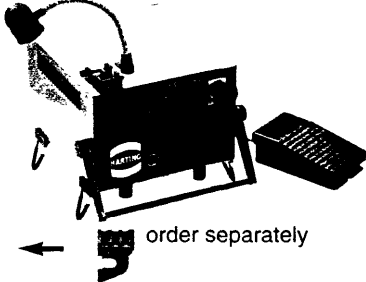




Identification	Part No.	Drawing	Dimensions in mm	
HARTING- crimping tool	09 99 000 0110	Wire gauge 0.14 - 1.5 mm <sup>2</sup>		
Locator	09 99 000 0111			 order separately
HARTING- crimping tool	09 99 000 0300	Wire gauge 0.14 - 1.5 mm <sup>2</sup>		
Locator as spare part	09 99 000 0301	Locator is supplied with the tool		
BUCHANAN- crimping tool	09 99 000 0001	Wire gauge 0.37 - 2.5 mm <sup>2</sup>		
Locator	09 99 000 0311			 order separately
Crimping tool depth adjustment gauge	09 99 000 0125	Wire gauge 0.37 mm <sup>2</sup> ø 1.30		
	09 99 000 0007	0.5-1 + 2.5 mm <sup>2</sup> ø 1.55		
	09 99 000 0008	1.5 mm <sup>2</sup> ø 1.80		
For FOC contact: Crimping tool	20 99 000 1032		 order separately	
Crimping tool depth adjustment gauge	20 99 001 1032	ø 1.45		
HARTING- pneumatic crimping tool	09 99 000 0314			
Locator	09 99 000 0311			 order separately
Crimping tool depth adjustment gauge	09 99 000 0125	Wire gauge 0.37 mm <sup>2</sup> ø 1.30		
	09 99 000 0007	0.5-1 + 2.5 mm <sup>2</sup> ø 1.55		
	09 99 000 0008	1.5 mm <sup>2</sup> ø 1.80		
Table fixing and foot switch for pneumatic crimping tool	09 99 000 0309			
HARTING- semi-automatic crimping device				
Main drive foot-operated 220 V/50 Hz	09 99 000 0246	Wire gauge 0.14 - 1.5 mm <sup>2</sup>		 order separately
Crimping head	09 99 000 0254			
Locator	09 99 000 0111			
Insertion tool for crimp contacts	09 99 000 0059			
Removal tool for crimp contacts (also for FOC contact)			 .. 0012	
Removal tool	09 99 000 0012		 .. 0004	
Replacement-tip of removal tool	09 99 000 0004		 .. 0052	
Removal tool	09 99 000 0052			

For crimp contacts with wires of less than 0.75 mm<sup>2</sup> it is recommended that an insertion tool is used. Contacts should be inserted from the wiring side and pushed down until a positive locking is achieved.

A removal tool is necessary if contacts are to be replaced in the insert. It is inserted from the mating face and pushed over the contact until a stop is noticeable. Additional pressure unlocks the contact and pushes it out of the wiring side. In case of the removal tool (. . 0052) the unlocking process is achieved by pressure on the central rod

# Crimping tools Power contacts (Han E 09 33 . . .)



Identification	Part No.	Drawing	Dimensions in mm
HARTING-crimping tool	09 99 000 0110	Wire gauge 0.5 - 2.5 mm <sup>2</sup>	
Locator	09 99 000 0112		 order separately
HARTING-crimping tool	09 99 000 0300	Wire gauge 0.5 - 2.5 mm <sup>2</sup>	
Locator as spare part	09 99 000 0302	Locator is supplied with the tool	
BUCHANAN-crimping tool	09 99 000 0001	Wire gauge 0.5 - 4 mm <sup>2</sup>	
Locator	09 99 000 0310		
Crimping tool depth adjustment gauge	09 99 000 0007 09 99 000 0008 09 99 000 0006	Wire gauge 0.5 - 1 mm <sup>2</sup> ø 1.55 1.5 - 2.5 mm <sup>2</sup> ø 1.80 4 mm <sup>2</sup> ø 2.00	 order separately
HARTING-pneumatic crimping tool	09 99 000 0314		
Locator	09 99 000 0310		
Crimping tool depth adjustment gauge	09 99 000 0007 09 99 000 0008 09 99 000 0006	Wire gauge 0.5 - 1 mm <sup>2</sup> ø 1.55 1.5 - 2.5 mm <sup>2</sup> ø 1.80 4 mm <sup>2</sup> ø 2.00	 order separately
Table fixing and foot switch for pneumatic crimping tool	09 99 000 0309		
HARTING-semi-automatic crimping device			
Main-drive foot-operated 220 V/50 Hz	09 99 000 0246		
Crimping head	09 99 000 0254	Wire gauge 0.5 - 2.5 mm <sup>2</sup>	
Locator	09 99 000 0112		 order separately
Insertion tool for crimp contacts	09 99 000 0059		
Crimp contact removal			
Stripping tool	09 99 000 0159		 For wires from 0.5 to 4.0 mm <sup>2</sup>




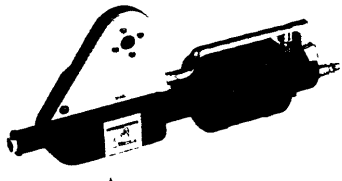

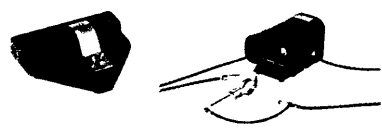

For crimp contacts wires of less than 0.75 mm<sup>2</sup> it is recommended that an insertion tool is used. Contacts should be inserted from the wiring side and pushed down until a positive locking is achieved.

