

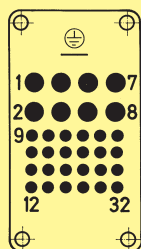
Han-Com®

Page

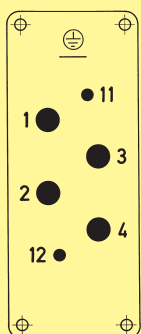
Summary	05.02
Han K 8/24	05.10
Han K 4/0, 4/2	05.14
Han K 6/12	05.16
Han K 6/36	05.18
Han K 12/2 (12 HsC)	05.20
Han K 4/8	05.26
Han K 6/6	05.28
Assembly details for Han K 6/6	05.34

Han
Com

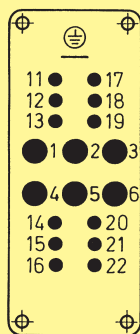
Size Description

B**10**

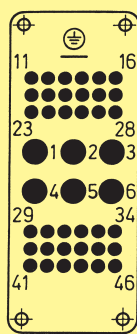
Han K 8/24
400 V / 250 V
16 A / 10 A
 Crimp terminal
 Page 05.10

16

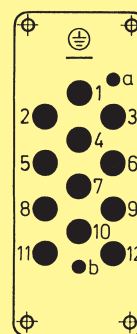
Han K 4/2
690 V / 400 V
80 A / 16 A
 Screw terminal
 Page 05.14



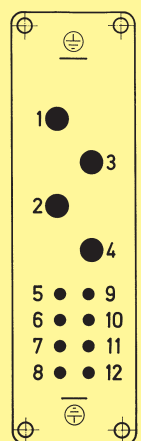
Han K 6/12
690 V / 400 V
40 A / 10 A
 Screw terminal
 Page 05.16



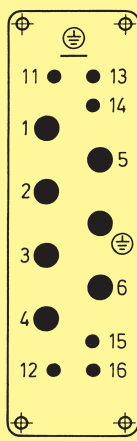
Han K 6/36
690 V / 250 V
40 A / 10 A
 Crimp terminal
 Page 05.18



Han K 12/2
690 V / 250 V
40 A / 10 A
 Crimp terminal
 Page 05.20

24

Han K 4/8
400 V / 400 V
80 A / 16 A
 Screw terminal
 Page 05.26



Han K 6/6
690 V / 400 V
100 A / 16 A
 Screw terminal
 Page 05.28

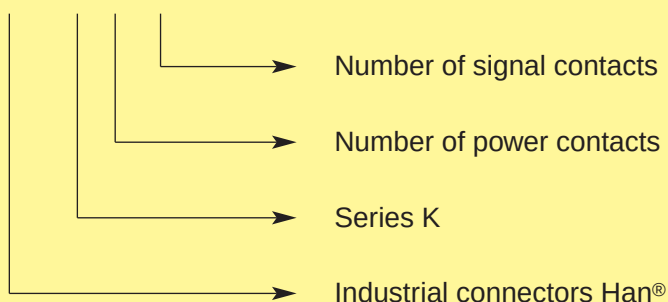
suitable for 2 inserts of size 16 B
 suitable for 2 inserts of size 24 B

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 B, 32 B
4/2	4+PE	80	690	screw	2	16	400	screw	16 B, 32 B
4/8	4+PE	80	400	screw	8	16	400	screw	24 B, 48 B
6/6	6+PE	100	690	screw	6	16	400	screw	24 B, 48 B
6/12	6+PE	40	690	screw	12	10	400	screw	16 B, 32 B
6/36	6+PE	40	690	crimp	36	10	250	crimp	16 B, 32 B
8/24	8+PE	16	400	crimp	24	10	250	crimp	10 B
12/2	12+PE	40	690	crimp	2	10	250	crimp	16 B, 32 B

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 – Contact designations

- The number before the slash denotes the number of power contacts
- The number after the slash denotes the number of signal contacts

Comment for users

For the combination of several circuits in one cable and/or e.g. one connector the following standards are valid

VDE 0100/5.73 § 42 a and VDE 0113/11.73 § 10.1.3

Specifications

DIN VDE 0627
DIN VDE 0110

Approvals



Inserts

Number of contacts	8 / 24 + PE
Working current (see current carrying capacity)	16 A / 10 A
Working voltage	400 V / 250 V
Test voltage U_{rms}	3 kV / 2 kV
Insulation group	C
Insulation resistance	$\geq 10^{10} \Omega$
Material	Polyamide
Temperature range	- 40 °C ... +125 °C
Flammability acc. to UL 94	HB
Mechanical working life - Mating cycles	≥ 500
Working voltage acc. to UL/CSA	600 V / 300 V

Contacts

Material	copper alloy
Surface	
- hard-silver plated	3 μm Ag
- hard-gold plated	2 μm Au over 3 μm Ni
Contact resistance	$\leq 1 \text{ m}\Omega$ / 3 $\text{m}\Omega$
Crimp terminal	
- mm^2	0.5 - 4 mm^2 / 0.14 - 2.5 mm^2
- AWG	20 - 12 / 25 - 14

Hoods/Housings

Material	die cast aluminium
Surface	powder-coated RAL 7037
Locking element	Steel, zinc plated/Han-Easy Lock®
Hoods/Housings sealing	NBR
Temperature range	- 40 °C ... +125 °C
Degree of protection acc. to DIN 40 050 for coupled connector	IP 65
Further selection of hoods/housings	chapter 30

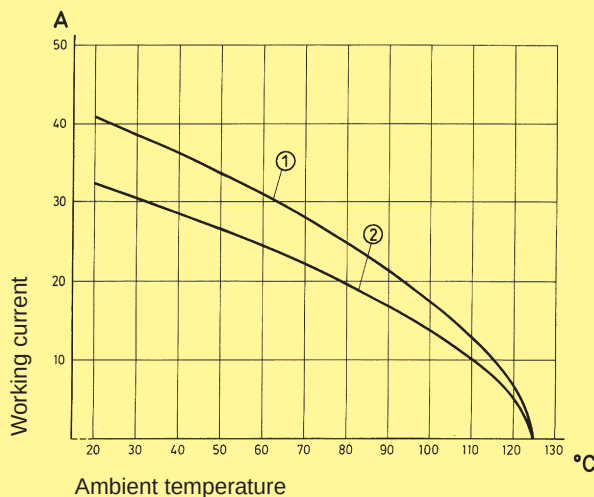
Accessories

Crimping tools	chapter 12
Cable clamps	chapter 40
Coding of Hoods/Housings	chapter 40
Label acc. to CSA-approval	chapter 40
Han-Snap	chapter 11
PCB-adapter	chapter 20

Current carrying capacity

The current carrying capacity is limited by maximum temperature of materials for inserts and contacts including terminals. The current capacity-curve is valid for continuous, not interrupted current-loaded contacts of connectors when simultaneous power on all contacts is given, without exceeding the maximum temperature.

Control and test procedures according to DIN IEC 60 512-3.

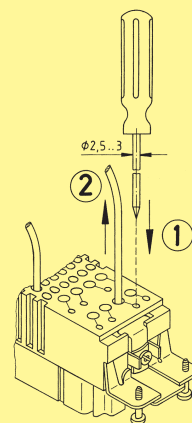


① Wire gauge: 4 mm^2

② Wire gauge: 2.5 mm^2

Removal of Power Contacts
(Han E contacts)

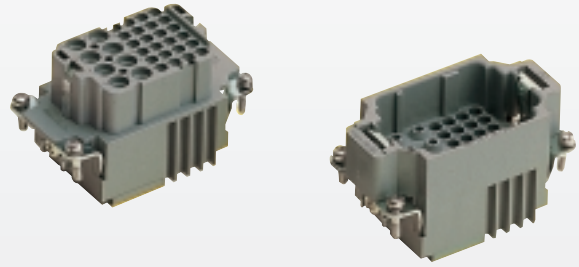
- ① Push cross-slotted screwdriver (size 0 acc. to DIN 5260) in the relevant hole of the contact until it reaches the bottom.
- ② Withdraw the crimped contact from the insert.

