

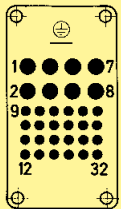
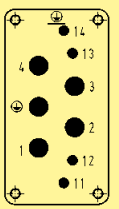
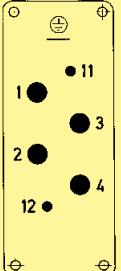
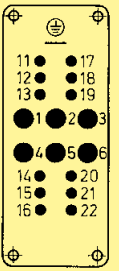
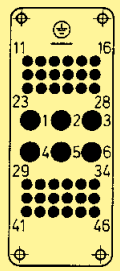
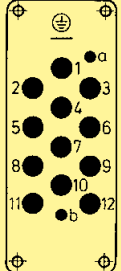
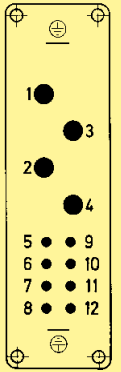
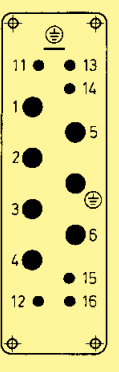
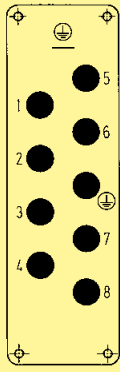
Contents

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Size	Description
10 B	  <p> Han® K 8/24 16 A / 230/400 V 10 A / 160 V Page 05.04 </p> <p> Han® K 4/4 63 A / 690 V 16 A / 230 V Page 05.06 </p>
16 B	    <p> Han® K 4/0, 4/2 80 A / 830 V 16 A / 400 V Page 05.08 </p> <p> Han® K 6/12 40 A / 690 V 10 A / 230/400 V Page 05.10 </p> <p> Han® K 6/36 40 A / 690 V 10 A / 160 V Page 05.12 </p> <p> Han® K 12/2 40 A / 690 V 10 A / 250 V Page 05.14 </p>
24 B	   <p> Han® K 4/8 80 A / 400 V 16 A / 400 V Page 05.16 </p> <p> Han® K 6/6 100 A / 690 V 16 A / 400 V Page 05.18 </p> <p> Han® K 8/0 100 A / 690 V Page 05.20 </p>
32 B	suitable for 2 inserts of size 16 B
48 B	suitable for 2 inserts of size 24 B

Summary

Type	Technical characteristics								Suitable Hoods/ Housings
	Power area				Signal area				
	Number of contacts	A	V ~	Termination	Number of contacts	A	V ~	Termination	Size
Han® K 4/0	4+PE	80	830	screw	—	—	—	—	16 B, 32 B
Han® K 4/2	4+PE	80	830	screw	2	16	400	screw	16 B, 32 B
Han® K 4/4	4+PE	63	690	axial screw	4	16	250	cage clamp	10 B
Han® K 4/8	4+PE	80	400	screw	8	16	400	screw	24 B, 48 B
Han® K 6/6	6+PE	100	690	axial screw	6	16	400	screw	24 B, 48 B
Han® K 6/12	6+PE	40	690	axial screw	12	10	230/400	screw	16 B, 32 B
Han® K 6/36	6+PE	40	690	crimp	36	10	160	crimp	16 B, 32 B
Han® K 8/0	8+PE	100	690	axial screw	—	—	—	—	24 B, 48 B
Han® K 8/24	8+PE	16	230/400	crimp	24	10	160	crimp	10 B
Han® K 12/2	12+PE	40	690	crimp	2	10	250	crimp	16 B, 32 B

Type identification

Han® K 6/12

Han®	Industrial connectors Han®
K	Series Han® K / Han-Com®
6	Number of power contacts
12	Number of signal contacts

Identification of contact position

Han® K connectors	from 1 to ... (power area)
from 11 to... (signal area)	
Exceptions	
Han® K 4/8 and Han® K 8/24	from 1 to ... (consecutively)
Han® K 12/2	from 1 to 12 (power area)
with „a“ and „b“ (signal area)	