Crimp contacts can be removed with the aid of a cross-slotted screwdriver (size 0 acc. DIN 5260). The tool has to be inserted into the corresponding hole of contact which has to be removed. Insert tool till stop is noticeable. The contact retention clip is released. The contact can then be withdrawn from the insert from the wiring side.



# Crimping tools Power contacts (Han C 09 32 . . .)

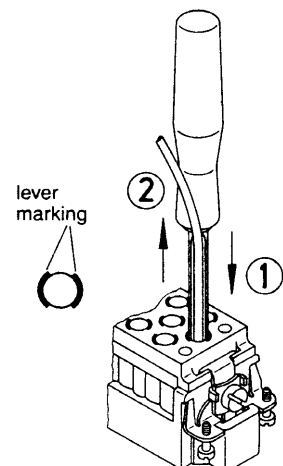


Identification	Part No.	Drawing	Dimensions in mm
BUCHANAN- crimping tool	09 99 000 0001	Wire gauge 1.5 - 4 mm <sup>2</sup>	
Locator	09 99 000 0308		
Crimping tool depth adjustment gauge	09 99 000 0008	Wire gauge 1.5 mm <sup>2</sup> ø 1.80	
	09 99 000 0007	2.5 mm <sup>2</sup> ø 1.55	
	09 99 000 0006	4 mm <sup>2</sup> ø 2.00	 order separately
HARTING- crimping tool	09 99 000 0303	Wire gauge 4 - 6 mm <sup>2</sup>	
Locator as spare part	09 99 000 0304	Locator is supplied with the tool	
HARTING- pneumatic crimping tool	09 99 000 0307		
Crimping tool depth adjustment gauge	09 99 000 0008	Wire gauge 1.5 mm <sup>2</sup> ø 1.80	
	09 99 000 0007	2.5 mm <sup>2</sup> ø 1.55	
	09 99 000 0006	4 mm <sup>2</sup> ø 2.00	
	09 99 000 0009	6 mm <sup>2</sup> ø 2.40	
Locator	09 99 000 0308		 order separately
Table fixing and foot switch for pneumatic crimping tool	09 99 000 0309		
Removal tool for crimp contacts			
Removal tool	09 99 000 0305		

A removal tool is necessary to remove the contacts.

For each „C“ contact cavity, the location of the internal locking levers are marked on the wiring side with two black arcs. The sides of the tool must be first properly aligned so that edges of the tool catch both levers simultaneously and then inserted until a stop is noticeable ①.

Once it has been inserted, the tool **may not** be turned. The wire together with the tool can then be pulled out from the wiring side of the insert ②.