Removal of Signal Contacts
(Han D contacts)

Description see removal tool chapter 12

Number of contacts

8/24 +



Inserts

		Part No.		Drawing	Dimensions in mm
Identification	Series	Male insert (M)	Female insert (F)		
Crimp terminal Order crimp contacts separately	Han K			¹⁾ Distance for contact max. 21 mm Contact arrangement View from termination side	
	8/24	09 38 032 3001	09 38 032 3101		
		Part No.		Drawing	Dimension in mm
Identification	Wire gauge (mm ²)	Male contacts	Female contacts		
Crimp contacts Power contacts silver plated gold plated	0.5	09 33 000 6121	09 33 000 6220		
	0.75	09 33 000 6114	09 33 000 6214		
	1.0	09 33 000 6105	09 33 000 6205		
	1.5	09 33 000 6104	09 33 000 6204		
	2.5	09 33 000 6102	09 33 000 6202		
	4.0	09 33 000 6107	09 33 000 6207		
Relay contact silver plated	0.75-1	09 33 000 6109			
	1.5	09 33 000 6110			
	2.5	09 33 000 6111			
Signal contact silver plated gold 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		
	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		
FOC contacts for 1 mm plastic fibre	1.5	09 15 000 6121	09 15 000 6221		
	2.5	09 15 000 6126	09 15 000 6226		

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 the back crimp collar

Wire gauge		Ø	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".

Stock items in bold type

Part No.

Identification

Low construction

High construction

Pg

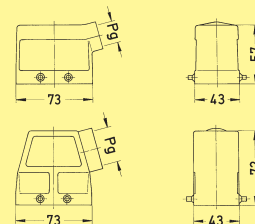
Drawing

Dimensions in mm

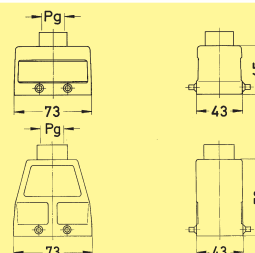
Hoods

Hoods
side-entry**09 30 010 1521**

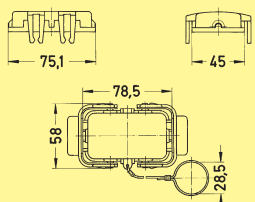
16

Hoods
top-entry**09 30 010 1421**

16

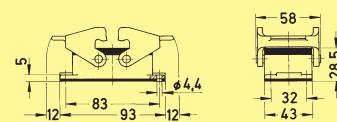
Protection covers
thermoplastic/metal**09 30 010 5401**

16

Housing
bulkhead
mounting**09 30 010 0301**

16

Panel cut out 60 x 35 mm



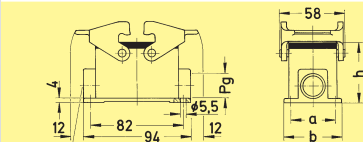
Housings

surface mounting

1 side-entry

**09 30 010 1231**

16



2 side-entries

09 30 010 1271

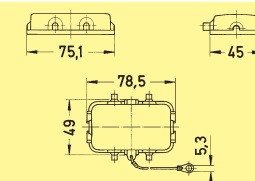
16

Blind way for one cable entry

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

Protection covers
thermoplastic/metal**09 30 010 5407**

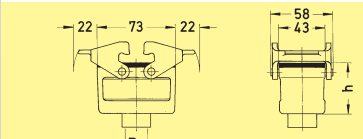
16



Hoods cable to cable

**09 30 010 1731**

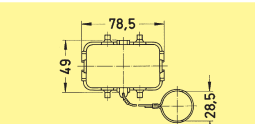
16



	h
Low construction	47.5
High construction	74.5

Protection cover
metal**09 30 010 5427**

16



Stock items in bold type

Identification		Part No.		Pg	Drawing	Dimensions in mm
		Low construction	High construction			
Hoods	Hoods side-entry	09 30 010 1541		16		
			09 30 010 0542	21		
			09 30 010 0543	29		
	Hoods top-entry	09 30 010 1441		16		
			09 30 010 0442	21		
			09 30 010 0443	29		
Housings	Housings bulkhead mounting	09 30 010 0305		—	Panel cut out 60 x 35 mm	
		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-entries 09 30 010 1291	09 30 010 0292 09 30 010 0293	16 21 29		
		1 side-entry 09 30 010 1256	with thermo-plastic cover	16		
		2 side-entries 09 30 010 1296	with thermo-plastic cover	16 21 29		
		09 30 010 2296	with metal cover	16 21		
			with thermo-plastic cover 09 30 010 0297 09 30 010 0298	16 21 29		
			with metal cover 09 30 010 2297	16 21		
	Hoods cable to cable	09 30 010 1751	09 30 010 0752 09 30 010 0753	16 21 29		

Specifications

DIN VDE 0627
DIN VDE 0110

Approvals



Inserts

Number of contacts	4 / 2 + PE
Working current (see current carrying capacity)	80 A / 16 A
Working voltage	690 V / 400 V
Test voltage U_{rms}	4 kV / 3 kV
Insulation group	C
Insulation resistance	$\geq 10^{10} \Omega$
Material	Polycarbonate
Temperature range	- 40 °C ... +125 °C
Flammability acc. to UL 94	V 0
Mechanical working life	
- Mating cycles	≥ 500
Working voltage acc. to UL/CSA	600 V / 300 V

Contacts

Material	copper alloy
Surface	
- hard-silver plated	3 μm Ag
Contact resistance	$\leq 0.3 \text{ m}\Omega$ / 1 $\text{m}\Omega$
Screw terminal	
- mm^2	1.5 - 16 mm^2 / 0.5 - 2.5 mm^2
- AWG	16 - 6 / 20 - 14
- Tightening torque	0.8 Nm / 0.5 Nm

Hoods/Housings

Material	die cast aluminium
Surface	powder-coated RAL 7037
Locking element	Steel, zinc plated/Han-Easy Lock®
Hoods/Housings sealing	NBR
Temperature range	- 40 °C ... +125 °C
Degree of protection acc. to DIN 40 050 for coupled connector	IP 65
Further selection of hoods/housings	chapter 30

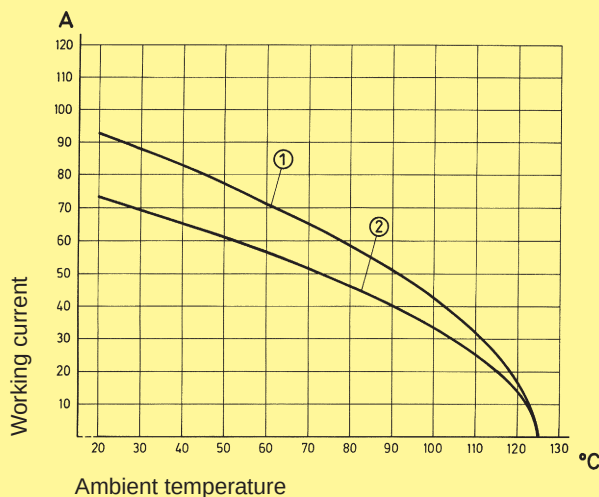
Accessories

Cable clamps	chapter 40
Coding of hoods/housings	chapter 40
Label acc. to CSA-approval	chapter 40
Han-Snap	chapter 11

Current carrying capacity

The current carrying capacity is limited by maximum temperature of materials for inserts and contacts including terminals. The current capacity-curve is valid for continuous, not interrupted current-loaded contacts of connectors when simultaneous power on all contacts is given, without exceeding the maximum temperature.

Control and test procedures according to DIN IEC 60 512-3.

