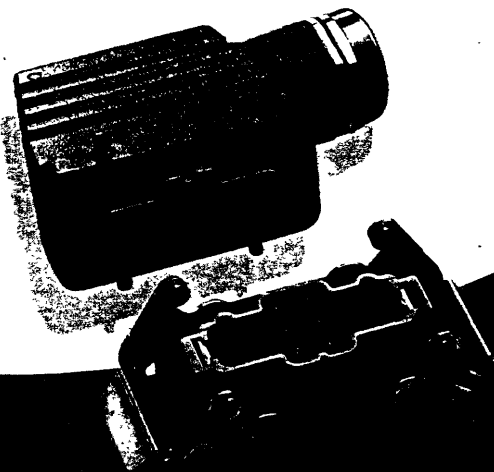


658 - 480 TO 509 102
659 - 368 TO 460

Heavy Duty Connectors Han-Com[®]



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.

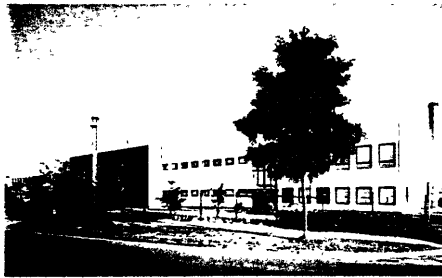
The divisions electronic connectors, heavy duty connectors Han® and solenoids are certified according to DIN ISO 9001 for design/R & D, production, assembly and customer service.

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.



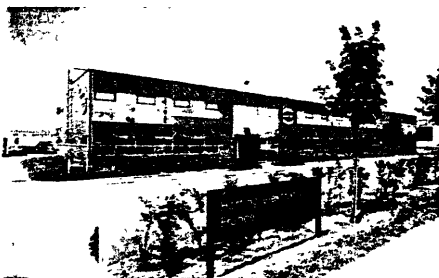
Germany - Plant 1 Espelkamp



Germany - Plant 2 Espelkamp



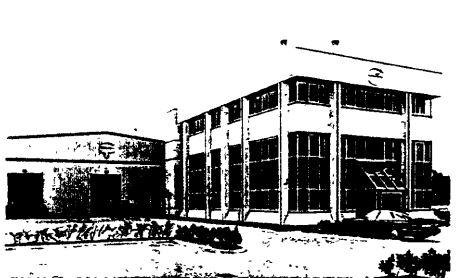
Germany - Plant 3 Espelkamp



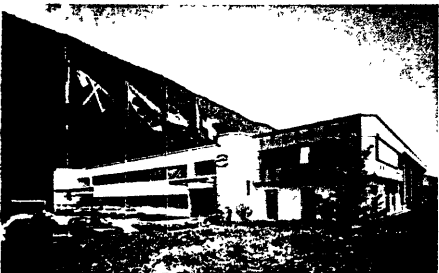
France - Sales and marketing



Espelkamp - Staff Cafeteria



United Kingdom - Production, sales and marketing



Switzerland - Production plant



Hong Kong - Production, sales and marketing



Italy - Sales and marketing

Han-Com®

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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.

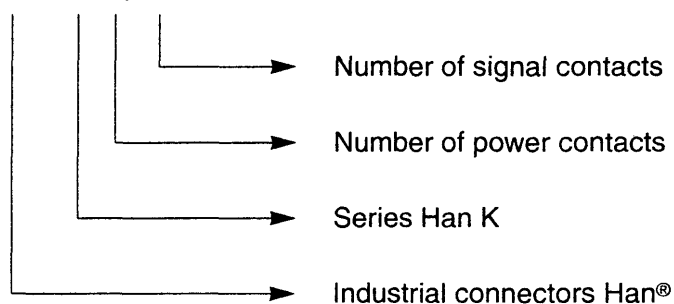
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We are bound by the German version only.

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

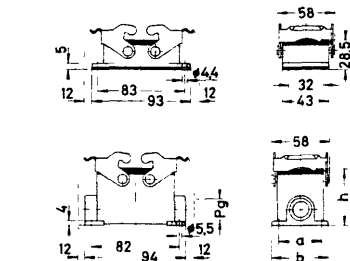
- The number before the slash goes for the power area
- The number behind the slash goes for the signal area

Standard Hoods/Housings with 2 levers on the housing



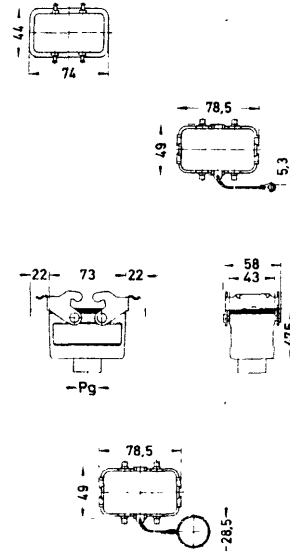
Identification	Part No.		Pg	Drawing	Dimensions in mm
	Low construction	High construction			
Hoods side-entry		09 30 010 1521	16		
		09 30 010 0522	21		
		09 30 010 0523	29		
Hoods top-entry		09 30 010 1421	16		
		09 30 010 0422	21		
		09 30 010 0423	29		
Protection cover metal		09 30 010 5401			
		09 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

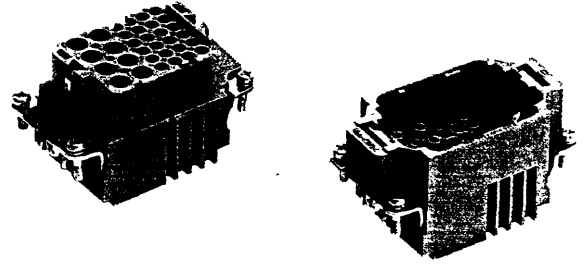


Han K 8/24



Number of contacts

8/24 +

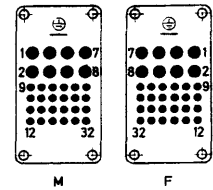


Inserts

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		

¹⁾ Distance for contact max. 21 mm

Contact arrangement
View from termination side

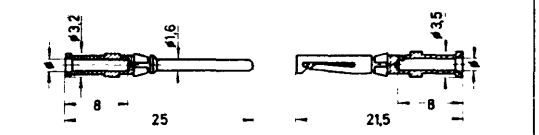


Identification	Wire gauge (mm ²)	Part No.		
		Male contacts	Female contacts	
Crimp contacts Power contacts	0.5	09 33 000 6121	09 33 000 6220	
	0.75	09 33 000 6114	09 33 000 6214	
	1.0	09 33 000 6105	09 33 000 6205	
	1.5	09 33 000 6104	09 33 000 6204	
	2.5	09 33 000 6102	09 33 000 6202	
	4.0	09 33 000 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	

Drawing	Dimensions in mm	
	Operating contact Identification	Relay contact

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

* on crimp collar at the back


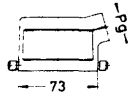

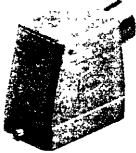
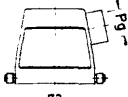
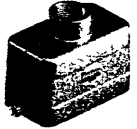
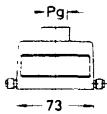


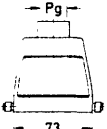

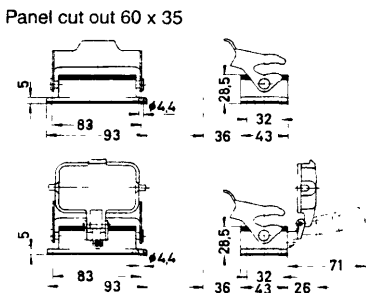
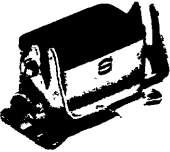
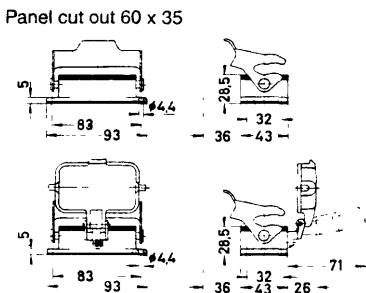
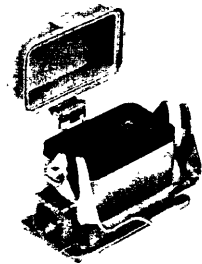
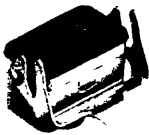
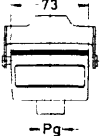
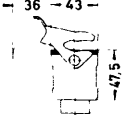


Wire gauge	σ	Stripping length
0.14-0.37 mm ²	AWG 26-22	0.90 mm 8 mm
0.5 mm ²	AWG 20	1.10 mm 8 mm
0.75 mm ²	AWG 18	1.30 mm 8 mm
1.0 mm ²	AWG 18	1.45 mm 8 mm
1.5 mm ²	AWG 16	1.75 mm 8 mm
2.5 mm ²	AWG 14	2.25 mm 6 mm

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			
Hoods side-entry		09 30 010 1541	16		
			09 30 010 0542	21	
Hoods top-entry		09 30 010 1441	16		
			09 30 010 0442	21	
Housings bulkhead mounting		09 30 010 0305			
		with thermo-plastic cover 09 30 010 0303			
		with metal cover 09 30 010 0318			
Housings surface mounting		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		
		with thermo-plastic cover 09 30 010 2296	16		
		with metal cover 09 30 010 2296	16		
Hoods cable to cable		09 30 010 1751	16		

" Blind way for one cable entry



Specifications

DIN VDE 0627
DIN VDE 0110

Approvals

UL / CSA

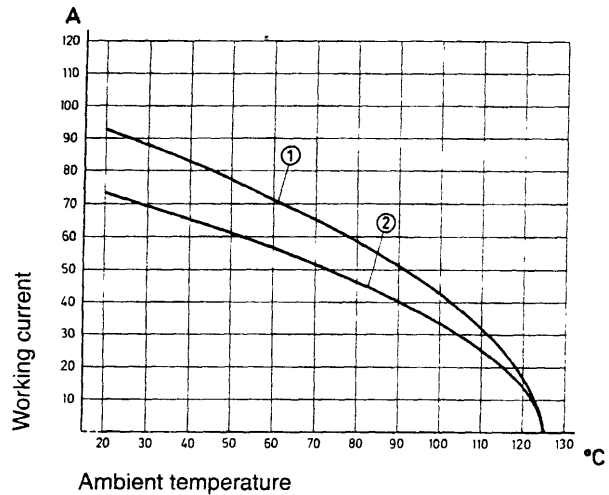
Current carrying capacity

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	≥ 500
Working voltage acc. to UL/CSA	600 V / 300 V