# List of part numbers



Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
09 00 000 5013	05.41	09 00 000 5168	05 40	09 15 000 6224	05 19	09 30 016 0441	05.23
09 00 000 5014	05.41	09 00 000 5169	05.40	09 15 000 6224	05.11	09 30 016 0459	05.39
09 00 000 5015	05.41	09 00 000 5170	05.40	09 15 000 6224	05.21	09 30 016 0462	05.39
09 00 000 5016	05.41	09 00 000 5196	05.40	09 15 000 6225	05.11	09 30 016 0480	05.36
09 00 000 5017	05.41	09 00 000 5197	05.40	09 15 000 6225	05.19	09 30 016 0481	05.36
09 00 000 5018	05.41	09 00 000 5315	05.41	09 15 000 6225	05.21	09 30 016 0520	05.22
09 00 000 5019	05.41	09 00 000 5316	05.41	09 15 000 6226	05.11	09 30 016 0521	05.22
09 00 000 5020	05.40	09 00 000 5317	05.41	09 15 000 6226	05.19	09 30 016 0530	05.33
09 00 000 5021	05.40			09 15 000 6226	05.21	09 30 016 0531	05.33
09 00 000 5022	05.40					09 30 016 0540	05.23
09 00 000 5023	05.40					09 30 016 0541	05.23
09 00 000 5024	05.40	09 15 000 6101	05.11			09 30 016 0580	05.36
09 00 000 5025	05.40	09 15 000 6101	05.19	09 30 000 9901	05.42	09 30 016 0581	05.36
09 00 000 5026	05.40	09 15 000 6101	05.21	09 30 010 0232	05.12	09 30 016 0663	05.39
09 00 000 5027	05.40	09 15 000 6102	05.11	09 30 010 0272	05.12	09 30 016 0730	05 22
09 00 000 5028	05.40	09 15 000 6102	05.19	09 30 010 0273	05.12	09 30 016 0731	05.22
09 00 000 5029	05.40	09 15 000 6102	05.21	09 30 010 0301	05.12	09 30 016 0801	05.39
09 00 000 5030	05.40	09 15 000 6103	05.11	09 30 010 0302	05 33	09 30 016 1220	05.33
09 00 000 5031	05.40	09 15 000 6103	05.19	09 30 010 0303	05.13	09 30 016 1230	05.22
09 00 000 5032	05.40	09 15 000 6103	05.21	09 30 010 0305	05.13	09 30 016 1250	05.23
09 00 000 5033	05.40	09 15 000 6104	05 21	09 30 010 0318	05.13	09 30 016 1255	05.23
09 00 000 5050	05.41	09 15 000 6104	05.11	09 30 010 0422	05.12	09 30 016 1260	05.33
09 00 000 5051	05.41	09 15 000 6104	05.19	09 30 010 0423	05.12	09 30 016 1270	05.22
09 00 000 5052	05.41	09 15 000 6105	05.11	09 30 010 0433	05.33	09 30 016 1290	05.23
09 00 000 5053	05.41	09 15 000 6105	05.19	09 30 010 0442	05.13	09 30 016 1295	05.23
09 00 000 5054	05.41	09 15 000 6105	05.21	09 30 010 0443	05.13	09 30 016 1420	05.22
09 00 000 5055	05.41	09 15 000 6106	05.11	09 30 010 0460	05.39	09 30 016 1430	05.33
09 00 000 5056	05.41	09 15 000 6106	05.19	09 30 010 0522	05.12	09 30 016 1440	05.23
09 00 000 5060	05.41	09 15 000 6106	05.21	09 30 010 0523	05.12	09 30 016 1520	05.22
09 00 000 5061	05.41	09 15 000 6121	05.11	09 30 010 0532	05.33	09 30 016 1530	05.33
09 00 000 5062	05.41	09 15 000 6121	05.19	09 30 010 0542	05.13	09 30 016 1540	05.23
09 00 000 5063	05.41	09 15 000 6121	05.21	09 30 010 0543	05.13	09 30 016 1730	05.22
09 00 000 5064	05.41	09 15 000 6122	05 21	09 30 010 0801	05.39	09 30 016 1750	05 23
09 00 000 5065	05.41	09 15 000 6122	05.11	09 30 010 1221	05.33	09 30 016 2295	05.23
09 00 000 5066	05.41	09 15 000 6122	05.19	09 30 010 1231	05.12	09 30 016 4431	05.33
09 00 000 5067	05.41	09 15 000 6123	05.11	09 30 010 1251	05.13	09 30 016 5401	05.22
09 00 000 5068	05.41	09 15 000 6123	05.19	09 30 010 1256	05.13	09 30 016 5405	05.22