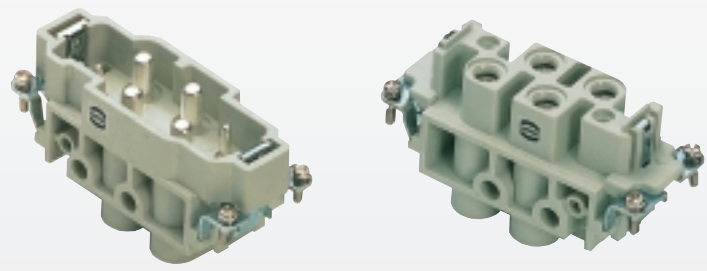


① Wire gauge: 16 mm^2

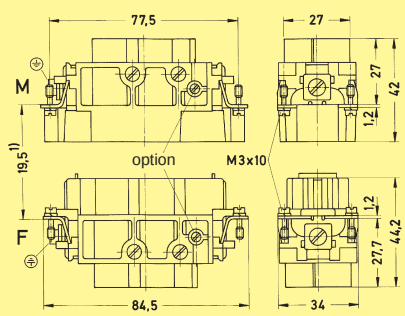
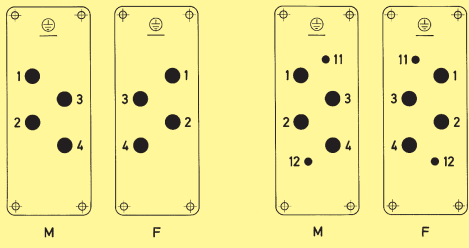
② Wire gauge: 10 mm^2

Number of contacts

4/0, 4/2 + 



Inserts

Part No.					
Identification	Series	Male insert (M)	Female insert (F)	Drawing	Dimensions in mm
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					
					
			Han K 4/0	Han K 4/2	

Han
Com

Specifications

DIN VDE 0627
DIN VDE 0110

Approvals



Inserts

Inserts	6 / 12 + PE
Working current (see current carrying capacity)	40 A / 10 A
Working voltage	690 V / 400 V
Test voltage U_{rms}	3 kV / 2 kV
Insulation group	C
Insulation resistance	$\geq 10^{10} \Omega$
Material	Polycarbonate
Temperature range	- 40 °C ... +125 °C
Flammability acc. to UL 94	V 0
Mechanical working life	
- Mating cycles	≥ 500
Working voltage acc. to UL/CSA	600 V / 300 V

Contacts

Material	copper alloy
Surface	
- hard-silver plated	3 μm Ag
Contact resistance	$\leq 0.5 \text{ m}\Omega$ / 3 m Ω
Screw terminal	
- mm ²	2.5 - 10 mm ² / 0.2 - 2.5 mm ²
- AWG	14 - 8 / 24 - 14
- Tightening torque	1 Nm / 0.8 Nm
Max. insulation	
- Power contacts	$\varnothing = 5 \text{ mm}$

Hoods/Housings

Material	die cast aluminium
Surface	powder-coated RAL 7037
Locking element	Steel, zinc plated/Han-Easy Lock®
Hoods/Housings sealing	NBR
Temperature range	- 40 °C ... +125 °C
Degree of protection acc. to DIN	
40 050 for coupled connector	IP 65
Further selection of hoods/housings	chapter 30

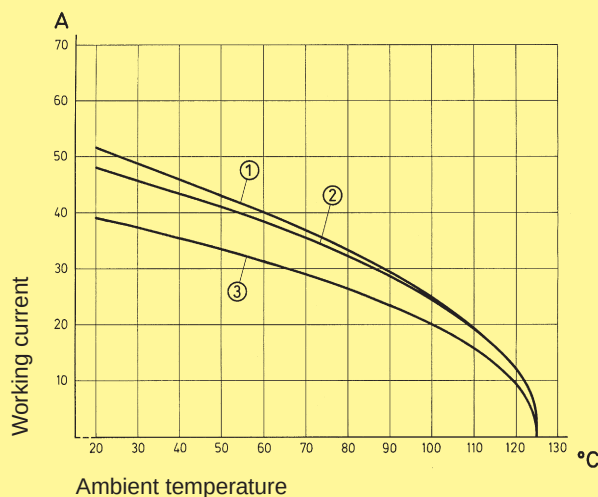
Accessories

Cable clamps	chapter 40
Coding of hoods/housings	chapter 40
Label acc. to CSA-approval	chapter 40
Han-Snap	chapter 11

Current carrying capacity

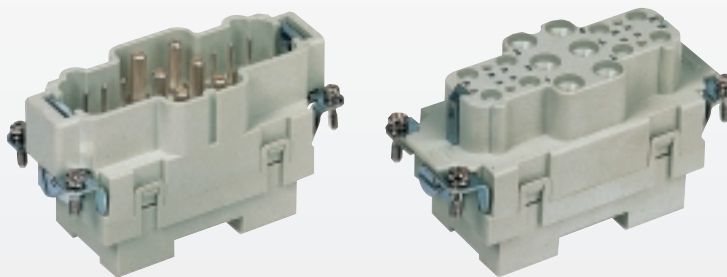
The current carrying capacity is limited by maximum temperature of materials for inserts and contacts including terminals. The current capacity-curve is valid for continuous, not interrupted current-loaded contacts of connectors when simultaneous power on all contacts is given, without exceeding the maximum temperature.

Control and test procedures according to DIN IEC 60 512-3.



Number of contacts

6/12 +



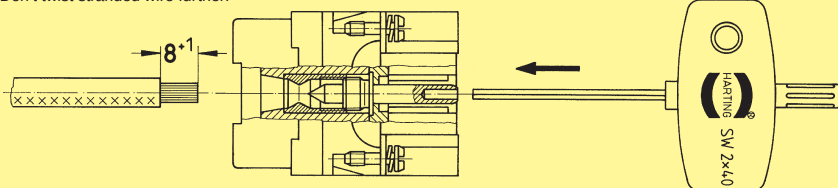
Inserts

Part No.					
Identification	Series	Male insert (M)	Female insert (F)	Drawing	Dimensions in mm
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 of the lock nut, hold stranded wire in position.

Tightening torque: 1 Nm max.

Specifications

DIN VDE 0627
DIN VDE 0110

Approvals



Inserts

Number of contacts	6 / 36 + PE
Working current (see current carrying capacity)	40 A / 10 A
Working voltage	690 V / 250 V
Test voltage U_{rms}	3 kV / 2 kV
Insulation group	C
Insulation resistance	$\geq 10^{10} \Omega$
Material	Polycarbonate
Temperature range	- 40 °C ... +125 °C
Flammability acc. to UL 94	V 0
Mechanical working life	
- Mating cycles	≥ 500
Working voltage acc. to UL/CSA	600 V / 300 V

Contacts

Material	copper alloy
Surface	
- hard-silver plated	3 μm Ag
- hard-gold plated	2 μm Au over 3 μm Ni
Contact resistance	$\leq 0.3 \text{ m}\Omega$ / 3 $\text{m}\Omega$
Crimp terminal	
- mm^2	1.5 - 6 mm^2 / 0.14 - 2.5 mm^2
- AWG	16 - 10 / 26 - 14
Max. insulation	
- Power contacts	$\varnothing = 5 \text{ mm}$

Hoods/Housings

Material	die cast aluminium
Surface	powder-coated RAL 7037
Locking element	Steel, zinc plated/Han-Easy Lock®
Hoods/Housings sealing	NBR
Temperature range	- 40 °C ... +125 °C
Degree of protection acc. to DIN 40 050 for coupled connector	IP 65
Further selection of hoods/housings	chapter 30

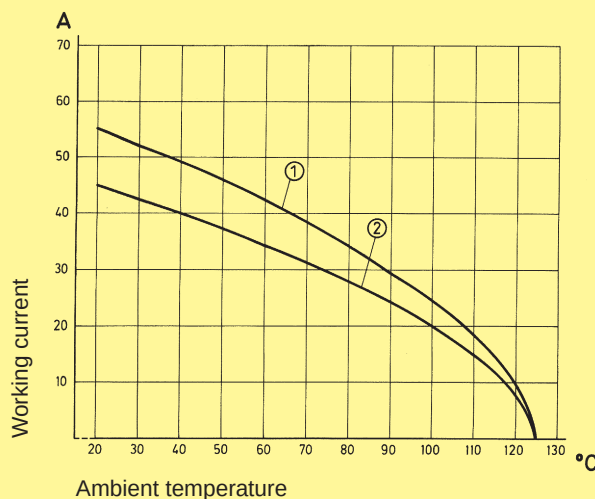
Accessories

Crimping tools	chapter 12
Cable clamps	chapter 40
Coding of Hoods/Housings	chapter 40
Label acc. to CSA-approval	chapter 40
Han-Snap	chapter 11
PCB-Adapter	chapter 20

Current carrying capacity

The current carrying capacity is limited by maximum temperature of materials for inserts and contacts including terminals. The current capacity-curve is valid for continuous, not interrupted current-loaded contacts of connectors when simultaneous power on all contacts is given, without exceeding the maximum temperature.