Contacts

Material	copper alloy
Contact surface	hard-silver plated
Contact resistance	$3 \mu m Ag$
Screw terminal	$\leq 0.3 m\Omega / 1 m\Omega$
- mm²	1.5 - 16 / 0.5 - 2.5 mm²
- AWG	16 - 5 / 20 - 14
- Tightening / test torque	0.8 Nm / 0.5 Nm

① Wire gauge: 16 mm²
② Wire gauge: 10 mm²

Hoods/Housings

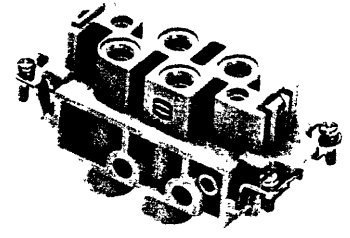
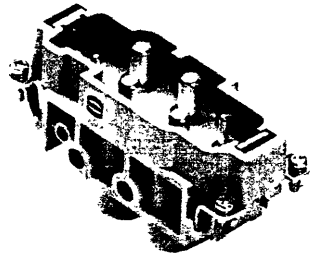
Material	GD-Al Si 8
Surface	powder-coated
Locking element	steel, galvanized
Hoods/Housings sealing	NBR
Temperature range	- 40 °C +125 °C
Degree of protection acc. to DIN 40 050 for coupled connector	IP 65
Vibration resistance	
Resistance to shock	
Material of covers	
- Plastic	Polyamid 6
- Die cast metal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

Han K 4/0, Han K 4/2



Number of contacts

4/0, 4/2 +

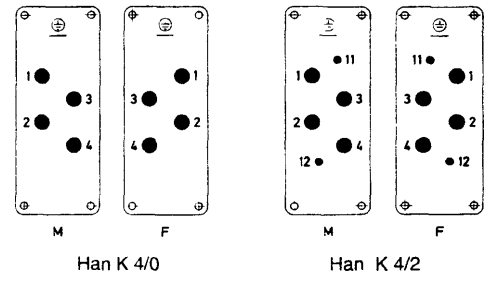


Inserts

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		

¹⁾ 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.

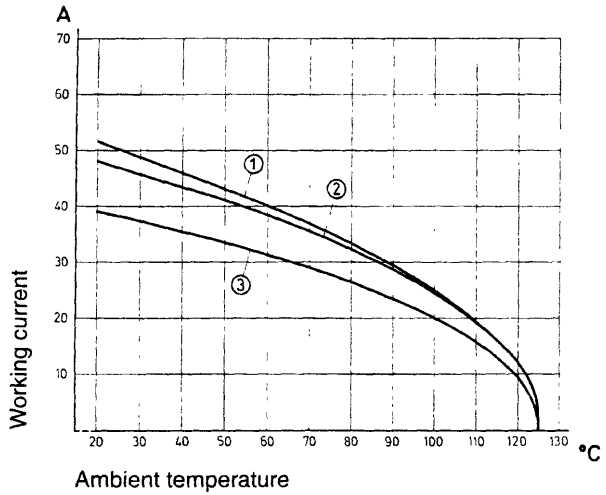
Control and test procedures according to DIN IEC 512-3.

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 ≥ 500
Working voltage acc. to UL/CSA 600 V / 300 V

Contacts

Material copper alloy
Contact surface hard-silver plated 3 μ m Ag
Contact resistance $\leq 0.5 \text{ m}\Omega / 3 \text{ m}\Omega$
Screw terminal
- mm² 2.5 - 10 / 0.2 - 2.5 mm²
- AWG 13 - 7 / 24 - 13
- Tightening / test torque 1 Nm / 0.8 Nm



- ① Wire gauge: 10 mm²
- ② Wire gauge: 6 mm²
- ③ Wire gauge: 4 mm²

Hoods/Housings

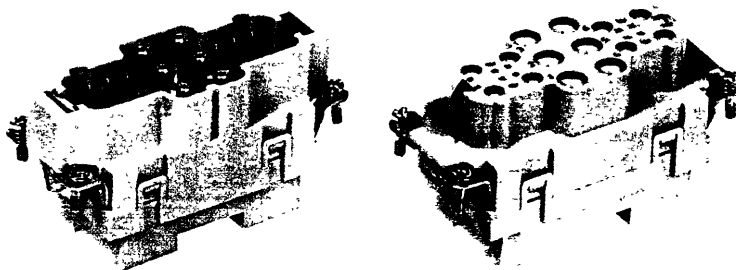
Material GD-Al Si 8
Surface powder-coated
Locking element steel, galvanized
Hoods/Housings sealing NBR
Temperature range - 40 °C +125 °C
Degree of protection acc. to DIN 40 050 IP 65
for coupled connector
Material of covers
- Plastic Polyamid 6
- Die cast metal GD-Al Si 8

Han K 6/12



Number of contacts

6/12 +

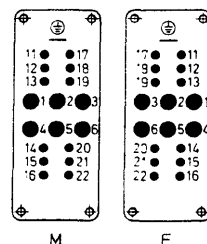


Inserts

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		

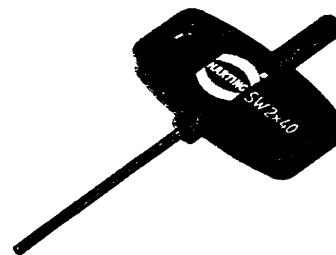
¹⁾ Distance for contact max. 21 mm

Contact arrangement View from termination side



Screwdriver
for axial setscrew.

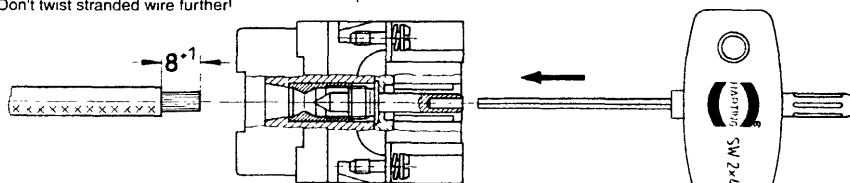
09 99 000 0313



Working instructions for axial setscrew

For stranded wire 2.5 - 10 mm² fine wire
(superfine wire 2.5 - 6 mm²)
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



Specifications DIN VDE 0627
 DIN VDE 0110

Approvals UL / CSA

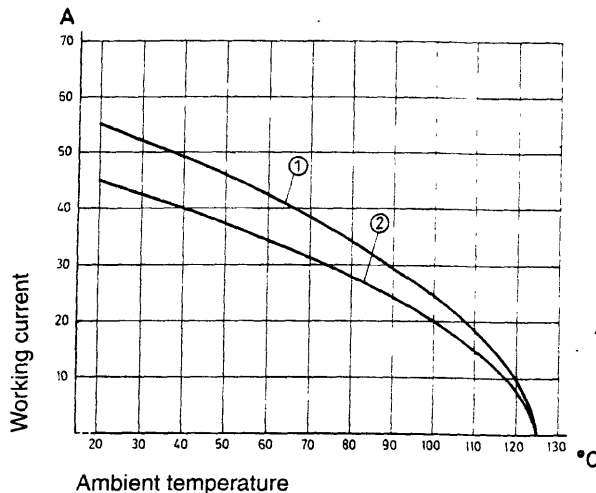
Inserts

Number of contacts 6 / 36 + 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 ≥ 500
 Working voltage 600 V / 300 V
 acc. to 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.



- ① Wire gauge: 6 mm²
- ② Wire gauge: 4 mm²

Contacts

Material copper alloy
 Contact surface hard-silver plated 3 μ m Ag
 hard-gold plated 2 μ m Au over 3 μ m Ni
 Contact resistance $\leq 0.3 \text{ m}\Omega / 3 \text{ m}\Omega$
 Crimp terminal
 - mm² 1.5 - 6 / 0.14 - 2.5 mm²
 - 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 IP 65
 acc. to DIN 40050
 for coupled connector
 Material of covers
 - Plastic Polyamid 6
 - Die cast metal GD-Al Si 8

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

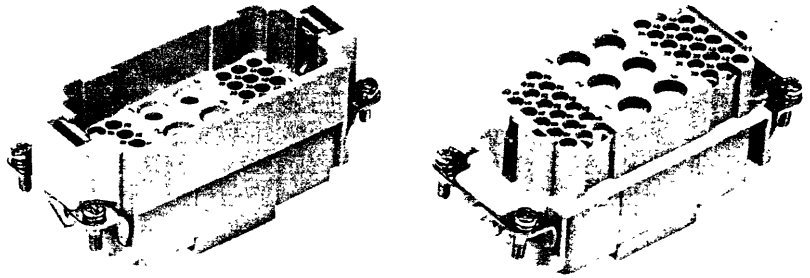
Description see removal tool page 05.46

Han K 6/36



Number of contacts

6/36 +

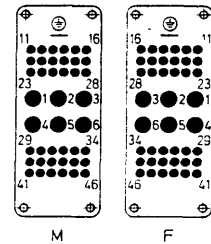


Inserts

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 ²)	Part No.		Drawing	Dimensions in mm			
		Male contacts	Female contacts					
Crimp contacts Power contacts silver plated	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					
	6.0	09 32 000 6108	09 32 000 6208					
Signal contacts silver plated	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					

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

Hoods/Housings, see page 05.22



Specifications DIN VDE 0627
 DIN VDE 0110

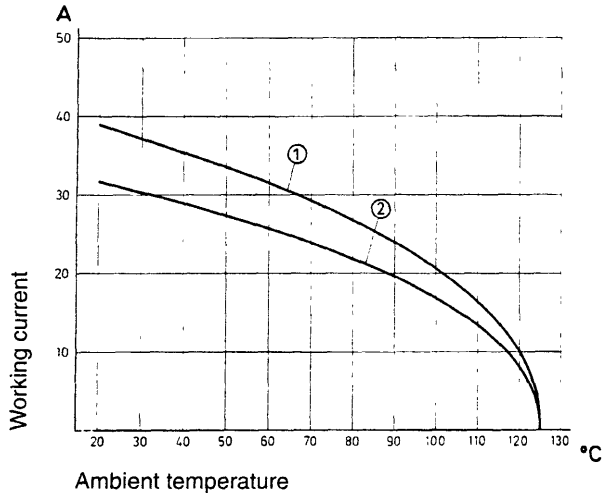
Approvals UL / CSA

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 ≥ 500
 Working voltage 600 V / 300 V
 acc. to 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.