09 00 000 5069	05.41	09 15 000 6123	05.21	09 30 010 1261	05.33	09 30 016 5422	05.22
09 00 000 5070	05.41	09 15 000 6124	05 19	09 30 010 1271	05.12	09 30 016 5425	05.22
09 00 000 5071	05.41	09 15 000 6124	05.11	09 30 010 1291	05.13	09 30 016 5426	05.22
09 00 000 5072	05.41	09 15 000 6124	05.21	09 30 010 1296	05.13	09 30 024 0221	05.33
09 00 000 5073	05.41	09 15 000 6125	05.11	09 30 010 1421	05.12	09 30 024 0230	05.28
09 00 000 5074	05.41	09 15 000 6125	05.19	09 30 010 1431	05.33	09 30 024 0231	05.28
09 00 000 5075	05.41	09 15 000 6125	05.21	09 30 010 1441	05.13	09 30 024 0260	05.33
09 00 000 5076	05.41	09 15 000 6126	05.11	09 30 010 1521	05.12	09 30 024 0261	05.33
09 00 000 5086	05.38	09 15 000 6126	05.19	09 30 010 1531	05.33	09 30 024 0270	05.28
09 00 000 5087	05.38	09 15 000 6126	05.21	09 30 010 1541	05.13	09 30 024 0271	05.28
09 00 000 5088	05.38	09 15 000 6201	05.11	09 30 010 1731	05.12	09 30 024 0281	05.36
09 00 000 5089	05.38	09 15 000 6201	05.19	09 30 010 1751	05.13	09 30 024 0295	05.29
09 00 000 5090	05.38	09 15 000 6201	05.21	09 30 010 2296	05.13	09 30 024 0296	05.29
09 00 000 5091	05.38	09 15 000 6202	05.11	09 30 010 5401	05.12	09 30 024 0301	05.28
09 00 000 5092	05.38	09 15 000 6202	05.19	09 30 010 5407	05.12	09 30 024 0302	05.33
09 00 000 5093	05.38	09 15 000 6202	05.21	09 30 010 5423	05.12	09 30 024 0304	05 29
09 00 000 5094	05.38	09 15 000 6203	05.11	09 30 010 5425	05.12	09 30 024 0307	05.29
09 00 000 5095	05.38	09 15 000 6203	05.19	09 30 010 5427	05.12	09 30 024 0317	05.33
09 00 000 5096	05.38	09 15 000 6203	05.21	09 30 016 0230	05.22	09 30 024 0318	05.29
09 00 000 5097	05.38	09 15 000 6204	05.11	09 30 016 0231	05.22	09 30 024 0381	05.36
09 00 000 5098	05.38	09 15 000 6204	05.19	09 30 016 0260	05.33	09 30 024 0420	05.28
09 00 000 5099	05.38	09 15 000 6204	05.21	09 30 016 0261	05.33	09 30 024 0421	05.28
09 00 000 5101	05.40	09 15 000 6205	05.11	09 30 016 0270	05.22	09 30 024 0425	05.31
09 00 000 5102	05.40	09 15 000 6205	05.19	09 30 016 0271	05.22	09 30 024 0430	05.33
09 00 000 5103	05.40	09 15 000 6205	05.21	09 30 016 0281	05.36	09 30 024 0431	05.33
09 00 000 5104	05.40	09 15 000 6206	05 19	09 30 016 0301	05.22	09 30 024 0440	05.29
09 00 000 5106	05.40	09 15 000 6206	05.11	09 30 016 0302	05.33	09 30 024 0441	05.29
09 00 000 5113	05.41	09 15 000 6206	05.21	09 30 016 0306	05.23	09 30 024 0446	05.31
09 00 000 5114	05.41	09 15 000 6221	05.11	09 30 016 0307	05.23	09 30 024 0461	05.39
09 00 000 5115	05.41	09 15 000 6221	05.19	09 30 016 0317	05.33	09 30 024 0462	05.39
09 00 000 5116	05.41	09 15 000 6221	05.21	09 30 016 0318	05.23	09 30 024 0480	05.36
09 00 000 5117	05.41	09 15 000 6222	05.11	09 30 016 0381	05.36	09 30 024 0481	05.36
09 00 000 5119	05.41	09 15 000 6222	05.19	09 30 016 0420	05.22	09 30 024 0520	05 28
09 00 000 5146	05.41	09 15 000 6222	05.21	09 30 016 0421	05.22	09 30 024 0521	05.28
09 00 000 5165	05.40	09 15 000 6223	05 21	09 30 016 0430	05.33	09 30 024 0525	05.31
09 00 000 5166	05.40	09 15 000 6223	05.11	09 30 016 0431	05.33	09 30 024 0530	05.33
09 00 000 5167	05.40	09 15 000 6223	05.19	09 30 016 0440	05.23	09 30 024 0531	05.33