Control and test procedures according to DIN IEC 60 512-3.



① Wire gauge: 6 mm^2

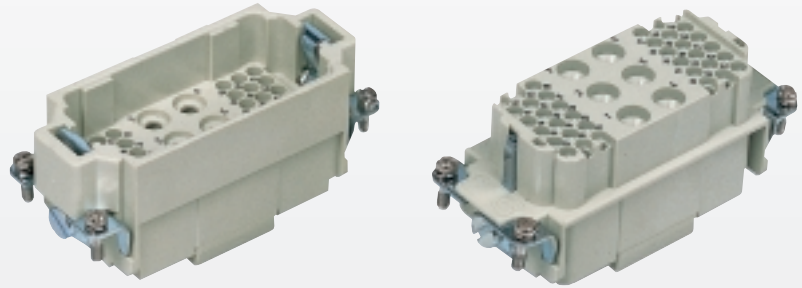
② Wire gauge: 4 mm^2

Removal of Power Contacts
(Han C contacts)

Description see removal tool chapter 12

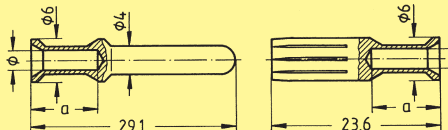
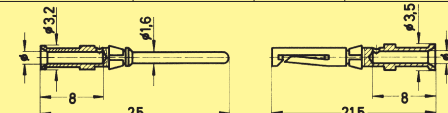
Number of contacts

6/36 +



Inserts

		Part No.		Drawing	Dimensions in mm
Identification	Series	Male insert (M)	Female insert (F)		
Crimp terminal Order crimp contacts separately	Han K				
	6/36	09 38 042 3001	09 38 042 3101		
				¹⁾ Distance for contact max. 21 mm	
				Contact arrangement View from termination side 	

		Wire gauge	Part No.		Drawing	Dimensions in mm																												
Identification		(mm²)	Male contacts	Female contacts																														
Crimp contacts																																		
Power contacts																																		
silver plated		1.5	09 32 000 6104	09 32 000 6204		<table><tr><th colspan="2">Wire gauge</th><th>ø</th><th>Stripping length</th></tr><tr><td>1.5 mm²</td><td>AWG 16</td><td>1.75 mm</td><td>9 mm</td></tr><tr><td>2.5 mm²</td><td>AWG 14</td><td>2.25 mm</td><td>9 mm</td></tr><tr><td>4.0 mm²</td><td>AWG 12</td><td>2.85 mm</td><td>9.5 mm</td></tr><tr><td>6.0 mm²</td><td>AWG 10</td><td>3.5 mm</td><td>9.5 mm</td></tr></table>	Wire gauge		ø	Stripping length	1.5 mm²	AWG 16	1.75 mm	9 mm	2.5 mm²	AWG 14	2.25 mm	9 mm	4.0 mm²	AWG 12	2.85 mm	9.5 mm	6.0 mm²	AWG 10	3.5 mm	9.5 mm								
	Wire gauge		ø	Stripping length																														
	1.5 mm²	AWG 16	1.75 mm	9 mm																														
	2.5 mm²	AWG 14	2.25 mm	9 mm																														
4.0 mm²	AWG 12	2.85 mm	9.5 mm																															
6.0 mm²	AWG 10	3.5 mm	9.5 mm																															
plated		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		<table><tr><th colspan="2">Wire gauge</th><th>ø</th><th>Stripping length</th></tr><tr><td>0.14-0.37 mm²</td><td>AWG 26-22</td><td>0.90 mm</td><td>8 mm</td></tr><tr><td>0.5 mm²</td><td>AWG 20</td><td>1.10 mm</td><td>8 mm</td></tr><tr><td>0.75 mm²</td><td>AWG 18</td><td>1.30 mm</td><td>8 mm</td></tr><tr><td>1.0 mm²</td><td>AWG 18</td><td>1.45 mm</td><td>8 mm</td></tr><tr><td>1.5 mm²</td><td>AWG 16</td><td>1.75 mm</td><td>8 mm</td></tr><tr><td>2.5 mm²</td><td>AWG 14</td><td>2.25 mm</td><td>6 mm</td></tr></table>	Wire gauge		ø	Stripping length	0.14-0.37 mm²	AWG 26-22	0.90 mm	8 mm	0.5 mm²	AWG 20	1.10 mm	8 mm	0.75 mm²	AWG 18	1.30 mm	8 mm	1.0 mm²	AWG 18	1.45 mm	8 mm	1.5 mm²	AWG 16	1.75 mm	8 mm	2.5 mm²	AWG 14	2.25 mm	6 mm
	Wire gauge		ø	Stripping length																														
	0.14-0.37 mm²	AWG 26-22	0.90 mm	8 mm																														
	0.5 mm²	AWG 20	1.10 mm	8 mm																														
	0.75 mm²	AWG 18	1.30 mm	8 mm																														
	1.0 mm²	AWG 18	1.45 mm	8 mm																														
1.5 mm²	AWG 16	1.75 mm	8 mm																															
2.5 mm²	AWG 14	2.25 mm	6 mm																															
		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"																													

Specifications

DIN VDE 0627
DIN VDE 0110

Approvals



Inserts

Number of contacts	12 / 2 + PE
Working current (see current carrying capacity)	40 A / 10 A
Working voltage	690 V / 250 V
Test voltage U_{rms}	3 kV / 2 kV
Insulation group	C
Insulation resistance	$\geq 10^{10} \Omega$
Material	Polycarbonate
Temperature range	- 40 °C ... +125 °C
Flammability acc. to UL 94	V 0
Mechanical working life	
- Mating cycles	≥ 500
Working voltage acc. to UL/CSA	600 V / 300 V

Contacts

Material	copper alloy
Surface	
- hard-silver plated	3 μm Ag
- hard-gold plated	2 μm Au over 3 μm Ni
Contact resistance	$\leq 0.3 \text{ m}\Omega$ / 3 $\text{m}\Omega$
Crimp terminal	
- mm^2	1.5 - 6 mm^2 / 0.14 - 2.5 mm^2
- AWG	16 - 10 / 26 - 14

Hoods/Housings

Material	die cast aluminium
Surface	powder-coated RAL 7037
Locking element	Steel, zinc plated/Han-Easy Lock®
Hoods/Housings sealing	NBR
Temperature range	- 40 °C ... +125 °C
Degree of protection acc. to DIN 40 050 for coupled connector	IP 65
Further selection of hoods/housings	chapter 30

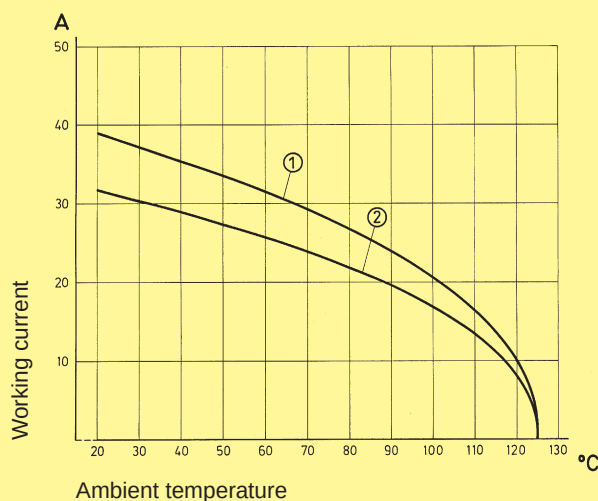
Accessories

Crimping tools	chapter 12
Cable clamps	chapter 40
Coding of hoods/housings	chapter 40
Label acc. to CSA-approval	chapter 40
Han-Snap	chapter 11

Current carrying capacity

The current carrying capacity is limited by maximum temperature of materials for inserts and contacts including terminals. The current capacity-curve is valid for continuous, not interrupted current-loaded contacts of connectors when simultaneous power on all contacts is given, without exceeding the maximum temperature.

Control and test procedures according to DIN IEC 60 512-3.