- ① Wire gauge: 6 mm²
- ② Wire gauge: 4 mm²

Contacts
 Material copper alloy
 Contact surface hard-silver plated 3 μ m Ag
 hard-gold plated 2 μ m Au over 3 μ m Ni
 Contact resistance $\leq 0.3 \text{ m}\Omega / 3 \text{ m}\Omega$
 Crimp terminal
 - mm² 1.5 - 6 / 0.14 - 2.5 mm²
 - 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

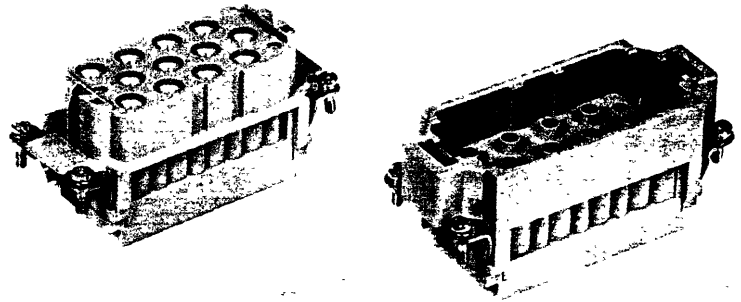
**Removal of Power Contacts
 (Han C contacts)**
 Description see removal tool page 05.46

Han K 12/2 (12 HsC)



Number of contacts

12/2 +

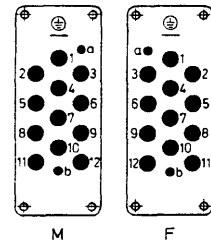


Inserts

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		

¹⁾ Distance for contact max. 21 mm

Contact arrangement View from termination side



Identification	Wire gauge (mm ²)	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																														
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	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 mm² AWG 16</td> <td>1.75 mm</td> <td>9 mm</td> <td>9 mm</td> </tr> <tr> <td>2.5 mm² AWG 14</td> <td>2.25 mm</td> <td>9 mm</td> <td>9 mm</td> </tr> <tr> <td>4.0 mm² AWG 12</td> <td>2.85 mm</td> <td>9.5 mm</td> <td>9.5 mm</td> </tr> <tr> <td>6.0 mm² 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 ² AWG 16	1.75 mm	9 mm	9 mm	2.5 mm ² AWG 14	2.25 mm	9 mm	9 mm	4.0 mm ² AWG 12	2.85 mm	9.5 mm	9.5 mm	6.0 mm ² AWG 10	3.5 mm	9.5 mm	9.5 mm								
Wire gauge	ø	Stripping length																															
1.5 mm ² AWG 16	1.75 mm	9 mm	9 mm																														
2.5 mm ² AWG 14	2.25 mm	9 mm	9 mm																														
4.0 mm ² AWG 12	2.85 mm	9.5 mm	9.5 mm																														
6.0 mm ² 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																														
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	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 mm² AWG 26-22</td> <td>0.90 mm</td> <td>8 mm</td> <td>8 mm</td> </tr> <tr> <td>0.5 mm² AWG 20</td> <td>1.10 mm</td> <td>8 mm</td> <td>8 mm</td> </tr> <tr> <td>0.75 mm² AWG 18</td> <td>1.30 mm</td> <td>8 mm</td> <td>8 mm</td> </tr> <tr> <td>1.0 mm² AWG 18</td> <td>1.45 mm</td> <td>8 mm</td> <td>8 mm</td> </tr> <tr> <td>1.5 mm² AWG 16</td> <td>1.75 mm</td> <td>8 mm</td> <td>8 mm</td> </tr> <tr> <td>2.5 mm² 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 ² AWG 26-22	0.90 mm	8 mm	8 mm	0.5 mm ² AWG 20	1.10 mm	8 mm	8 mm	0.75 mm ² AWG 18	1.30 mm	8 mm	8 mm	1.0 mm ² AWG 18	1.45 mm	8 mm	8 mm	1.5 mm ² AWG 16	1.75 mm	8 mm	8 mm	2.5 mm ² AWG 14	2.25 mm	6 mm	6 mm
Wire gauge	ø	Stripping length																															
0.14-0.37 mm ² AWG 26-22	0.90 mm	8 mm	8 mm																														
0.5 mm ² AWG 20	1.10 mm	8 mm	8 mm																														
0.75 mm ² AWG 18	1.30 mm	8 mm	8 mm																														
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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"


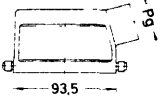
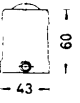
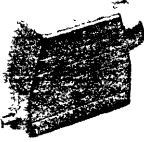
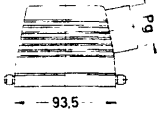

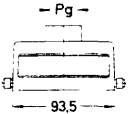

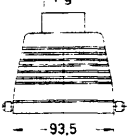
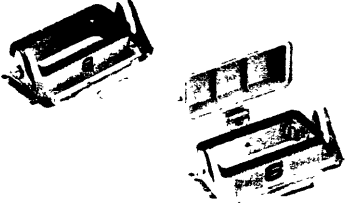
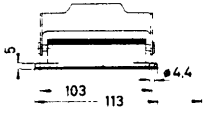
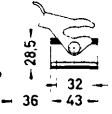
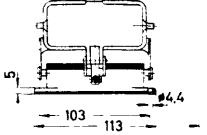
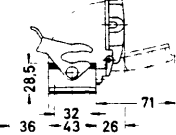

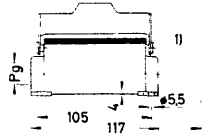
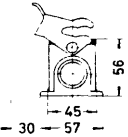

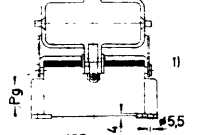
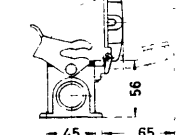

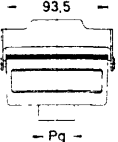
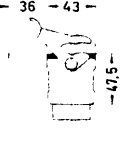
Standard Hoods/Housings with 2 levers on the housing



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	21	
	09 30 016 0541		29		
	Hoods top-entry		09 30 016 1440	21	
			09 30 016 0440	21	
		09 30 016 0441	29		
Housings bulkhead mounting			09 30 016 0307	—	Panel cut out 82 x 35
	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 09 30 016 1255	21		
		2 side-entry 09 30 016 1295	21		
		with metal cover 09 30 016 2295	21		
Hoods cable to cable		09 30 016 1750	21		

¹⁾ Blind way for one cable entry



Specifications DIN VDE 0627
DIN VDE 0110

Approvals UL / CSA

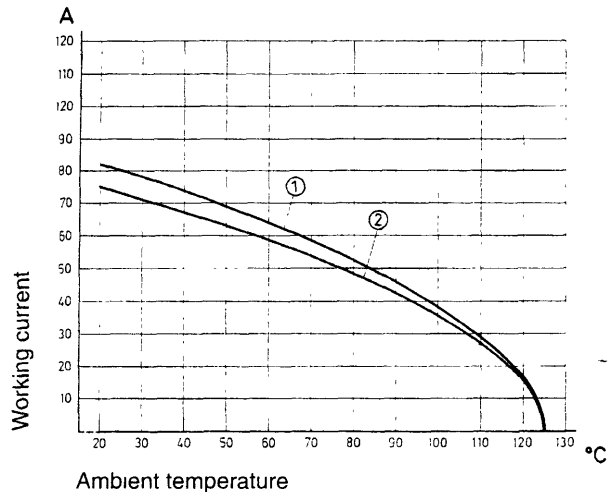
Inserts
 Number of contacts 4 / 8 + PE
 Working current 80 A / 16 A
 Working voltage 400 V / 400 V
 Pollution degree 3 (C)
 Test voltage U_{eff} 3 kV
 Material Polyamid
 Insulation resistance $\geq 10^{10} \Omega$
 Temperature range - 40 °C +125 °C
 Flammability acc. to UL 94 HB
 Mechanical working life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

Contacts
 Material copper alloy
 Contact surface hard-silver plated 3 μ m Ag
 Contact resistance $\leq 0.3 \text{ m}\Omega / 1 \text{ m}\Omega$
 Screw terminal
 - mm^2 1.5 - 16 / 0.5 - 2.5 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 IP 65
 acc. to DIN 40 050
 for coupled connector
 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.