# List of part numbers



Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
09 30 024 0540	05.29	09 33 000 6102	05.11	09 37 024 1520	05.37	09 98 600 6333	05.47
09 30 024 0541	05.29	09 33 000 6104	05.11	09 37 024 1731	05.37	09 98 600 6334	05.47
09 30 024 0546	05.31	09 33 000 6105	05.11	09 37 024 5402	05.37	09 98 600 6334	05.47
09 30 024 0580	05.36	09 33 000 6107	05.11	09 37 024 5405	05.37	09 98 600 6335	05.47
09 30 024 0581	05.36	09 33 000 6109	05.11				
09 30 024 0663	05.39	09 33 000 6110	05.11				
09 30 024 0730	05.28	09 33 000 6111	05.11	09 38 006 2601	05.15		
09 30 024 0731	05.28	09 33 000 6114	05.11	09 38 006 2611	05.15	09 99 000 0001	05.44
09 30 024 0801	05.39	09 33 000 6115	05.11	09 38 006 2701	05.15	09 99 000 0001	05.45
09 30 024 1220	05.33	09 33 000 6116	05.11	09 38 006 2711	05.15	09 99 000 0001	05.46
09 30 024 1230	05.28	09 33 000 6118	05.11	09 38 012 2601	05.25	09 99 000 0004	05.44
09 30 024 1250	05.29	09 33 000 6119	05.11	09 38 012 2651	05.27	09 99 000 0006	05.45
09 30 024 1255	05.29	09 33 000 6121	05.11	09 38 012 2701	05.25	09 99 000 0006	05.45
09 30 024 1260	05.33	09 33 000 6122	05.11	09 38 012 2751	05.27	09 99 000 0006	05.46
09 30 024 1270	05.28	09 33 000 6123	05.11	09 38 018 2601	05.17	09 99 000 0006	05.46
09 30 024 1290	05.29	09 33 000 6202	05.11	09 38 018 2701	05.17	09 99 000 0007	05.44
09 30 024 1295	05.29	09 33 000 6204	05.11	09 38 032 3001	05.11	09 99 000 0007	05.44
09 30 024 1421	05.28	09 33 000 6205	05.11	09 38 032 3101	05.11	09 99 000 0007	05.45
09 30 024 1431	05.33	09 33 000 6207	05.11	09 38 042 3001	05.19	09 99 000 0007	05.45
09 30 024 1441	05.29	09 33 000 6214	05.11	09 38 042 3101	05.19	09 99 000 0007	05.46
09 30 024 1520	05.28	09 33 000 6215	05.11			09 99 000 0007	05.46
09 30 024 1530	05.33	09 33 000 6216	05.11			09 99 000 0008	05.44
09 30 024 1540	05.29	09 33 000 6218	05.11			09 99 000 0008	05.44
09 30 024 1731	05.28	09 33 000 6220	05.11	09 39 010 0310	05.38	09 99 000 0008	05.45
09 30 024 1751	05.29	09 33 000 6221	05.11	09 39 010 0405	05.38	09 99 000 0008	05.45
09 30 024 2295	05.29	09 33 000 6222	05.11	09 39 010 0406	05.38	09 99 000 0008	05.46
09 30 024 5401	05.28	09 33 000 6223	05.11	09 39 010 0505	05.38	09 99 000 0008	05.46
09 30 024 5405	05.28	09 33 000 9908	05.42	09 39 010 0506	05.38	09 99 000 0009	05.46
09 30 024 5422	05.28	09 33 000 9909	05.42	09 39 016 0310	05.38	09 99 000 0009	05.46
09 30 024 5425	05.28			09 39 016 0406	05.38	09 99 000 0012	05.44
09 30 024 5426	05.28			09 39 016 0407	05.38	09 99 000 0052	05.44
09 30 032 0231	05.34			09 39 016 0407	05.38	09 99 000 0059	05.44
09 30 032 0232	05.34	09 36 000 9901	05.40	09 39 016 0506	05.38	09 99 000 0059	05.45
09 30 032 0271	05.34	09 36 000 9902	05.40	09 39 024 0310	05.38	09 99 000 0110	05.44
09 30 032 0272	05.34	09 36 000 9903	05.40	09 39 024 0407	05.38	09 99 000 0110	05.45
09 30 032 0301	05.34	09 36 000 9904	05.40	09 39 024 0408	05.38	09 99 000 0111	05.44
09 30 032 0421	05.34	09 36 000 9905	05.40	09 39 024 0506	05.38	09 99 000 0111	05.44
09 30 032 0422	05.34			09 39 024 0507	05.38	09 99 000 0112	05.45
09 30 032 0521	05.34					09 99 000 0112	05.45
09 30 032 0522	05.34					09 99 000 0125	05.44
09 30 032 0523	05.34	09 37 000 5013	05.41	09 62 000 5005	05.38	09 99 000 0125	05.44
09 30 032 0732	05.34	09 37 000 5014	05.41	09 62 000 5006	05.38	09 99 000 0159	05.45
09 30 048 0290	05.35	09 37 000 5015	05.41	09 62 000 5007	05.38	09 99 000 0246	05.44
09 30 048 0291	05.35	09 37 000 5016	05.41	09 62 000 5008	05.38	09 99 000 0246	05.45
09 30 048 0295	05.35	09 37 000 5017	05.41	09 62 000 5009	05.38	09 99 000 0254	05.44
09 30 048 0296	05.35	09 37 000 5027	05.40	09 62 000 5010	05.38	09 99 000 0254	05.45
09 30 048 0301	05.35	09 37 000 5028	05.40	09 62 000 5011	05.38	09 99 000 0300	05.44
09 30 048 0317	05.35	09 37 000 5029	05.40	09 62 000 5012	05.38	09 99 000 0300	05.45
09 30 048 0440	05.35	09 37 000 5030	05.40	09 62 010 0301	05.38	09 99 000 0301	05.44
09 30 048 0441	05.35	09 37 000 5031	05.40	09 62 010 0301	05.38	09 99 000 0302	05.45
09 30 048 0442	05.35	09 37 000 5101	05.40	09 62 010 0440	05.38	09 99 000 0303	05.46
09 30 048 0540	05.35	09 37 000 5102	05.40	09 62 010 0441	05.38	09 99 000 0304	05.46
09 30 048 0541	05.35	09 37 000 5103	05.40	09 62 010 0540	05.38	09 99 000 0305	05.46
09 30 048 0542	05.35	09 37 000 5104	05.40	09 62 010 0541	05.38	09 99 000 0307	05.46
		09 37 000 5106	05.40	09 62 040 0301	05.38	09 99 000 0308	05.46
		09 37 010 0301	05.37	09 62 040 0440	05.38	09 99 000 0308	05.46
		09 37 010 1271	05.37	09 62 040 0441	05.38	09 99 000 0309	05.44
09 32 000 6104	05.19	09 37 010 1421	05.37	09 62 040 0540	05.38	09 99 000 0309	05.45
09 32 000 6104	05.21	09 37 010 1521	05.37	09 62 064 0301	05.38	09 99 000 0309	05.46
09 32 000 6105	05.19	09 37 010 1731	05.37	09 62 064 0440	05.38	09 99 000 0310	05.45
09 32 000 6105	05.21	09 37 010 5403	05.37	09 62 064 0441	05.38	09 99 000 0310	05.45
09 32 000 6107	05.19	09 37 010 5405	05.37	09 62 064 0540	05.38	09 99 000 0311	05.44
09 32 000 6107	05.21	09 37 016 0301	05.37	09 62 064 0541	05.38	09 99 000 0311	05.44
09 32 000 6108	05.19	09 37 016 0421	05.37			09 99 000 0313	05.17
09 32 000 6108	05.21	09 37 016 0521	05.37			09 99 000 0314	05.44
09 32 000 6204	05.19	09 37 016 1230	05.37			09 99 000 0314	05.45
09 32 000 6204	05.21	09 37 016 1521	05.37	09 98 000 6000	05.47		
09 32 000 6205	05.19	09 37 016 1730	05.37	09 98 000 6001	05.47		
09 32 000 6205	05.21	09 37 016 5402	05.37	09 98 000 6002	05.47		
09 32 000 6207	05.19	09 37 016 5405	05.37	09 98 600 6329	05.47	20 10 001 3211	05.11
09 32 000 6207	05.21	09 37 024 0271	05.37	09 98 600 6330	05.47	20 10 001 3211	05.19
09 32 000 6208	05.19	09 37 024 0301	05.37	09 98 600 6331	05.47	20 10 001 3211	05.21
09 32 000 6208	05.21	09 37 024 0421	05.37	09 98 600 6331	05.47	20 10 001 3221	05.11
09 32 012 3001	05.21	09 37 024 0521	05.37	09 98 600 6332	05.47	20 10 001 3221	05.19
09 32 012 3101	05.21					20 10 001 3221	05.21

## HARTING – branch offices in Germany

Baden-Württemberg  
71640 Ludwigsburg, Voithstraße 6  
Tel. (07141) 86891, Fax (07141) 86895

Bayern  
82152 Planegg bei München, Georgenstraße 6  
Tel. (089) 8561006, Fax (089) 8596782