① Wire gauge: 6 mm^2

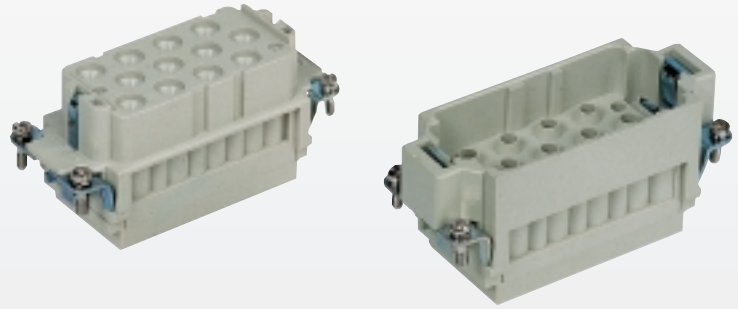
② Wire gauge: 4 mm^2

Removal of Power Contacts
(Han C contacts)

Description see removal tool chapter 12

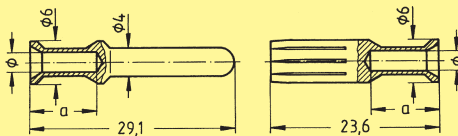
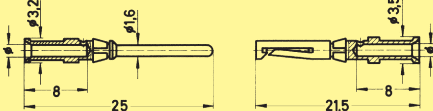
Number of contacts

12/2 +



Inserts

		Part No.		Drawing	Dimensions in mm
Identification	Series	Male insert (M)	Female insert (F)		
Crimp terminal Order crimp 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	

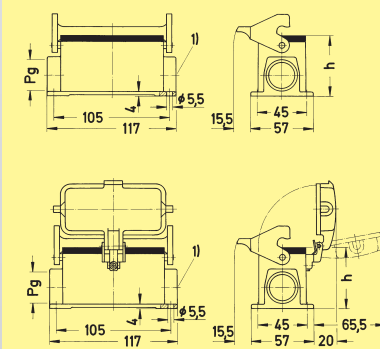
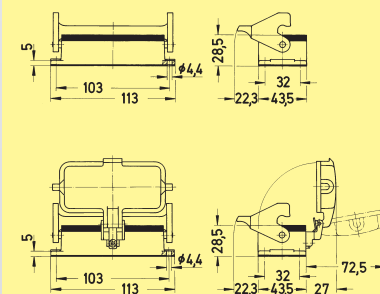
		Wire gauge	Part No.		Drawing	Dimensions in mm																												
Identification		(mm ²)	Male contacts	Female contacts																														
Crimp contacts																																		
Power contacts																																		
silver plated		1.5	09 32 000 6104	09 32 000 6204		<table><tr><th colspan="2">Wire gauge</th><th>ø</th><th>Stripping length</th></tr><tr><td>1.5 mm²</td><td>AWG 16</td><td>1.75 mm</td><td>9 mm</td></tr><tr><td>2.5 mm²</td><td>AWG 14</td><td>2.25 mm</td><td>9 mm</td></tr><tr><td>4.0 mm²</td><td>AWG 12</td><td>2.85 mm</td><td>9.5 mm</td></tr><tr><td>6.0 mm²</td><td>AWG 10</td><td>3.5 mm</td><td>9.5 mm</td></tr></table>	Wire gauge		ø	Stripping length	1.5 mm ²	AWG 16	1.75 mm	9 mm	2.5 mm ²	AWG 14	2.25 mm	9 mm	4.0 mm ²	AWG 12	2.85 mm	9.5 mm	6.0 mm ²	AWG 10	3.5 mm	9.5 mm								
	Wire gauge		ø	Stripping length																														
	1.5 mm ²	AWG 16	1.75 mm	9 mm																														
	2.5 mm ²	AWG 14	2.25 mm	9 mm																														
4.0 mm ²	AWG 12	2.85 mm	9.5 mm																															
6.0 mm ²	AWG 10	3.5 mm	9.5 mm																															
plated		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		0.14-0.37	09 15 000 6104	09 15 000 6204																														
silver plated		0.5	09 15 000 6103	09 15 000 6203		<table><tr><th colspan="2">Wire gauge</th><th>ø</th><th>Stripping length</th></tr><tr><td>0.14-0.37 mm²</td><td>AWG 26-22</td><td>0.90 mm</td><td>8 mm</td></tr><tr><td>0.5 mm²</td><td>AWG 20</td><td>1.10 mm</td><td>8 mm</td></tr><tr><td>0.75 mm²</td><td>AWG 18</td><td>1.30 mm</td><td>8 mm</td></tr><tr><td>1.0 mm²</td><td>AWG 18</td><td>1.45 mm</td><td>8 mm</td></tr><tr><td>1.5 mm²</td><td>AWG 16</td><td>1.75 mm</td><td>8 mm</td></tr><tr><td>2.5 mm²</td><td>AWG 14</td><td>2.25 mm</td><td>6 mm</td></tr></table>	Wire gauge		ø	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
	Wire gauge		ø	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																															
	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"																													

Stock items in bold type

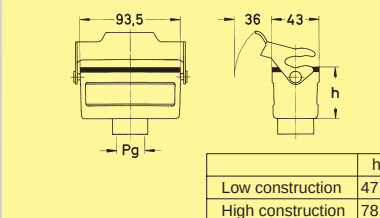
		Part No.									
Identification		Low construction	High construction	Pg	Drawing	Dimensions in mm					
Hoods	Hoods side-entry	09 30 016 1520	09 30 016 0520 09 30 016 0521	21 21 29							
	Hoods top-entry	09 30 016 1420	09 30 016 0420 09 30 016 0421	21 21 29							
	Protection covers thermoplastic/metal	09 30 016 5401 09 30 016 5422									
Housings	Housing bulkhead mounting	09 30 016 0301		—	Panel cut out 82 x 35 mm 						
	Housings surface mounting 1 side-entry	09 30 016 1230	09 30 016 0230 09 30 016 0231	21 29							
	2 side-entries	09 30 016 1270	09 30 016 0270 09 30 016 0271	21 29	Blind way for one cable entry <table border="1"><thead><tr><th></th><th>h</th></tr></thead><tbody><tr><td>Low construction</td><td>56</td></tr><tr><td>High construction</td><td>81</td></tr></tbody></table>		h	Low construction	56	High construction	81
		h									
	Low construction	56									
High construction	81										
Protection covers thermoplastic/metal	09 30 016 5405 09 30 016 5425										
Hoods cable to cable	09 30 016 1730	09 30 016 0730 09 30 016 0731	21 29								
	Protection cover metal	09 30 016 5426									

Identification		Part No.		Pg	Drawing	Dimensions in mm
		Low construction	High construction			
Hoods	Hoods side-entry	09 30 016 1540		21		
			09 30 016 0540 09 30 016 0541	21 29		
	Hoods top-entry	09 30 016 1440		21		
			09 30 016 0440 09 30 016 0441	21 29		
Housings	Housings bulkhead mounting	09 30 016 0307 with thermo-plastic cover 09 30 016 0306 with metal cover 09 30 016 0318		— — —		
	Housings surface mounting	09 30 016 1250	09 30 016 0250 09 30 016 0251	21 29		
	1 side-entry	09 30 016 1290	09 30 016 0290 09 30 016 0291	21 29		
	2 side-entries	with thermo-plastic cover 09 30 016 1255	with thermo-plastic cover 09 30 016 0255 09 30 016 0256	21 29		
	1 side-entry	with thermo-plastic cover 09 30 016 1295	with thermo-plastic cover 09 30 016 0295 09 30 016 0296	21 29		
	2 side-entries	with metal cover 09 30 016 2295	with metal cover 09 30 016 2297 09 30 016 2298	21 29		
	2 side-entries					
	Hoods cable to cable	09 30 016 1750	09 30 016 0750 09 30 016 0751	21 29		