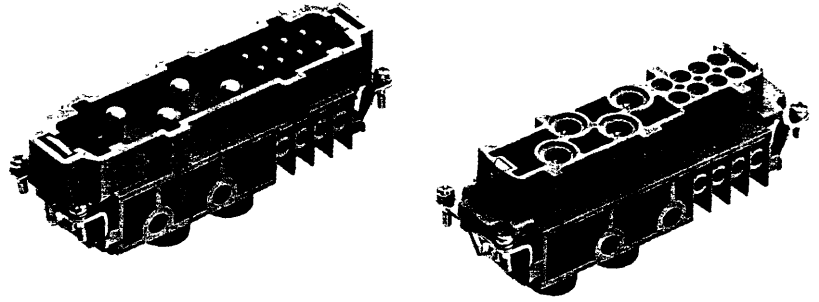
- ① Wire gauge: 16 mm^2
- ② Wire gauge: 10 mm^2

Han K 4/8



Number of contacts

4/8 +

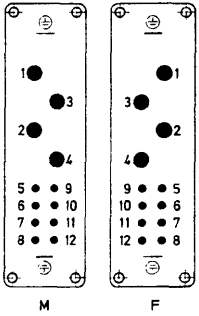


Inserts

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		

¹⁾ Distance for contact max. 21 mm

Contact arrangement View from termination side



Specifications DIN VDE 0627
DIN VDE 0110

Approvals UL / CSA

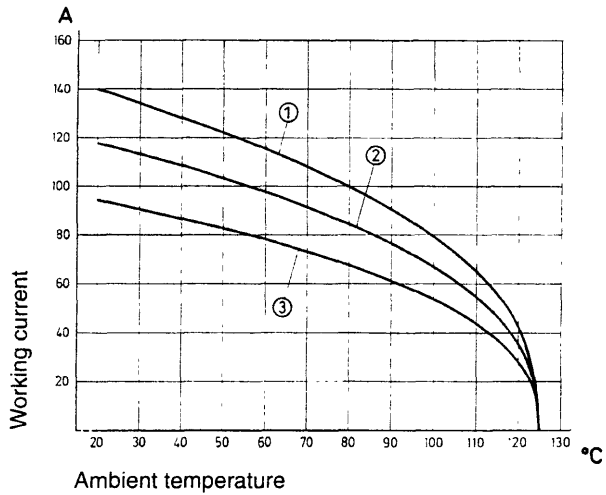
Current carrying capacity

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 / 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 ≥ 500



Contacts

Material copper alloy
Contact surface hard-silver plated 3 μ m Ag
Contact resistance $\leq 0.5 \text{ m}\Omega / 3 \text{ m}\Omega$
Screw terminal
- mm² 16 - 35 / 0.2 - 2.5 mm²
- AWG 5 - 2 / 24 - 13
- Tightening / test torque 5-6 Nm / 0.8 Nm

- ① Wire gauge: 35 mm²
- ② Wire gauge: 25 mm²
- ③ Wire gauge: 16 mm²

Hoods/Housings

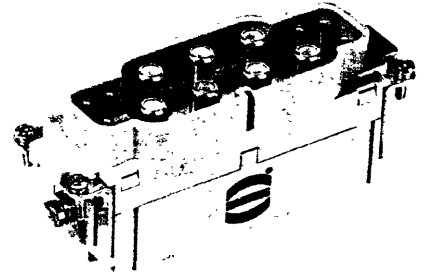
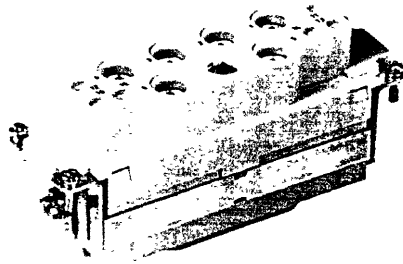
Material GD-Al Si 8
Surface powder-coated
Locking element steel, galvanized
Hoods/Housings sealing NBR
Temperature range - 40 °C +125 °C
Degree of protection acc. to DIN 40 050 IP 65
for coupled connector
Material of covers
- Plastic Polyamid 6
- Die cast metal GD-Al Si 8

Han K 6/6



Number of contacts

6/6 +



Inserts

Identification

Screw terminal

Series

Han K

6/6

Part No.

Male insert (M)

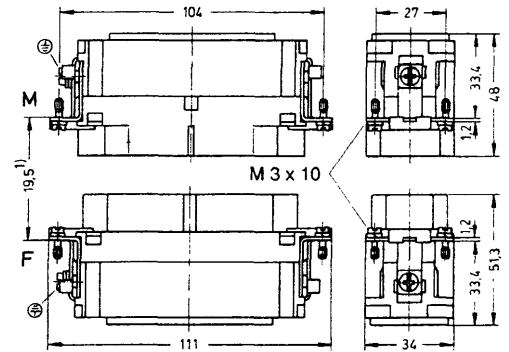
Female insert (F)

Drawing

Dimensions in mm

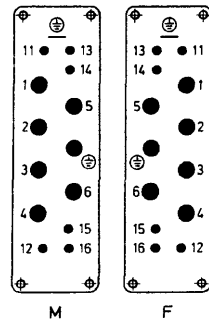
09 38 012 2651

09 38 012 2751



¹⁾ Distance for guaranteed contact max. 21 mm

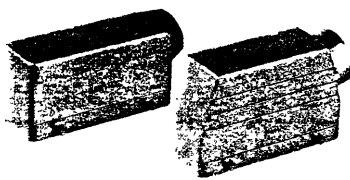
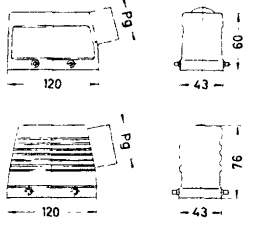

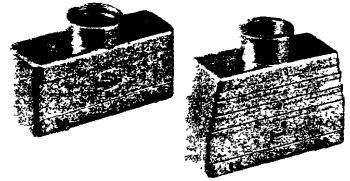
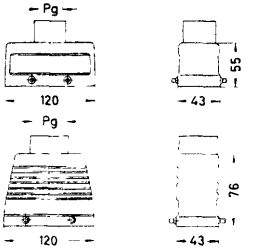
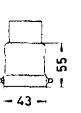

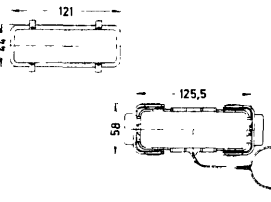
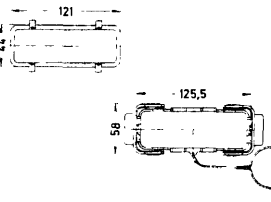
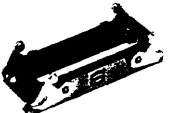
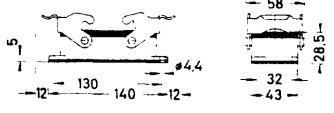
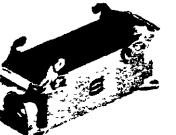
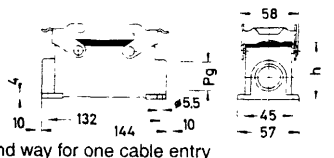

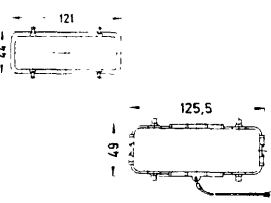
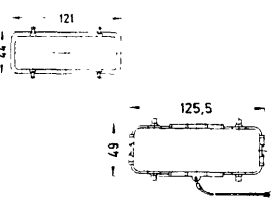
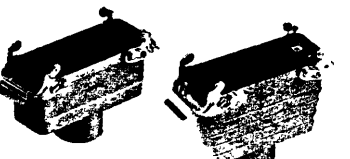
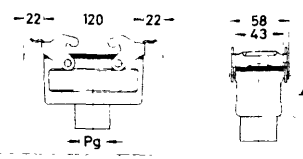
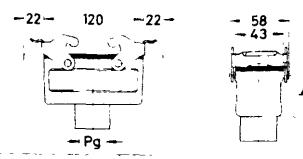

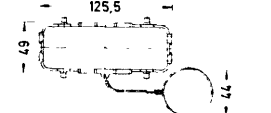
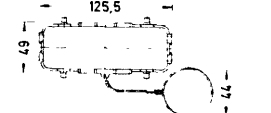
Contact arrangement View from termination side



Termination details
see page 05.30

Standard Hoods/Housings with 2 levers on the housing



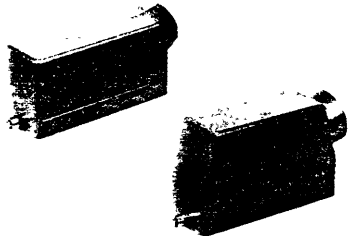
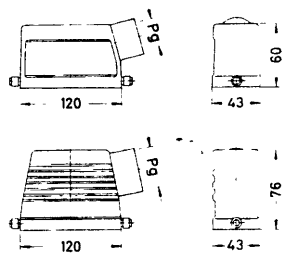
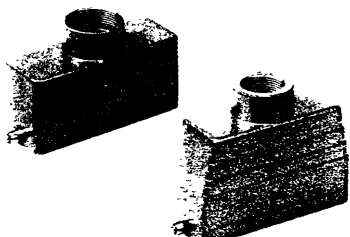
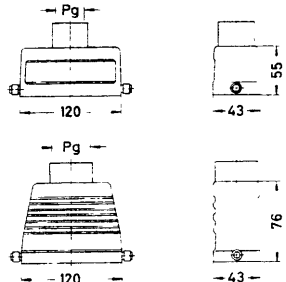
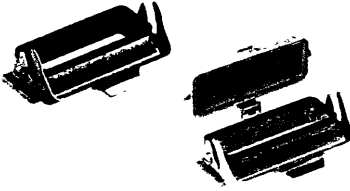
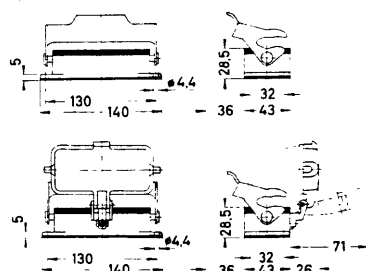
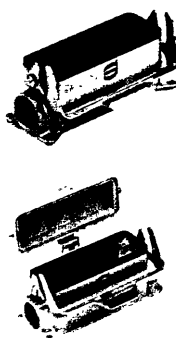
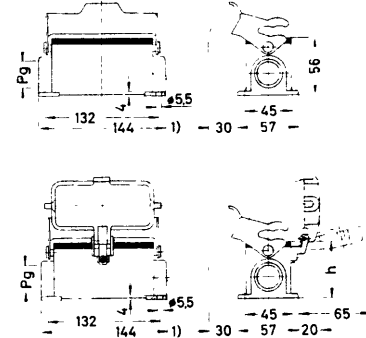

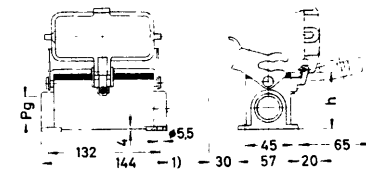

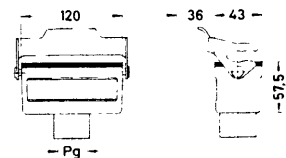
Identification	Part No.		Pg	Drawing	Dimensions in mm
	Low construction	High construction			
Hoods side-entry		09 30 024 1520	21		
		09 30 024 0520 09 30 024 0521	21 29		
Hoods top-entry		09 30 024 1421	29		
		09 30 024 0420 09 30 024 0421	21 29		
Protection covers metal		09 30 024 5401			
		09 30 024 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	21 29		
Protection covers metal		09 30 024 5426			