90451 Nürnberg, Mülheimer Straße 15  
Tel. (0911) 96355-0, Fax (0911) 6426960

Berlin – Espelkamp\*

Brandenburg – Espelkamp

Bremen – Espelkamp

Hamburg – Espelkamp

Hessen – Espelkamp

Mecklenburg-Vorpommern – Espelkamp

Niedersachsen – Espelkamp

Nordrhein-Westfalen – Espelkamp

Rheinland-Pfalz/Saarland  
71640 Ludwigsburg, Voithstraße 6  
Tel. (07141) 86891, Fax (07141) 86895

Sachsen/Sachsen-Anhalt/Thüringen  
09113 Chemnitz, Blankenauer Straße 99  
Tel. (0371) 429211, Fax (0371) 429222

Schleswig-Holstein – Espelkamp

\* Postfach 1140, 32325 Espelkamp  
Tel. (05772) 47-0, Fax (05772) 47-461/282

## Foreign representatives

### Australia

Brazil  
MIDES ELECTRÔNICA LTDA.  
R. Christiano Ottoni, 288  
33600-000 - Pedro Leopoldo - MG  
Tel. (031) 661-1641, Fax (031) 661-1650

Denmark  
Knud Wexøe A/S  
Skaettekæret 11, P.O. Box 152  
DK-2840 Holte  
Tel. 42423211, Fax 42423450

Finland  
SKS-tekniikka Oy  
Laurinmäenkuja 3, P.O. Box 40  
SF-00441 Helsinki  
Tel. 0-852661, Tx 124577, Fax 0-8526820

Portugal  
UNIMAQUE-ELÉTRONICA E  
ELECTRICIDADE INDUSTRIAL, LDA.  
Rua Augusto Gil, 22-B  
P-1000 Lisboa  
Tel. (01) 7966732/85, Fax (01) 7960924

South-Africa  
Bowthorpe-Hellermann-Deutsch (Pty) Ltd.  
80 Mimetes Road, Denver Ext. 9  
ZA-Johannesburg  
Tel. (011) 616-1960, (011) 615-6520  
Fax (011) 616-4715, Tx 4-28327

Turkey  
METESAN  
Tünel, Ensiz Sokak Tünel Cecdii  
Is Hani No. 3  
Beyoglu 80050 Istanbul  
Tel. (212) 2435050, Fax (212) 2490143

## Production plants

Espelkamp plant 1, plant 2, plant 3  
Northampton, Great Britain  
Biel, Switzerland  
Hong Kong

## Distributors – Germany

Helmut Becker, Ing. GmbH  
Elektrogroßhandel  
Leipziger Straße 34, 04579 Espenhan  
Tel. (034206) 744437, Fax (034206) 743564

elektro-bauelemente May KG  
Trabener Straße 65, 14193 Berlin  
Tel. (030) 8925002, Fax (030) 8919902

Hillmann & Ploog GmbH + Co KG  
Ivo-Hauptmann-Ring 9, 22159 Hamburg  
Tel. (040) 64588-0, Tx 215183  
Fax (040) 64588440

EVN  
Elektro-Vertrieb-Nord GmbH  
Industriestraße 30, 24536 Neumünster  
Tel. (04321) 954-221, Fax (04321) 954-229

straschu Industrie Elektronik GmbH  
Mackenstedter Straße 11  
28816 Stuhr/Groß Mackenstedt  
Tel. (04206) 4171-0  
Fax (04206) 4171-50

setron-Schiffer-Elektronik GmbH & Co KG  
Friedrich-Seele-Straße 3a,  
38122 Braunschweig  
Tel. (0531) 8098-0, Tx 952812  
Fax (0531) 8098-789, Teletex 5318307

EVG-Martens GmbH & Co KG  
Trompeterallee 244, 41189 Mönchengladbach  
Tel. (02166) 5508-0, Tx 852275  
Fax (02166) 550890

RTG-Elektronik GmbH  
Oberste-Wilms-Straße 27, 44309 Dortmund  
Tel. (0231) 562073-0  
Fax (0231) 562073-26

REPRO ELEKTRONIK GmbH  
Obere Zeil 4, 61440 Oberursel  
Tel. (06171) 63070, Tx 410836  
Fax (06171) 630763

Peter Seiwert GmbH  
Heusweiler Straße 92,  
66557 Illingen-Uchtelfangen  
Tel. (06825) 408-0, Tx 444102  
Fax (06825) 408-40/-41

HTF elektro GmbH  
Mallastraße 76 (Gewerbegebiet Mallau)  
68219 Mannheim  
Tel. (0621) 8776-0, Fax (0621) 8776-100

Farnell Electronic GmbH  
Bahnhofstraße 44, 71696 Möglingen  
Tel. (07141) 487-0, Tx 7264472  
Fax (07141) 487-210

Emil Ratz GmbH  
Kelterstraße 15-17, 75179 Pforzheim  
Tel. (07231) 3708-0, Tx 783469  
Fax (07231) 370899

Eckert & Graf GmbH  
Zollstraße 7, 78239 Rielasingen  
Tel. (07731) 59070, Tx 793848  
Fax (07731) 22673

Findler & Sohn  
Schwanthalerstraße 25, 80336 München  
Tel. (089) 551801-0, Teletex 17 897 575