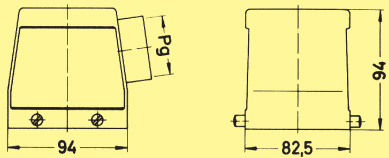
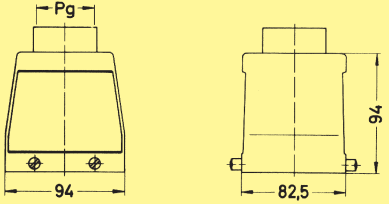
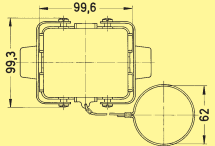
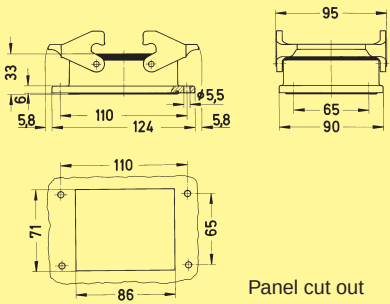
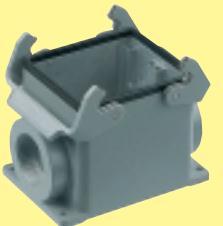
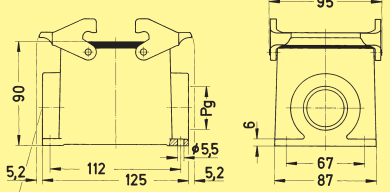
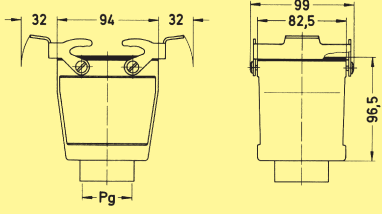
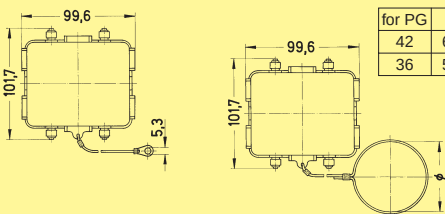
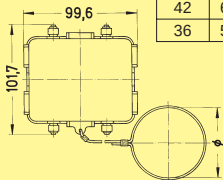
Panel cut out 82 x 35 mm


¹⁾ Blind way for one cable entry

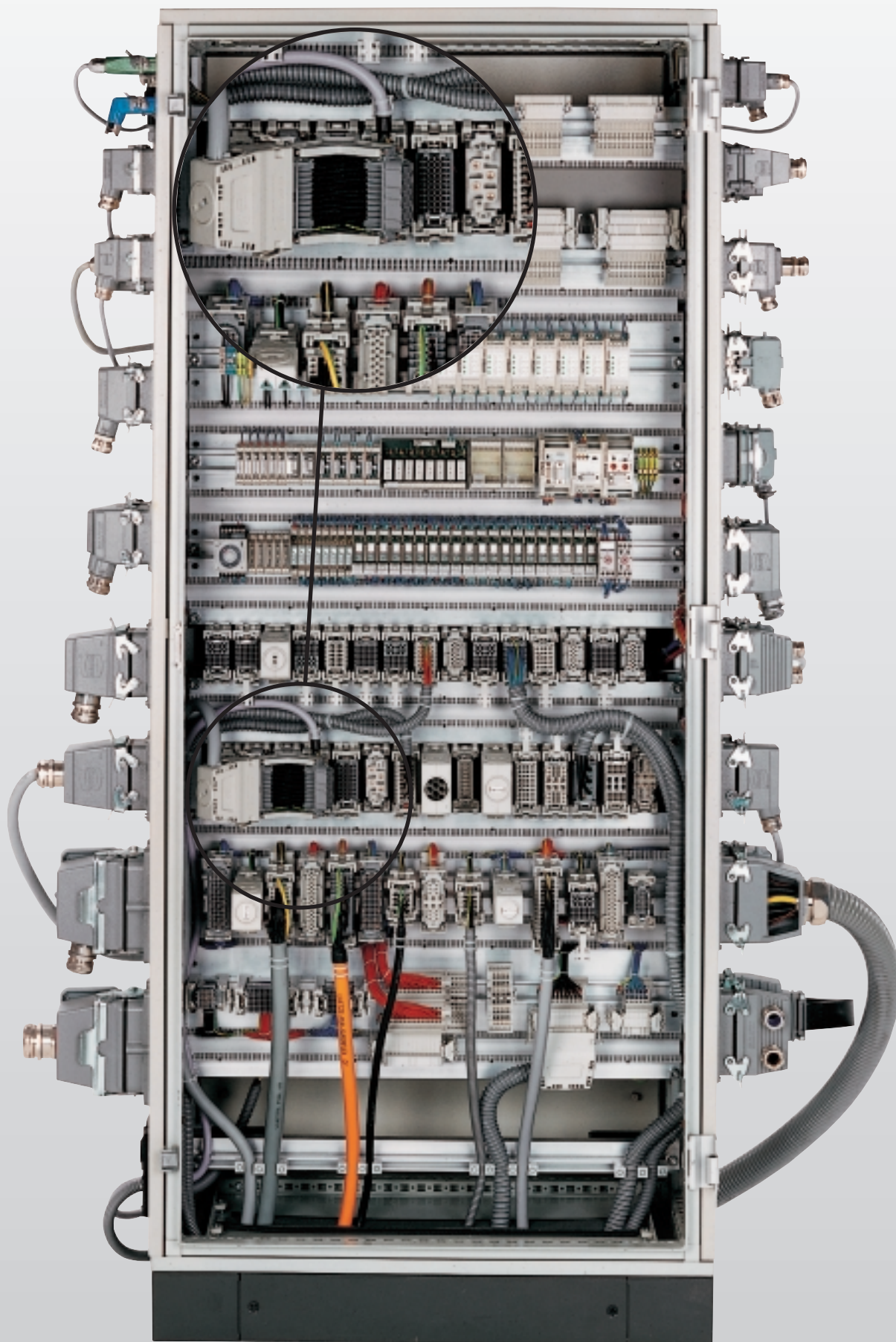
	h
Low construction	56
High construction	81



	h
Low construction	47.5
High construction	78.5

Identification		Part No.	Pg	Drawing	Dimensions in mm
Hoods	Hoods side-entry		09 30 032 0521 09 30 032 0522 09 30 032 0523	29 36 42	
	Hoods top-entry		09 30 032 0421 09 30 032 0422 09 30 032 0423	29 36 42	
	Protection cover for hoods		09 30 032 5420	—	
Housings	Housing bulkhead mounting		09 30 032 0301	—	 Panel cut out
	Housings surface mounting		09 30 032 0231 09 30 032 0232 09 30 032 0233 09 30 032 0271 09 30 032 0272 09 30 032 0273	1 x 29 1 x 36 1 x 42 2 x 29 2 x 36 2 x 42	 Blind way for one cable entry
	Hoods cable to cable		09 30 032 0731 09 30 032 0732 09 30 032 0733	29 36 42	
	Protection covers for housings		09 30 032 5425	—	
	Protection covers for cable to cable hoods		09 30 032 5426 09 30 032 5427	42 36	 for PG Ø 42 64 36 55,5

Stock items in bold type



Specifications

DIN VDE 0627
DIN VDE 0110

Approvals



Inserts

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

Contacts

Material	copper alloy
Surface	
- hard-silver plated	3 μm Ag
Contact resistance	$\leq 0.3 \text{ m}\Omega$ / 1 $\text{m}\Omega$
Screw terminal	
- mm^2	1.5 - 16 mm^2 / 0.5 - 2.5 mm^2
- AWG	16 - 6 / 20 - 14
- Tightening torque	0.8 Nm / 0.5 Nm

Hoods/Housings

Material	die cast aluminium
Surface	powder-coated RAL 7037
Locking element	Steel, zinc plated/Han-Easy Lock®
Hoods/Housings sealing	NBR
Temperature range	- 40 °C ... +125 °C
Degree of protection acc. to DIN 40 050 for coupled connector	IP 65
Further selection of hoods/housings	chapter 30

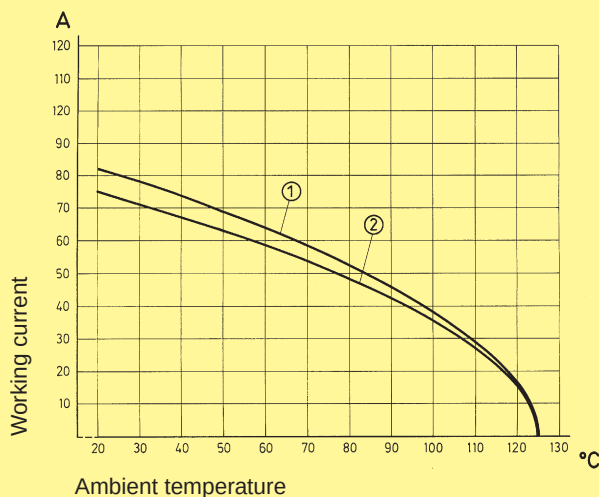
Accessories

Cable clamps	chapter 40
Coding of hoods/housings	chapter 40
Label acc. to CSA-approval	chapter 40
Han-Snap	chapter 11

Current carrying capacity

The current carrying capacity is limited by maximum temperature of materials for inserts and contacts including terminals. The current capacity-curve is valid for continuous, not interrupted current-loaded contacts of connectors when simultaneous power on all contacts is given, without exceeding the maximum temperature.