05
28

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

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		
		2 side-entry 09 30 024 1295	21 29		
Hoods cable to cable		09 30 024 1751	29		

" Blind way for one cable entry

	h
Low construction	56
High construction	80

Description

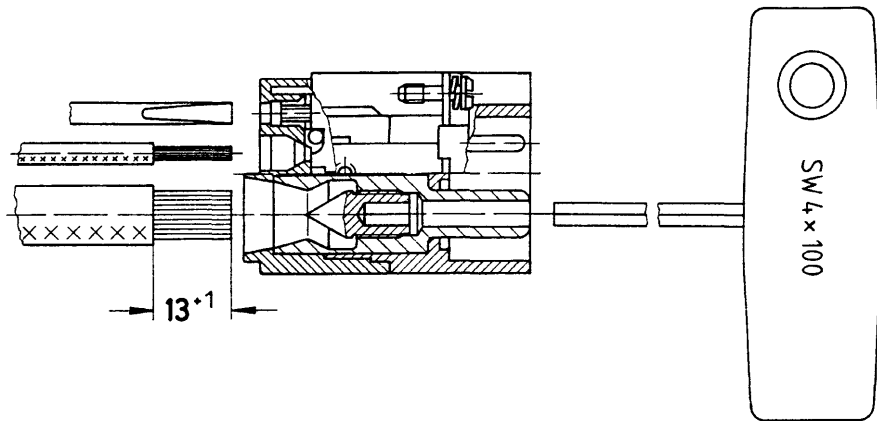
Drawing

Dimensions in mm

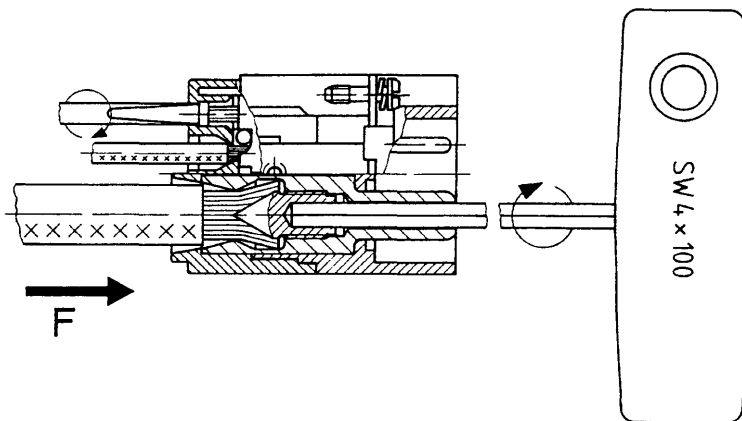
Note:

The signal contacts are suitable for stranded wire up to 2.5 mm² and the power contacts for stranded wire from 16 to 35 mm².

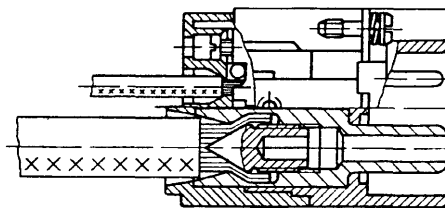
- Strip insulation from stranded wire
10 mm for signal contacts
13 mm for power contacts.
Insert stranded wire into contact chamber until insulation is flush with contact.



- 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.



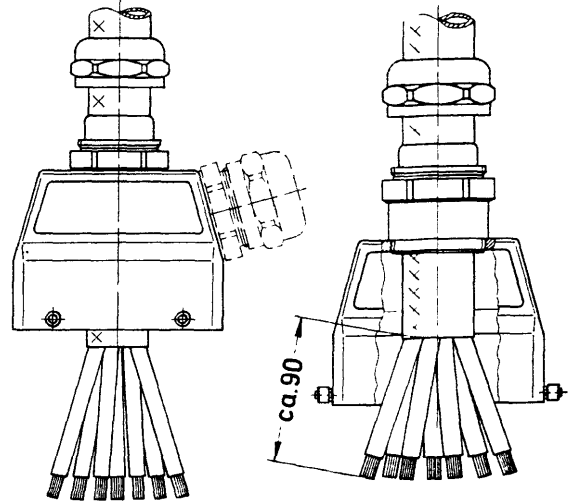
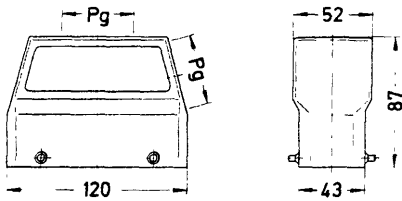
The male insert is shown. The same method is applicable for female inserts.

Drawing	Dimensions in mm	Part No.	Pg
Hoods 2 locking levers			
side-entry		09 30 024 0525	36
top-entry		09 30 024 0425	36

Assembly details

Wire gauge 25 mm²

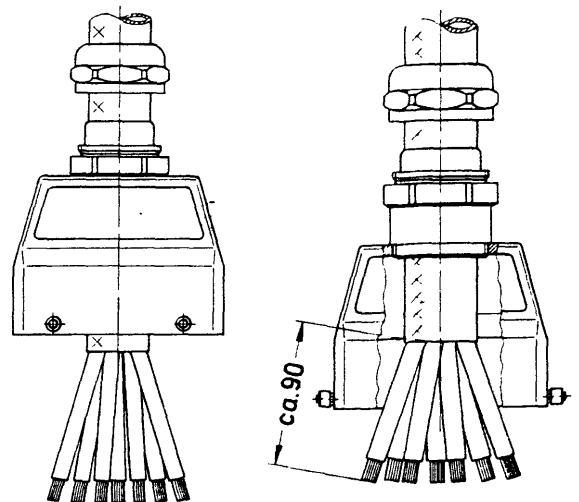
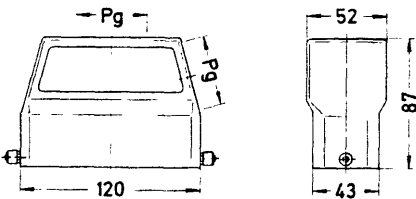
1. Screw universal cable protection into the hood.
2. Insert cable through the open cable entry protection into the hood.
3. Remove cable sheathing (approx. 90 mm) and strip wire.
4. Connect wires to insert according to the assembly details.
5. Retract cable.
6. Fix insert and tighten cable protection.



Hoods 1 locking lever			
side-entry		09 30 024 0546	36
top-entry		09 30 024 0446	36

Wire gauge 35 mm²

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)


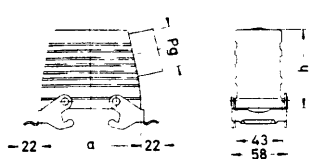
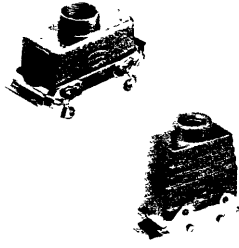
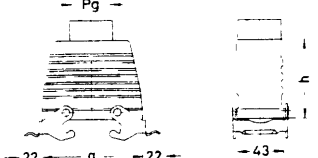

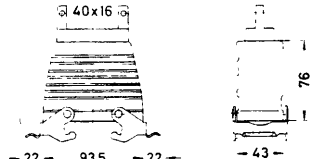

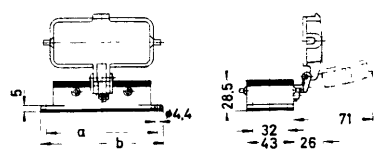
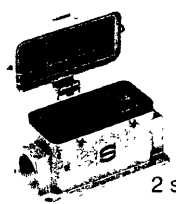
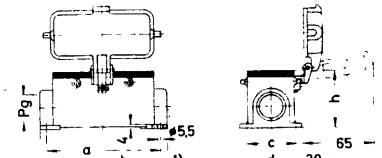
Material	GD-Al Si 12
Surface	effect-lac
Locking element	V 2 A
Hoods/Housings sealing	NBR
Temperature range	- 40 °C +125 °C
Degree of protection acc. to DIN 40 050 for coupled connector	IP 68

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

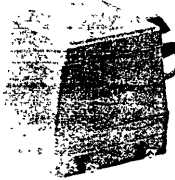
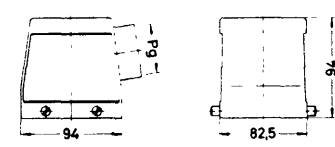

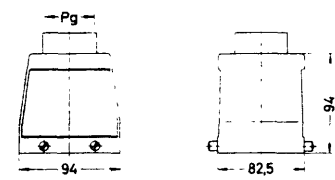

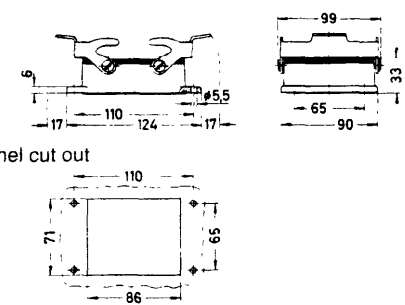
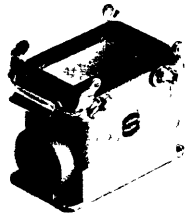
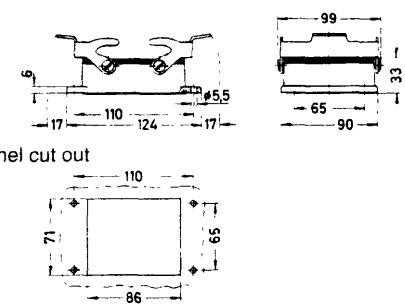
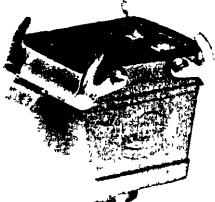
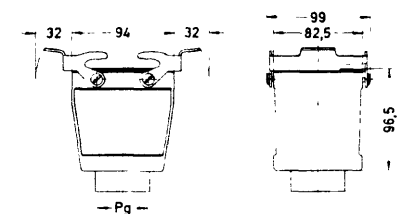
Standard Hoods/Housings with 2 levers on the hood



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																																																																																																															
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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																																																																																																															
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24				21																																																																																																																																	
24				29																																																																																																																																	
10	09 30 016 0260	09 30 016 0261	09 30 016 0260	16																																																																																																																																	
16				21																																																																																																																																	
16				29																																																																																																																																	
24	09 30 024 1260	09 30 024 0260	09 30 024 0261	21																																																																																																																																	
24				29																																																																																																																																	

Standard Housings with 2 levers on the housing



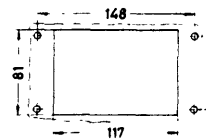
Identification	Size	Part No.	Pg	Drawing	Dimensions in mm	
Hoods side-entry						
	32	09 30 032 0521	29			
	32	09 30 032 0522	36			
	32	09 30 032 0523	42			
Hoods top-entry						
	32	09 30 032 0421	29			
	32	09 30 032 0422	36			
Housings bulkhead mounting						
	32	09 30 032 0301	-			
Housings surface mounting						
	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		
Hoods cable to cable						
	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		
	48	with thermo- plastic cover 09 30 048 0296	36		

Panel cut out



¹⁾ Blind way

Hoods/Housings with central lever



Identification

Hoods side-entry



Size

Part No.