A. Schweiger GmbH  
Klausnerring 20, 85551 Heimstetten  
Tel. (089) 905003-0, Fax (089) 9037466

Farnell Electronic Components GmbH  
Grünwalder Weg 30, 82041 Deisenhofen  
Tel. (089) 6130301, Fax (089) 61303119

Falkenberg Sensortechnik GmbH  
Boxdorfer Straße 11, 90765 Furth  
Tel. (0911) 930620, Fax (0911) 9306233

## HARTING-Subsidiary companies

Austria  
HARTING  
*elektronische Bauelemente Ges. m.b.H.*  
Himbergerstraße 25, A-1100 Wien  
Tel. (1) 686818 + 19, Tx (61) 3222690,  
Fax (1) 686903

Belgium  
N. V. HARTING *Elektronik S. A.*  
Doornveld 8, B-1731 Zellik  
Tel. 02-4660190, Tx 64573, Fax 02-4667855

Czech Republic  
HARTING *Elektronik spol. s r. o.*  
Poděbradská 186/56, 18066 Praha 9  
Tel. (02) 66107-475/-483, Fax (02) 862047

France  
HARTING *Elektronik France E.U.R.L.*  
ZAC Paris Nord II, 181, av des Nations  
B.P. 60058  
F-95972 Roissy Charles de Gaulle Cedex  
Tel. (1) 49383400, Tx 231.610,  
Fax (1) 48632306

Great Britain  
HARTING *Elektronik Ltd.*  
Caswell Road, Brackmills Industrial Estate  
GB-Northampton, NN 47 PW  
Tel. (01604) 766686, Fax (01604) 706777

Hong Kong  
HARTING *Elektronik (HK) Ltd.*  
9<sup>th</sup> Floor, Chung Shun Knitting Centre 1-3  
Wing Yip Street, Kwai Chung N.T., Hongkong  
Tel. 0852-24221809, Fax 0852-24804378

Italy  
HARTING *Elektronik SpA*  
Via Dell'Industria 7,  
I-20090 Vimodrone (Milano)  
Tel. (02) 27400300, Fax (02) 2650534

Japan  
HARTING *Elektronik Co., Ltd.*  
5F German Industry Center 407  
18-2, Hakusan 1-Chome, Midori-ku  
Yokohama 226/Japan  
Tel. (045) 931-5715, Fax (045) 931-5719

Netherlands  
HARTING *Elektronik B.V.*  
Larenweg 44, NL-5234 KA's-Hertogenbosch  
Postbus 3526, NL-5203 DM's-Hertogenbosch  
Tel. (073) 410404, Fax (073) 440699

Norway  
HARTING *Elektronik A/S*  
Østensjøveien 36, N-0667 Oslo  
Tel. 22-647590, Tx 76399, Fax 22-647393

Russia  
197342 Sankt Petersburg, Wiborgskaja nab. 67  
AO HARTING *Elektronik*  
Tel. 007-812-2451074, Fax 007-812-2420857

Spain  
HARTING *Elektronik S.A.*  
Josep Tarradellas 20-30 4<sup>o</sup>5<sup>a</sup>,  
E-08029 Barcelona  
Tel. 3-4192838, Fax 3-4199585

Sweden  
HARTING *Elektronik AB*  
Fagerstagatan 3, S-16353 Spånga  
Tel. (08) 7617980, Tx 8125158,  
Fax (08) 364442

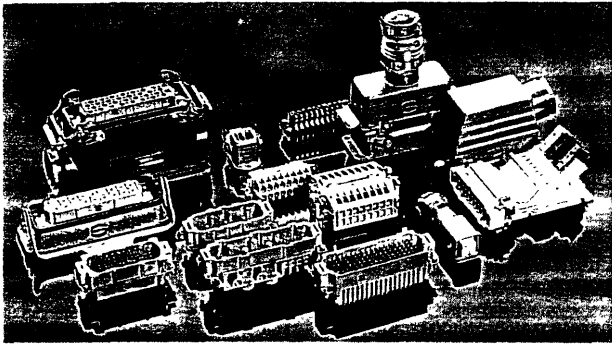
Switzerland  
HARTING *Elektronik AG*  
Industriestrasse 26, CH-8604 Volketswil  
Tel. 01-9460966, Fax 01-9460970

USA  
HARTING *Elektronik Inc.*  
2155 Stonington Ave., Suite 212,  
P.O. Box 95710  
Hoffman Estates, Illinois 60195-0710  
Tel. (708) 519-7700, Fax (708) 519-9771

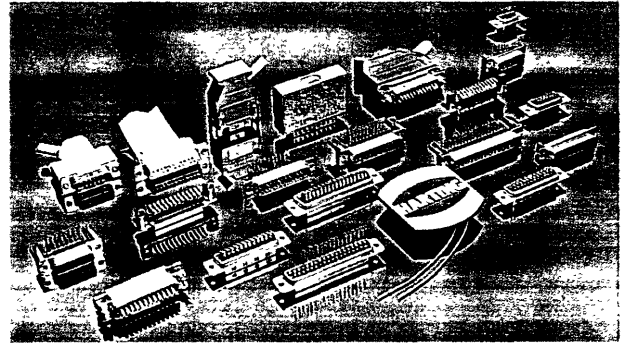
East-Europe  
HARTING *Elektronik Bauelemente GmbH*  
Tiergartenstraße 94, D-01219 Dresden  
Tel. (0351) 2328457/58, Fax (0351) 2328458