Comment for users

For the combination of several circuits in one cable and/or e.g. one connector the following standards are valid:
VDE 0100-410/06.2007 § 411.1.3.2 and EN 60 204/06.2007 § 13.1.3

Accessories

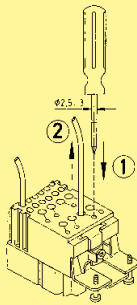
Crimping tools	chapter 99
Cable clamps	chapter 40
Coding of hoods/housings	chapter 40
Label acc. to CSA-approval	chapter 40
Han-Snap®	chapter 11
PCB adapter	chapter 40

Features

- Combination of power and signal area in one connector
- Crimp termination for power and signal area
- Use of standard Han E® and Han D® contacts

Removal of power contacts (Han E®)

- ① Push cross-slotted screw driver (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



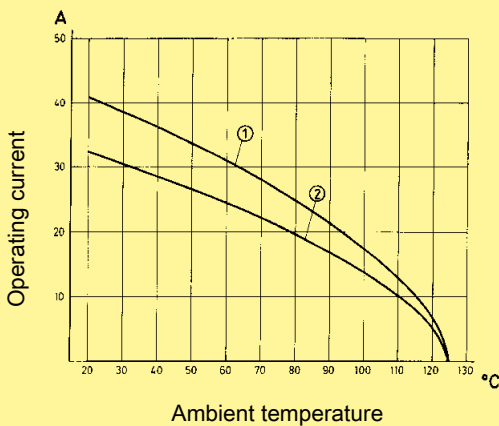
Removal of signal contacts (Han D®)

Description see removal tool chapter 99

Current carrying capacity

The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the connector evenly, without exceeding the allowed maximum temperature.

Measuring and testing techniques according to DIN EN 60 512-5



Wire gauge:

- ① 4 mm²
- ② 2.5 mm²

Technical characteristics

Specifications: DIN EN 60 664-1
DIN EN 61 984

Approvals:

Inserts

Number of contacts: 8 / 24 + PE
Electrical data acc. to EN 61 984
Power area 16 A 230/400 V 4 kV 3
Rated current: 16 A
Rated voltage conductor - ground: 230 V
Rated voltage conductor - conductor: 400 V
Rated impulse voltage: 4 kV
Pollution degree: 3
Pollution degree 2 also: 10 A 250 V 4 kV 2

Signal area 10 A 160 V 2.5 kV 3
Rated current: 10 A
Rated voltage: 160 V
Rated impulse voltage: 2.5 kV
Pollution degree: 3
Rated voltage acc. to UL/CSA: 600 V / 300 V
Insulation resistance: ≥ 10¹⁰ Ω
Material: Polyamide
Limiting temperatures: -40 °C ... +125 °C
Flammability acc. to UL 94: HB
Mechanical working life - mating cycles: ≥ 500

Contacts

Power contacts

Material: copper alloy
Surface:
- hard-silver plated: 3 μm Ag
- hard-gold plated: 2 μm Au over 3 μm Ni
Contact resistance: ≤ 1 mΩ
Crimp terminal:
- mm²: 0.5 ... 4 mm²
- AWG: 20 ... 12

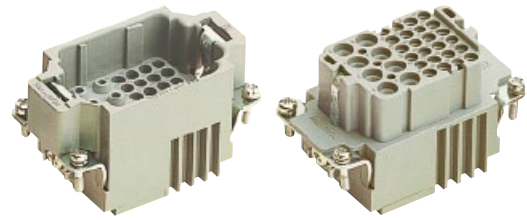
Signal contacts

Material: copper alloy
Surface:
- hard-silver plated: 3 μm Ag
- hard-gold plated: 2 μm Au over 3 μm Ni
Contact resistance: ≤ 3 mΩ
Crimp terminal:
- mm²: 0.14 ... 2.5 mm²
- AWG: 25 ... 14