Pg

Drawing

Dimensions in mm

16

09 30 016 0580

21

16

09 30 016 0581

29

24

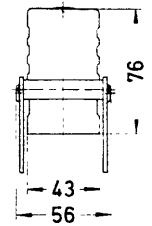
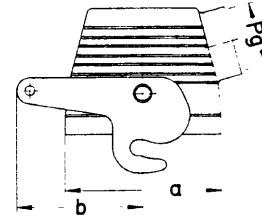
09 30 024 0580

21

24

09 30 024 0581

29



Size	a	b
16	93.5	76
24	120	87

Hoods

Hoods top-entry



16

09 30 016 0480

21

16

09 30 016 0481

29

24

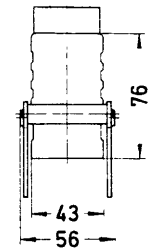
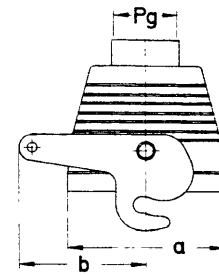
09 30 024 0480

21

24

09 30 024 0481

29



Size	a	b
16	93.5	76
24	120	87

Housings bulkhead mounting

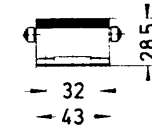
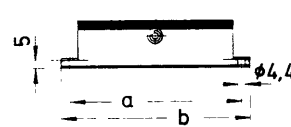


16

09 30 016 0381

24

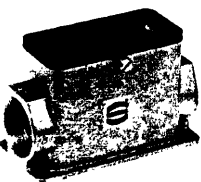
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Size	a	b	panel cut out
16	103	113	82 x 35
24	130	140	108 x 35

Housings

Housings surface mounting



16

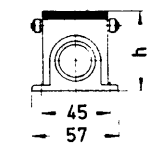
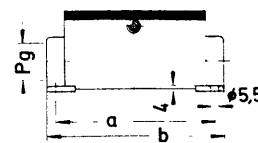
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2 x 29

24

09 30 024 0281

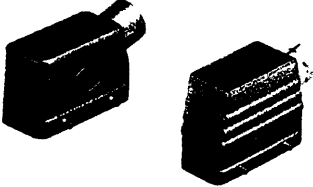
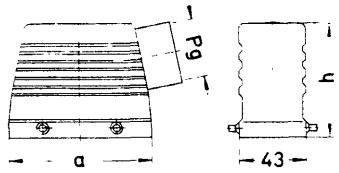
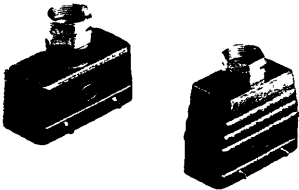
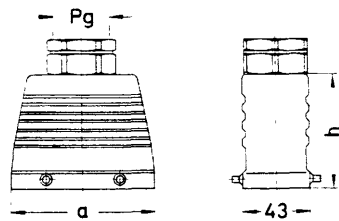

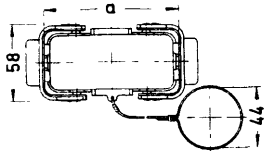
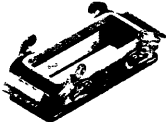
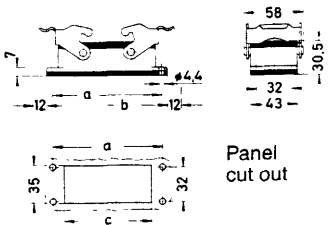
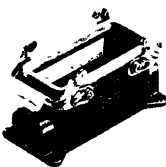
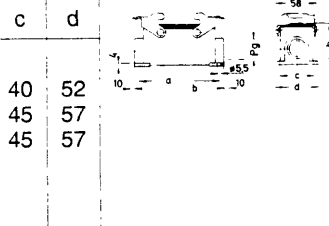

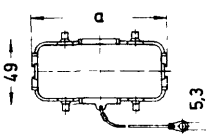

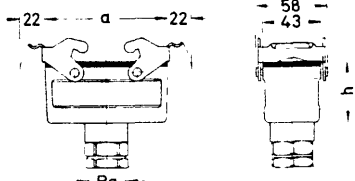
2 x 29



Size	a	b
16	105	117
24	132	144

Hoods/Housings for harsh environmental requirements Han M

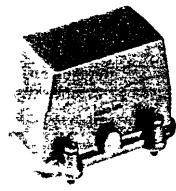
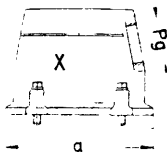
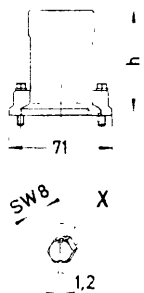
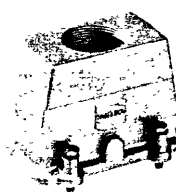
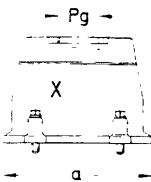
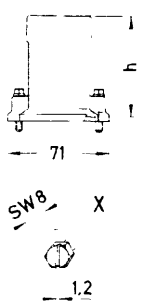
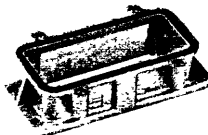
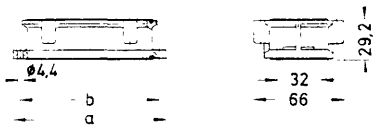
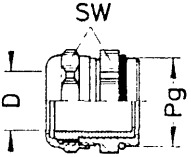
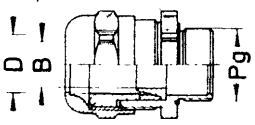


Identification	Size	Part No.	Pg	Drawing	Dimensions in mm																						
Hoods side-entry 	10	09 37 010 1521	16	<table border="1"> <thead> <tr> <th>h</th> <th>a</th> </tr> </thead> <tbody> <tr> <td>52</td> <td>73</td> </tr> <tr> <td>60</td> <td>93.5</td> </tr> <tr> <td>76</td> <td>93.5</td> </tr> <tr> <td>60</td> <td>120</td> </tr> <tr> <td>76</td> <td>120</td> </tr> </tbody> </table>	h	a	52	73	60	93.5	76	93.5	60	120	76	120	09 37 016 1521 09 37 016 0521 09 37 024 1520 09 37 024 0521	21 29 21 29									
	h	a																									
	52	73																									
	60	93.5																									
	76	93.5																									
60	120																										
76	120																										
Hoods top-entry 	10	09 37 010 1421	16	<table border="1"> <thead> <tr> <th>h</th> <th>a</th> </tr> </thead> <tbody> <tr> <td>45</td> <td>73</td> </tr> <tr> <td>76</td> <td>93.5</td> </tr> <tr> <td>76</td> <td>120</td> </tr> </tbody> </table>	h	a	45	73	76	93.5	76	120	09 37 016 0421 09 37 024 0421	29 29													
	h	a																									
	45	73																									
	76	93.5																									
76	120																										
Protection covers metal 	10	09 37 010 5403	-	<table border="1"> <thead> <tr> <th>a</th> </tr> </thead> <tbody> <tr> <td>79</td> </tr> <tr> <td>99.5</td> </tr> <tr> <td>126</td> </tr> </tbody> </table>	a	79	99.5	126	09 37 016 5402 09 37 024 5402	- - -																	
	a																										
	79																										
99.5																											
126																											
Housings bulkhead mounting 	10	09 37 010 0301	-	<table border="1"> <thead> <tr> <th>a</th> <th>b</th> <th>c</th> </tr> </thead> <tbody> <tr> <td>83</td> <td>93</td> <td>60</td> </tr> <tr> <td>103</td> <td>113</td> <td>82</td> </tr> <tr> <td>130</td> <td>140</td> <td>108</td> </tr> </tbody> </table>	a	b	c	83	93	60	103	113	82	130	140	108	09 37 016 0301 09 37 024 0301	- - -									
	a	b	c																								
	83	93	60																								
103	113	82																									
130	140	108																									
Housings surface mounting 	10	09 37 010 1271	2 x 16	<table border="1"> <thead> <tr> <th>h</th> <th>a</th> <th>b</th> <th>c</th> <th>d</th> </tr> </thead> <tbody> <tr> <td>54</td> <td>82</td> <td>94</td> <td>40</td> <td>52</td> </tr> <tr> <td>56</td> <td>105</td> <td>117</td> <td>45</td> <td>57</td> </tr> <tr> <td>80</td> <td>132</td> <td>144</td> <td>45</td> <td>57</td> </tr> </tbody> </table>	h	a	b	c	d	54	82	94	40	52	56	105	117	45	57	80	132	144	45	57	09 37 016 1230 09 37 024 0271	1 x 21 2 x 29	
	h	a	b		c	d																					
	54	82	94		40	52																					
56	105	117	45	57																							
80	132	144	45	57																							
Protection covers metal 	10	09 37 010 5405	-	<table border="1"> <thead> <tr> <th>a</th> </tr> </thead> <tbody> <tr> <td>79</td> </tr> <tr> <td>99.5</td> </tr> <tr> <td>126</td> </tr> </tbody> </table>	a	79	99.5	126	09 37 016 5405 09 37 024 5405	- - -																	
	a																										
	79																										
99.5																											
126																											
Hoods cable to cable 	10	09 37 010 1731	16	<table border="1"> <thead> <tr> <th>h</th> <th>a</th> </tr> </thead> <tbody> <tr> <td>47.5</td> <td>73</td> </tr> <tr> <td>47.5</td> <td>93.5</td> </tr> <tr> <td>57.5</td> <td>120</td> </tr> </tbody> </table>	h	a	47.5	73	47.5	93.5	57.5	120	09 37 016 1730 09 37 024 1731	21 29													
	h	a																									
	47.5	73																									
47.5	93.5																										
57.5	120																										