South-East-Europe and other foreign countries  
HARTING *Elektronik GmbH*  
Postfach 1140, D-32325 Espelkamp

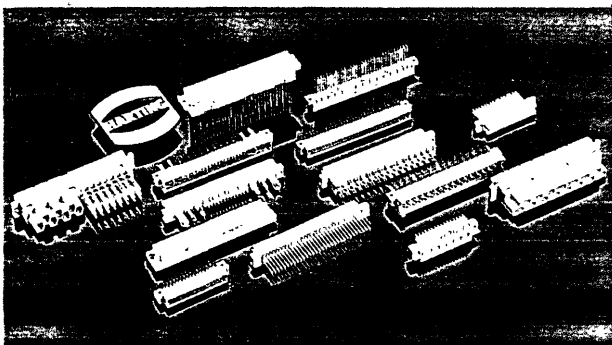
# Some of the components from the HARTING range



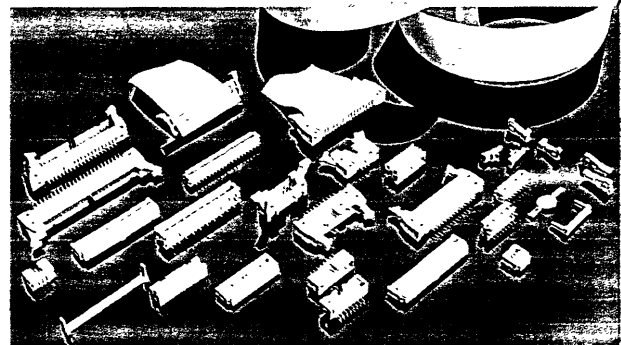
Heavy Duty Connectors  
for industrial engineering



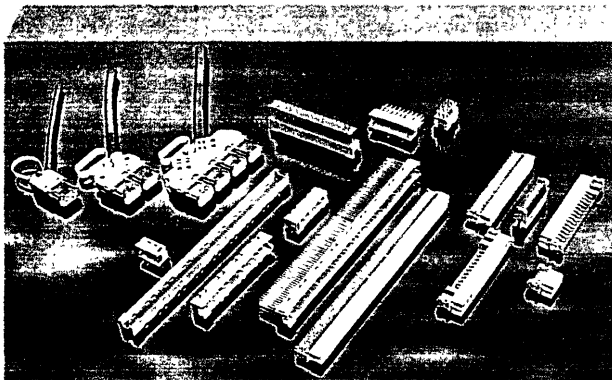
Subminiature D-Connectors  
DIN 41 652



Printed Circuit Connectors  
DIN 41 612 · DIN 41 617



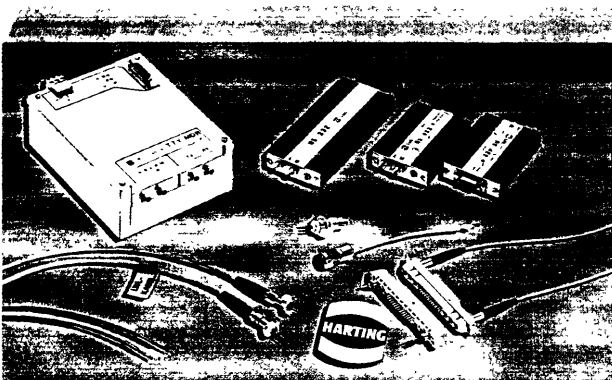
Flat Cable Connector System  
DIN 41 651



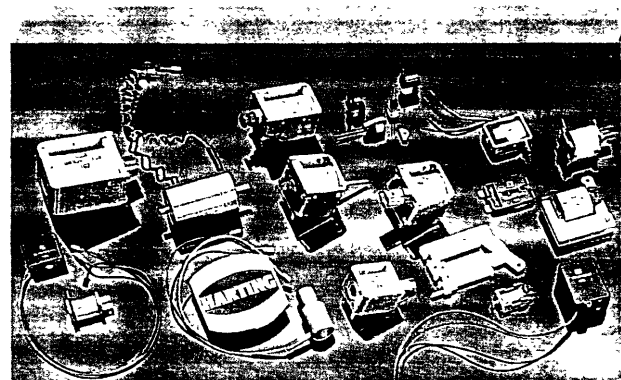
High Density Connector System  
Modular · Metric · DIN 41 642



Micro-Electronic-Connectors  
Contact spacing 1.27 mm



Fiber Optic Data Link  
Systems and components



Solenoids



HARTING *Elektronik GmbH*  
Marienwerderstraße 3 · D-32339 Espelkamp  
Postfach 11 40 · D-32325 Espelkamp  
☎ (0 57 72) 47-0 · Fax (0 57 72) 47-4 95  
☐ 9 72 310 he d

---

Distribution in Germany

Branch Office  
Chemnitz  
Ludwigsburg  
München  
Nürnberg

International distribution

Subsidiary companies  
Austria, Belgium, Czech Republic,  
France, Great Britain, Hong Kong, Italy,  
Japan, Netherlands, Norway, Russia,  
Spain, Sweden, Switzerland, USA

Agencies

Australia, Brazil, Denmark,  
Finland, Portugal, South Africa, Turkey

South-East-Europe  
and other foreign countries  
HARTING *Elektronik GmbH*

Production plants

Worldwide  
Germany,  
Great Britain,  
Switzerland,  
Hong Kong