Hoods/Housings: see chapter 30 / 31

Number of contacts

8/24 +



Identification	Part number		Drawing	Dimensions in mm
	Male insert (M)	Female insert (F)		
Crimp terminal Order crimp contacts separately	09 38 032 3001	09 38 032 3101	<p>1) Distance for contact max. 21 mm</p>	

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Identification	Wire gauge (mm ²)	Part number		Drawing	Dimensions in mm																												
		Male contact	Female contact																														
Crimp contacts Power contacts silver plated 	0.5 0.75 1 1.5 2.5 4	09 33 000 6121 09 33 000 6114 09 33 000 6105 09 33 000 6104 09 33 000 6102 09 33 000 6107	09 33 000 6220 09 33 000 6214 09 33 000 6205 09 33 000 6204 09 33 000 6202 09 33 000 6207																														
gold plated 	0.5 0.75 1 1.5 2.5 4	09 33 000 6122 09 33 000 6115 09 33 000 6118 09 33 000 6116 09 33 000 6123 09 33 000 6119	09 33 000 6222 09 33 000 6215 09 33 000 6218 09 33 000 6216 09 33 000 6223 09 33 000 6221	<table border="1"> <thead> <tr> <th>Identification</th> <th colspan="2">Wire gauge</th> <th>Stripping length</th> </tr> </thead> <tbody> <tr> <td>no groove</td> <td>0.5 mm²</td> <td>AWG 20</td> <td>7.5 mm</td> </tr> <tr> <td>1 groove*</td> <td>0.75 mm²</td> <td>AWG 18</td> <td>7.5 mm</td> </tr> <tr> <td>1 groove</td> <td>1 mm²</td> <td>AWG 18</td> <td>7.5 mm</td> </tr> <tr> <td>2 grooves</td> <td>1.5 mm²</td> <td>AWG 16</td> <td>7.5 mm</td> </tr> <tr> <td>3 grooves</td> <td>2.5 mm²</td> <td>AWG 14</td> <td>7.5 mm</td> </tr> <tr> <td>no groove</td> <td>4 mm²</td> <td>AWG 12</td> <td>7.5 mm</td> </tr> </tbody> </table> <p>* on the back crimp collar</p>	Identification	Wire gauge		Stripping length	no groove	0.5 mm ²	AWG 20	7.5 mm	1 groove*	0.75 mm ²	AWG 18	7.5 mm	1 groove	1 mm ²	AWG 18	7.5 mm	2 grooves	1.5 mm ²	AWG 16	7.5 mm	3 grooves	2.5 mm ²	AWG 14	7.5 mm	no groove	4 mm ²	AWG 12	7.5 mm	
Identification	Wire gauge		Stripping length																														
no groove	0.5 mm ²	AWG 20	7.5 mm																														
1 groove*	0.75 mm ²	AWG 18	7.5 mm																														
1 groove	1 mm ²	AWG 18	7.5 mm																														
2 grooves	1.5 mm ²	AWG 16	7.5 mm																														
3 grooves	2.5 mm ²	AWG 14	7.5 mm																														
no groove	4 mm ²	AWG 12	7.5 mm																														
Relay contacts silver plated 	0.75-1 1.5 2.5	09 33 000 6109 09 33 000 6110 09 33 000 6111																															
Signal contacts silver plated 	0.14-0.37 0.5 0.75 1 1.5 2.5	09 15 000 6104 09 15 000 6103 09 15 000 6105 09 15 000 6102 09 15 000 6101 09 15 000 6106	09 15 000 6204 09 15 000 6203 09 15 000 6205 09 15 000 6202 09 15 000 6201 09 15 000 6206	<table border="1"> <thead> <tr> <th colspan="2">Wire gauge</th> <th>∅</th> <th>Stripping length</th> </tr> </thead> <tbody> <tr> <td>0.14-0.37 mm²</td> <td>AWG 26-22</td> <td>0.9</td> <td>8 mm</td> </tr> <tr> <td>0.5 mm²</td> <td>AWG 20</td> <td>1.1</td> <td>8 mm</td> </tr> <tr> <td>0.75 mm²</td> <td>AWG 18</td> <td>1.3</td> <td>8 mm</td> </tr> <tr> <td>1 mm²</td> <td>AWG 18</td> <td>1.45</td> <td>8 mm</td> </tr> <tr> <td>1.5 mm²</td> <td>AWG 16</td> <td>1.75</td> <td>8 mm</td> </tr> <tr> <td>2.5 mm²</td> <td>AWG 14</td> <td>2.25</td> <td>6 mm</td> </tr> </tbody> </table>	Wire gauge		∅	Stripping length	0.14-0.37 mm ²	AWG 26-22	0.9	8 mm	0.5 mm ²	AWG 20	1.1	8 mm	0.75 mm ²	AWG 18	1.3	8 mm	1 mm ²	AWG 18	1.45	8 mm	1.5 mm ²	AWG 16	1.75	8 mm	2.5 mm ²	AWG 14	2.25	6 mm	
Wire gauge		∅	Stripping length																														
0.14-0.37 mm ²	AWG 26-22	0.9	8 mm																														
0.5 mm ²	AWG 20	1.1	8 mm																														
0.75 mm ²	AWG 18	1.3	8 mm																														
1 mm ²	AWG 18	1.45	8 mm																														
1.5 mm ²	AWG 16	1.75	8 mm																														
2.5 mm ²	AWG 14	2.25	6 mm																														
gold plated 	0.14-0.37 0.5 0.75 1 1.5 2.5	09 15 000 6124 09 15 000 6123 09 15 000 6125 09 15 000 6122 09 15 000 6121 09 15 000 6126	09 15 000 6224 09 15 000 6223 09 15 000 6225 09 15 000 6222 09 15 000 6221 09 15 000 6226																														
F.O. contacts for 1 mm 		20 10 001 3211	20 10 001 3221																														