Control and test procedures according to DIN IEC 60 512-3.

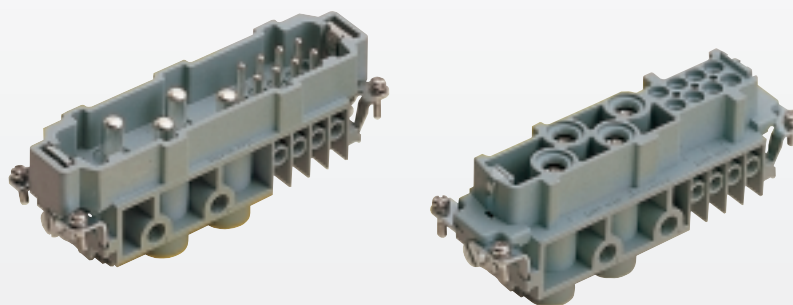


① Wire gauge: 16 mm^2

② Wire gauge: 10 mm^2

Number of contacts

4/8 +

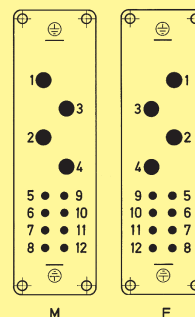


Inserts

		Part No.		Drawing	Dimensions in mm
Identification	Series	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



Han
Com

Specifications

DIN VDE 0627
DIN VDE 0110

Approvals



Inserts

Number of contacts	6 / 6 + PE
Working current (see current carrying capacity)	100 A / 16 A
Working voltage	690 V / 400 V
Test voltage U_{rms}	4 kV / 3 kV
Insulation group	C
Insulation resistance	$\geq 10^{10} \Omega$
Material	Polycarbonate
Temperature range	- 40 °C ... +125 °C
Flammability acc. to UL 94	V 0
Mechanical working life	
- Mating cycles	≥ 500
Working voltage acc. to UL/CSA	600 V / 300 V

Contacts

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

Hoods/Housings

Material	die cast aluminium
Surface	powder-coated RAL 7037
Locking element	Steel, zinc plated/Han-Easy Lock®
Hoods/Housings sealing	NBR
Temperature range	- 40 °C ... +125 °C
Degree of protection acc. to DIN 40 050 for coupled connector	IP 65
Further selection of hoods/housings	chapter 30

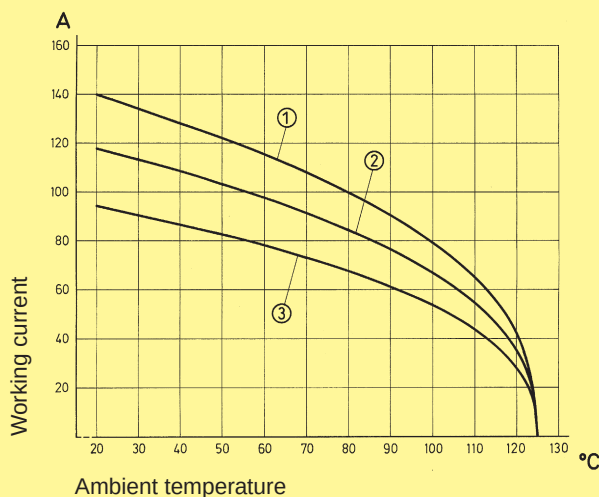
Accessories

Cable clamps	chapter 40
Coding of hoods/housings	chapter 40
Label acc. to CSA-approval	chapter 40
Han-Snap	chapter 11

Current carrying capacity

The current carrying capacity is limited by maximum temperature of materials for inserts and contacts including terminals. The current capacity-curve is valid for continuous, not interrupted current-loaded contacts of connectors when simultaneous power on all contacts is given, without exceeding the maximum temperature.

Control and test procedures according to DIN IEC 60 512-3.



Part No.

Identification

Low construction

High construction

Pg

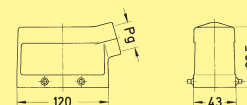
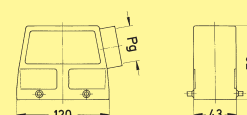
Drawing

Dimensions in mm

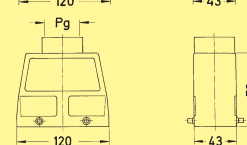
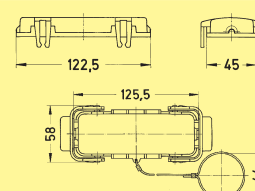
Hoods

Hoods
side-entry**09 30 024 1520**

21

**09 30 024 0520**
09 30 024 052121
29Hoods
top-entry**09 30 024 1421**

29

**09 30 024 0420**
09 30 024 042121
29Protection covers
thermoplastic/metal**09 30 024 5401****09 30 024 5422**

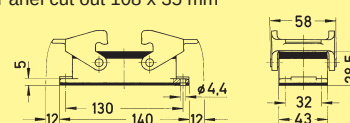
Housings

Housing bulkhead mounting

**09 30 024 0301**

—

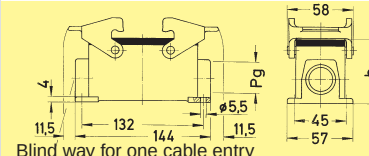
Panel cut out 108 x 35 mm

Housings
surface
mounting

1 side-entry

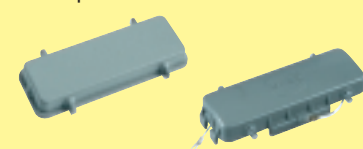
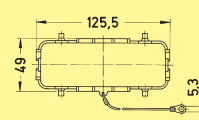
09 30 024 1230**09 30 024 0230**
09 30 024 023121
29

2 side-entries

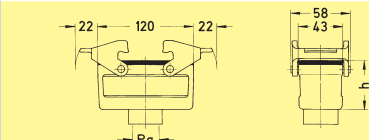
09 30 024 1270**09 30 024 0270**
09 30 024 027121
29

Blind way for one cable entry

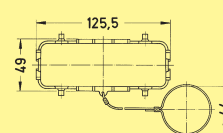
	h
Low construction	56
High construction	81

Protection covers
thermoplastic/metal**09 30 024 5405****09 30 024 5425**

Hoods cable to cable

**09 30 024 1731****09 30 024 0730**
09 30 024 073121
29

	h
Low construction	57.5
High construction	78.5

Protection cover
metal**09 30 024 5426**

Stock items in bold type

		Part No.		Pg	Drawing	Dimensions in mm
Identification		Low construction	High construction			
Hoods	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	Housings bulkhead mounting	09 30 024 0307		—		
		with thermo- plastic cover 09 30 024 0304		—		
		with metal cover 09 30 024 0318		—		
	Housings surface mounting	1 side-entry 09 30 024 1250	09 30 024 0250 09 30 024 0251	21 29		
		2 side-entries 09 30 024 1290	09 30 024 0290 09 30 024 0291	21 29		
		1 side-entry with thermoplastic cover 09 30 024 1255	with thermoplastic cover 09 30 024 0255 09 30 024 0256	21 29		
		2 side-entries with thermoplastic cover 09 30 024 1295	with thermoplastic cover 09 30 024 0295 09 30 024 0296	21 29		
		2 side-entries with metal cover 09 30 024 2295	with metal cover 09 30 024 2297 09 30 024 2298	21 29		
	Hoods cable to cable	09 30 024 1751	09 30 024 0751	29		

¹⁾ Blind way for one cable entry

	h
Low construction	56
High construction	81

	h
Low construction	57.5
High construction	78.5

Drawing

Dimensions in mm

Part No.