Hoods/Housings

Pressure tight Han HP
EMC tight Han EMC



Identification	Size	Part No.		Pg	Drawing	Dimensions in mm														
		Han HP	Han EMC																	
Hoods side-entry 	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																	
Hoods top-entry 	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																	
Housings bulkhead mounting 	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	-																	
Universal cable protection metal 		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													
EMC cable protection 		09 00 000 5094		29	40	-	14	18												
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		09 62 000 5009	29	40	21.7	19	23													
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		09 62 000 5010	29	40	23.7	22	26													
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		09 62 000 5011	36	50	26.7	25	30													
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Hoods for special applications



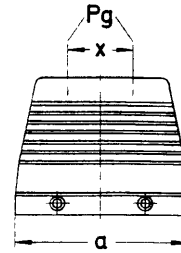
Identification

Hoods top-entry

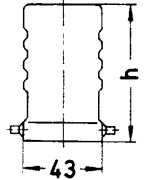


Size	Part No.	Pg
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16	09 30 016 0459	2 x 16
16	09 30 016 0462	2 x 21
24	09 30 024 0462	2 x 21
24	09 30 024 0461	2 x 29

Drawing



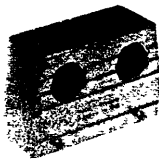
Dimensions in mm



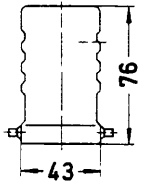
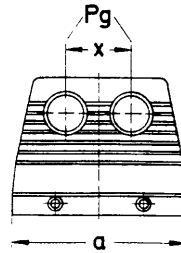
Size	a	h	x	Pg
10	73	72	20	2x13.5
16	93.5	76	36	2x16
16	93.5	76	36	2x21
24	120	76	52	2x21
24	120	76	48	2x29

Hoods side-entry

Hoods

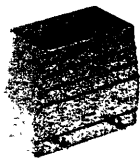


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24	09 30 024 0663	2 x 21

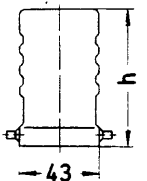
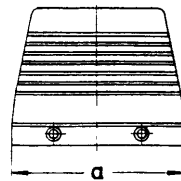


Size	a	x	Pg
16	93.5	36	2 x 21
24	120	56	2 x 21

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

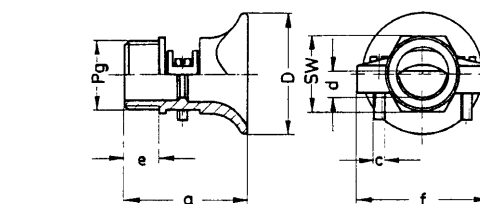
Dimensions in mm

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

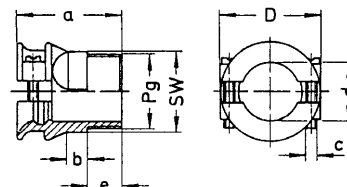
Special cable clamp
metal, with bell-mouth cable fitting and strain relief

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

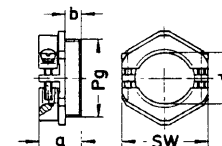
Special cable clamp
brass, with strain relief



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

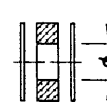
for Standard Hoods/Housings



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

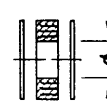
for Standard Hoods/Housings



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



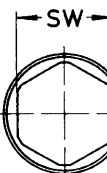
for Hoods/Housings Han M



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

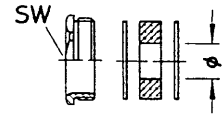
Dimensions in mm

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



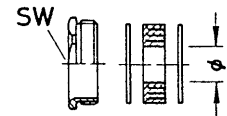
Cable sealing metal
with multiple seal

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

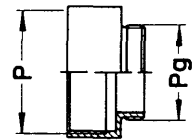
18	7.5	12.5
20	7.5	12.5
22	7.5	15
28	10	19
37	18	27

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

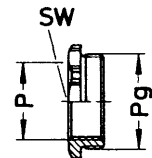


Reducers
metal



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

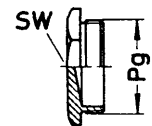


Blanking piece
metal

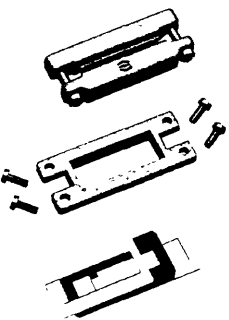


09 00 000 5070	11
09 00 000 5071	13.5
09 00 000 5072	16
09 00 000 5073	21
09 00 000 5074	29
09 00 000 5075	36
09 00 000 5076	42

SW
20
22
24
30
40
50
57



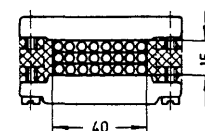
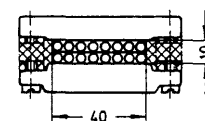
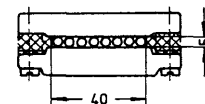
Set of seals
with strain relief clamp



for 1 flat cable
09 00 000 5315

for 2 flat cables
09 00 000 5316

for 3 flat cables
09 00 000 5317



Accessories



Identification

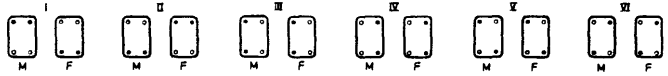
Part No.

Drawing

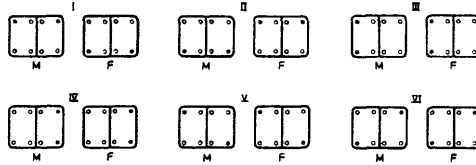
Dimensions in mm

Coding system with code pins

for hoods/housings with one insert

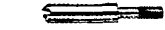


for hoods/housings with two inserts



● Code pins
○ Normal mounting screw

M – Male connector
F – Female connector

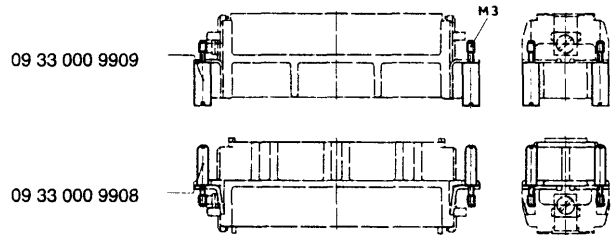


09 30 000 9901¹⁾

¹⁾ 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).



09 33 000 9909

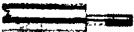
09 33 000 9908¹⁾

09 33 000 9908

Guide pin

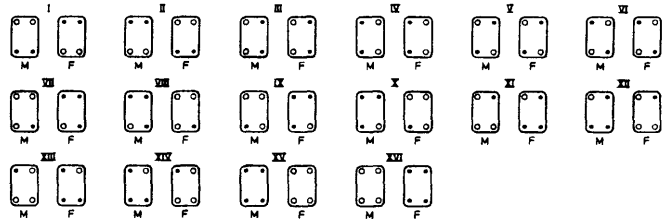


Bush

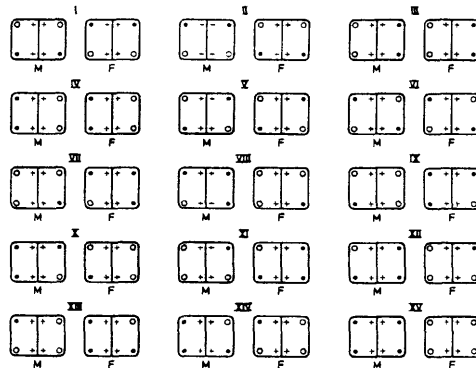


09 33 000 9909¹⁾

for hoods/housings with one insert



for hoods/housings with two inserts



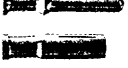


● Guide pin
○ Bush
+ Normal mounting screw

M – Male connector
F – Female connector

¹⁾ Order 4 pieces for one connector

Summary Han Crimping tools











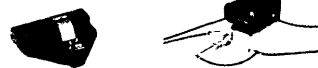
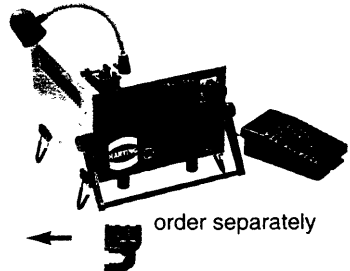






Identification	mm ²	AWG	Part No.							Crimping tool depth adjustment gauge					
Crimp contacts			Crimping tool												
Series			09 99 000 0001	09 99 000 0110	09 99 000 0300	09 99 000 0303	09 99 000 0307	09 99 000 0314	Automatic crimping machine TK	09 99 000 0006	09 99 000 0007	09 99 000 0008	09 99 000 0009	09 99 000 0125	09 99 000 0203
Power contacts Han C 09 32 	1.5	16	x				x	x			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									
Han E	09 99 000 0111		x											
	09 99 000 0310	x					x							
	09 99 000 0302				x									
	09 99 000 0112		x											

*) For wire gauge 0.14 mm² and 0.25 mm² use only male contacts 09 15 000 6107 respectively female contact 09 15 000 6207