Stock items in bold type

Features

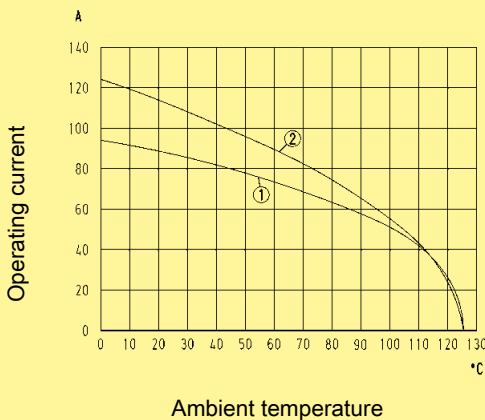
- Combination of power area and signal area in the same connector
- Axial screw termination for power area
- Cage clamp termination for signal area
- Finger safe
- Same range of wire gauge for PE contact and power contacts

Assembly instructions see page 05.22

Current carrying capacity

The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the connector evenly, without exceeding the allowed maximum temperature.

Measuring and testing techniques according to DIN EN 60 512-5



Wire gauge: ① 16 mm²
 ② 22 mm²

Technical characteristics

Specifications DIN EN 60 664-1
 DIN EN 61 984

Approvals

Inserts

Number of contacts	4 / 4 + PE
Electrical data acc. to EN 61 984	
Power area	63 A 690 V 8 kV 3
Rated current	63 A
Rated voltage	690 V
Rated impulse voltage	8 kV
Pollution degree	3
Signal area	16 A 250 V 4 kV 3
Rated current	16 A
Rated voltage	250 V
Rated impulse voltage	4 kV
Pollution degree	3
Rated voltage acc. to UL	600 V / 230 V
Insulation resistance	≥ 10 ¹⁰ Ω
Material	polycarbonate
Limiting temperatures	-40 °C ... +125 °C
Flammability acc. to UL 94	V 0
Mechanical working life - mating cycles	≥ 500