Pg

Assembly details

Hoods

2 locking levers

side-entry

09 30 024 0525

36

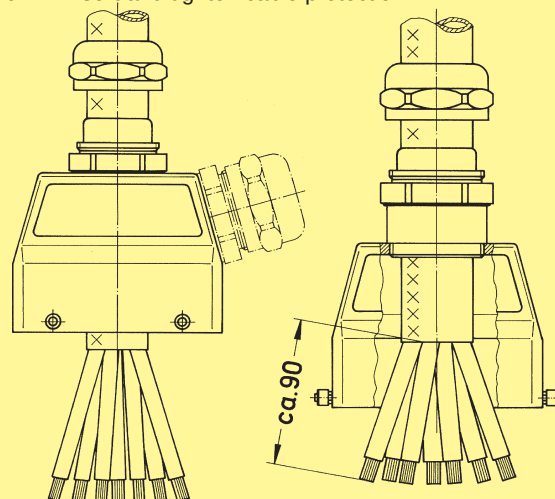
top-entry

09 30 024 0425

36

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. Removal 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

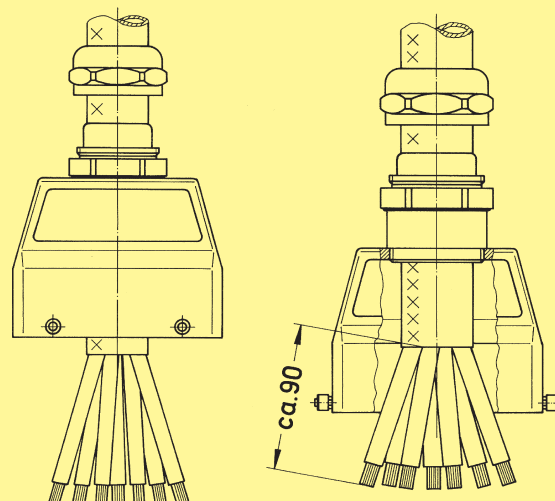
top-entry

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.



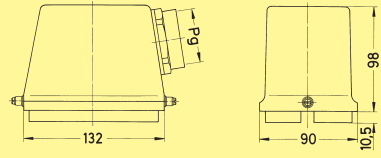
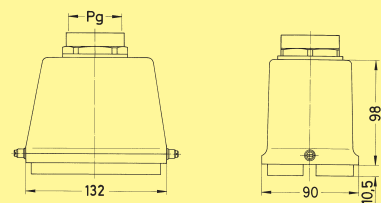
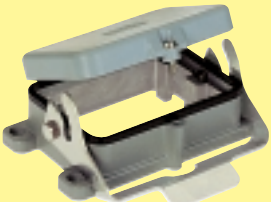
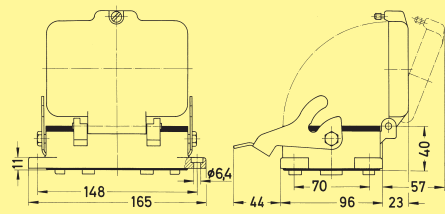
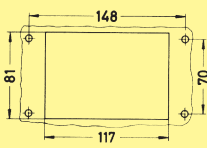
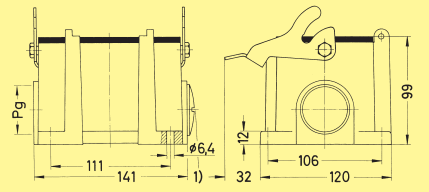
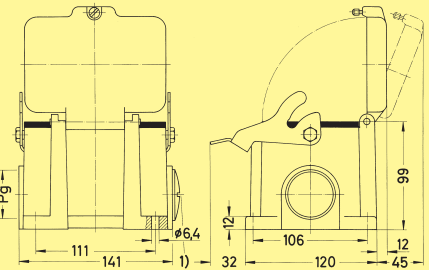
Housings

2 levers on housing

page 05.30

1 lever on housing

page 05.31

Identification	Part No.	Pg	Drawing	Dimensions in mm
Hoods	Hoods side-entry			
		09 30 048 0540 09 30 048 0541 09 30 048 0542	29 36 42	
Hoods	Hoods top-entry			
		09 30 048 0440 09 30 048 0441 09 30 048 0442	29 36 42	
Housings	Housings bulkhead mounting			
		with thermo- plastic cover 09 30 048 0301 with metal cover 09 30 048 0317	— —	 Panel cut out 
Housings	Housings surface mounting	2 side-entries		
	 	09 30 048 0290 09 30 048 0291 with thermo- plastic cover 09 30 048 0295 09 30 048 0296 with metal cover 09 30 048 2295 09 30 048 2296	29 36 29 36 29 36	  ¹⁾ Blind way

Description

Drawing

Dimensions in mm

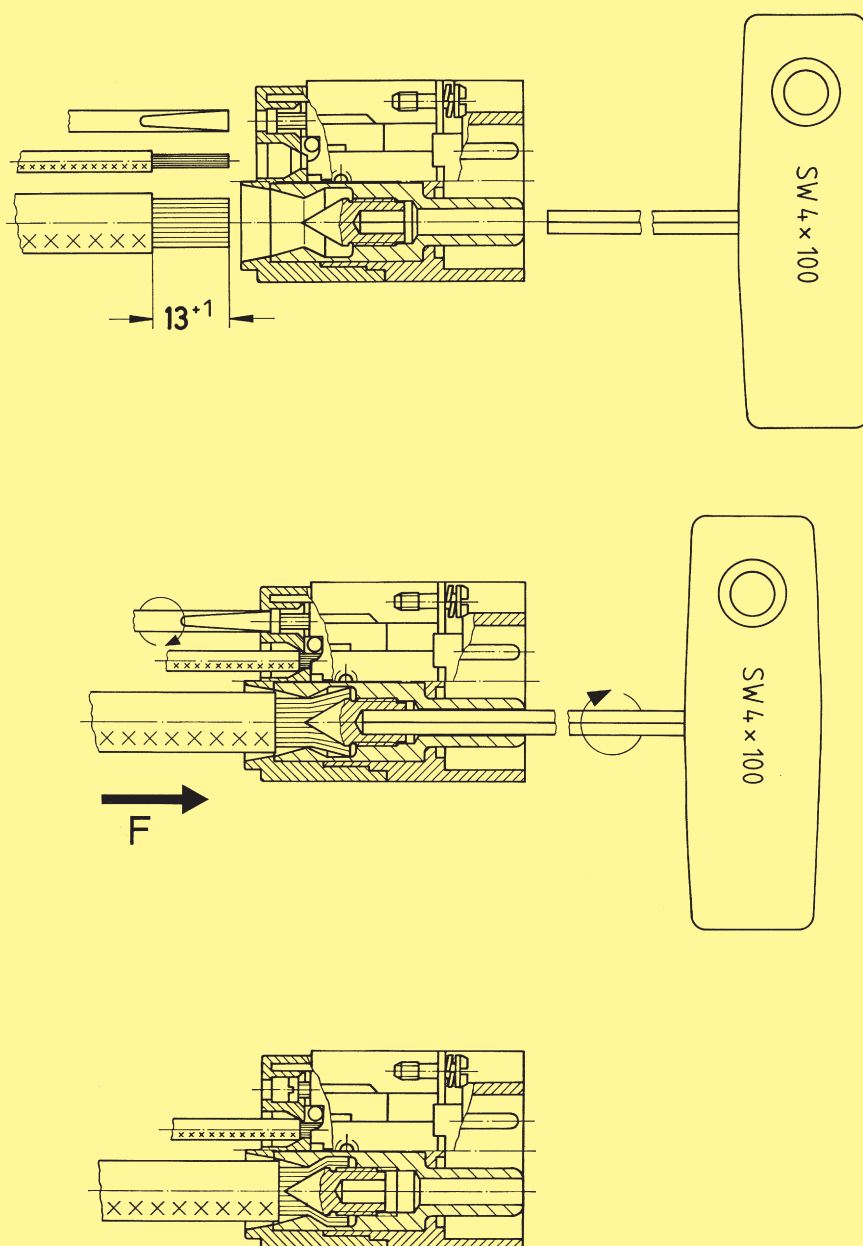
Note:

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.

1. 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.

2. 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 6 Nm.

3. Complete connection.



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