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













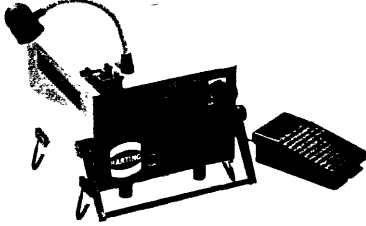




Identification	Part No.	Drawing	Dimensions in mm
HARTING- crimping tool	09 99 000 0110	Wire gauge 0.14 - 1.5 mm ²	 ↑  order separately
Locator	09 99 000 0111		
HARTING- crimping tool	09 99 000 0300	Wire gauge 0.14 - 1.5 mm ²	
Locator as spare part	09 99 000 0301	Locator is supplied with the tool	
BUCHANAN- crimping tool	09 99 000 0001	Wire gauge 0.37 - 2.5 mm ²	 ↑  order separately
Locator	09 99 000 0311		
Crimping tool depth adjustment gauge	09 99 000 0125	Wire gauge 0.37 mm ² ø 1.30	
	09 99 000 0007	0.5-1 + 2.5 mm ² ø 1.55	
	09 99 000 0008	1.5 mm ² 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		 ↑  order separately
Locator	09 99 000 0311		
Crimping tool depth adjustment gauge	09 99 000 0125	Wire gauge 0.37 mm ² ø 1.30	
	09 99 000 0007	0.5-1 + 2.5 mm ² ø 1.55	
	09 99 000 0008	1.5 mm ² ø 1.80	
Table fixing and foot switch for pneumatic crimping tool	09 99 000 0309		
HARTING- semi-automatic crimping device			 ↑  order separately
Main drive foot-operated 220 V/50 Hz	09 99 000 0246		
Crimping head	09 99 000 0254	Wire gauge 0.14 - 1.5 mm ²	
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 mm² 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 ²	
Locator	09 99 000 0112		 order separately
HARTING-crimping tool	09 99 000 0300	Wire gauge 0.5 - 2.5 mm ²	
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 ²	
Locator	09 99 000 0310		 order separately
Crimping tool depth adjustment gauge	09 99 000 0007 09 99 000 0008 09 99 000 0006	Wire gauge 0.5 - 1 mm ² ø 1.55 1.5 - 2.5 mm ² ø 1.80 4 mm ² ø 2.00	 order separately
HARTING-pneumatic crimping tool	09 99 000 0314		
Locator	09 99 000 0310		 order separately
Crimping tool depth adjustment gauge	09 99 000 0007 09 99 000 0008 09 99 000 0006	Wire gauge 0.5 - 1 mm ² ø 1.55 1.5 - 2.5 mm ² ø 1.80 4 mm ² ø 2.00	 order separately
Table fixing and foot switch for pneumatic crimping tool	09 99 000 0309		
HARTING-semi-automatic crimping device	09 99 000 0246	Wire gauge 0.5 - 2.5 mm ²	
Main-drive foot-operated 220 V/50 Hz	09 99 000 0254		 order separately
Crimping head	09 99 000 0112		 order separately
Locator	09 99 000 0059		
Insertion tool for crimp contacts			
Crimp contact removal			
Stripping tool	09 99 000 0159		




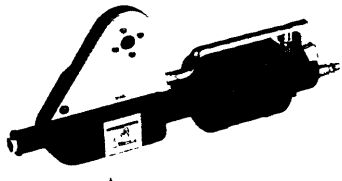

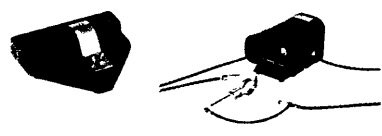

For crimp contacts wires of less than 0.75 mm² it is recommended that an insertion tool is used. Contacts should be inserted from the wiring side and pushed down until a positive locking is achieved.

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.

For wires from 0.5 to 4.0 mm²

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

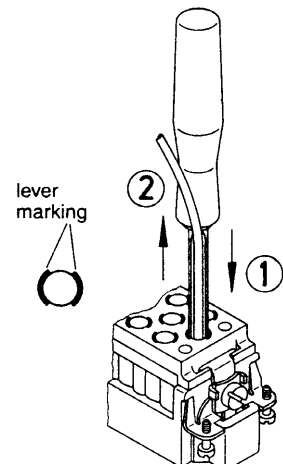


Identification	Part No.	Drawing	Dimensions in mm
BUCHANAN- crimping tool	09 99 000 0001	Wire gauge 1.5 - 4 mm ²	
Locator	09 99 000 0308		
Crimping tool depth adjustment gauge	09 99 000 0008	Wire gauge 1.5 mm ² ø 1.80	
	09 99 000 0007	2.5 mm ² ø 1.55	
	09 99 000 0006	4 mm ² ø 2.00	 order separately
HARTING- crimping tool	09 99 000 0303	Wire gauge 4 - 6 mm ²	
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 ² ø 1.80	
	09 99 000 0007	2.5 mm ² ø 1.55	
	09 99 000 0006	4 mm ² ø 2.00	
	09 99 000 0009	6 mm ² 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
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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
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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

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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
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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*

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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
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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.*
9th 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^o5^a,
E-08029 Barcelona
Tel. 3-4192838, Fax 3-4199585

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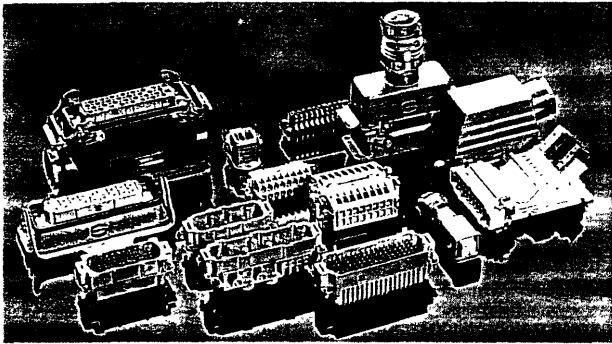
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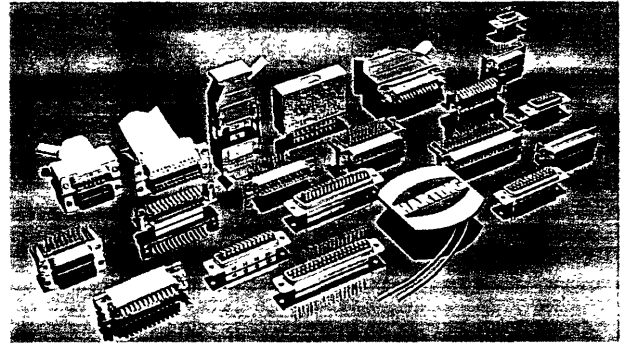
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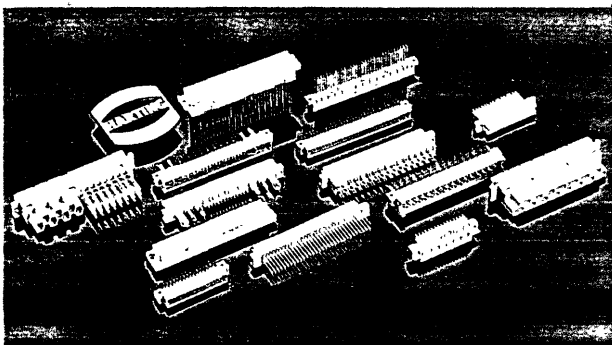
Some of the components from the HARTING range



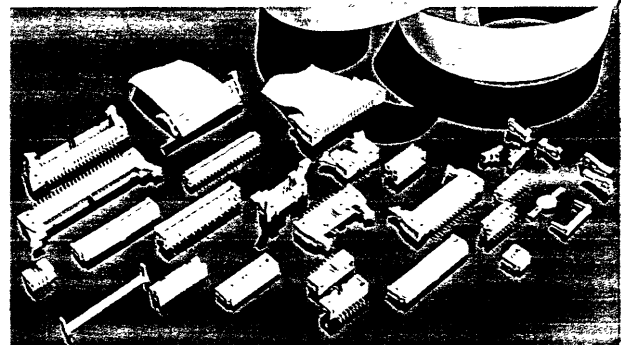
Heavy Duty Connectors
for industrial engineering



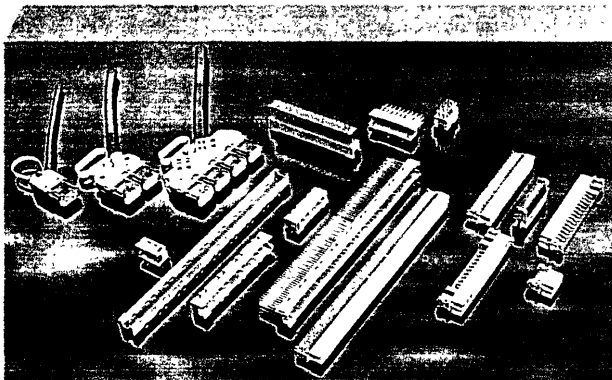
Subminiature D-Connectors
DIN 41 652



Printed Circuit Connectors
DIN 41 612 · DIN 41 617



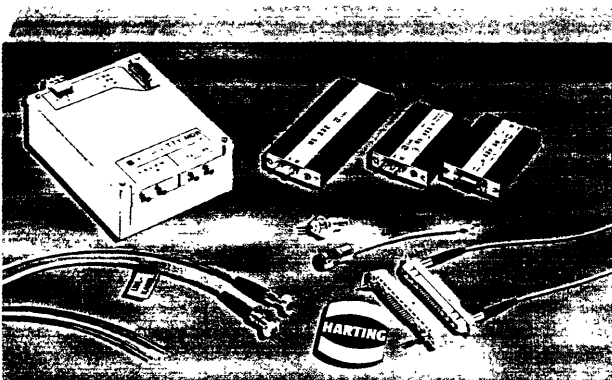
Flat Cable Connector System
DIN 41 651



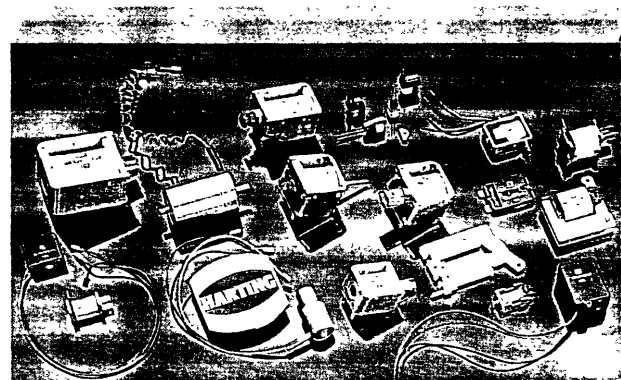
High Density Connector System
Modular · Metric · DIN 41 642



Micro-Electronic-Connectors
Contact spacing 1.27 mm



Fiber Optic Data Link
Systems and components



Solenoids



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