Contacts

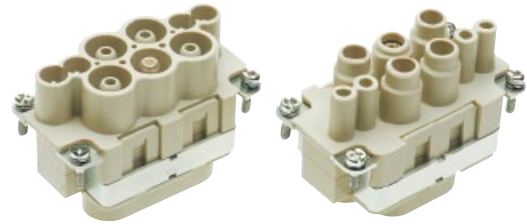
<u>Power contacts</u>											
Material	copper alloy										
Surface											
- hard-silver plated	3 µm Ag										
Contact resistance	≤ 0.5 mΩ										
Axial screw termination											
- geometric wire gauge	6 ... 22 mm ²										
- AWG	8 ... 4										
Max. insulation diameter											
6 ... 16 mm ²	8.9 mm										
22 mm ²	11 mm										
Tightening torque											
	<table border="1"><tr><td>mm²</td><td>6</td><td>10</td><td>16</td><td>22</td></tr><tr><td>Nm</td><td>2</td><td>3</td><td>4</td><td>5</td></tr></table>	mm ²	6	10	16	22	Nm	2	3	4	5
mm ²	6	10	16	22							
Nm	2	3	4	5							
Stripping length											
	<table border="1"><tr><td>mm²</td><td>6</td><td>10</td><td>16</td><td>22</td></tr><tr><td>mm</td><td>11⁺¹</td><td>11⁺¹</td><td>11⁺¹</td><td>13⁺¹</td></tr></table>	mm ²	6	10	16	22	mm	11 ⁺¹	11 ⁺¹	11 ⁺¹	13 ⁺¹
mm ²	6	10	16	22							
mm	11 ⁺¹	11 ⁺¹	11 ⁺¹	13 ⁺¹							

<u>Signal contacts</u>	
Material	copper alloy
Surface	
- hard-silver plated	3 µm Ag
Contact resistance	≤ 3 mΩ
Cage clamp terminal	
- geometric wire gauge	0.14 ... 2.5 mm ²
- AWG	26 ... 14
Stripping length	7 ... 9 mm

Hoods/Housings see chapter 30 / 31

Number of contacts

4/4 +



Identification	Part number		Drawing	Dimensions in mm
	Male insert (M)	Female insert (F)		
Han® K 4/4 Axial screw terminal / Cage clamp terminal			<p>1) Distance for contact max. 21 mm</p>	
finger safe 6 ... 16 mm ²	09 38 008 2601	09 38 008 2701		
finger safe 10 ... 22 mm ²	09 38 008 2602	09 38 008 2702		
not finger safe 6 ... 16 mm ²	09 38 008 2611			
not finger safe 10 ... 22 mm ²	09 38 008 2612			

Identification	Part number	Drawing	Dimensions in mm
Hex key SW 2.5 for axial setscrew			
adapter 1/4"	09 99 000 0375		



Features

- Combination of power and signal area in one connector
- Screw termination for power and signal area
- Missing signal contacts for Han® K 4/0

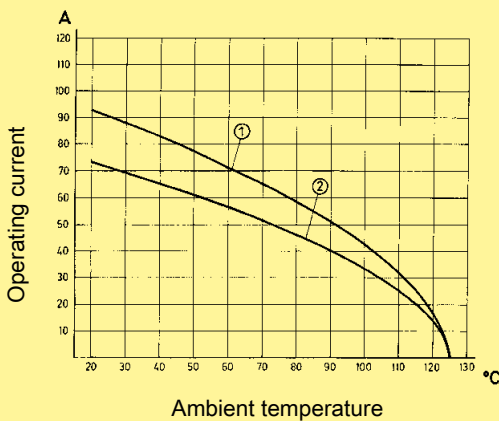
In accordance with the appropriate regulations a wire-end sleeve has to be used at clamps without wire protection (see „Screw terminal“, chapter 00).

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Current carrying capacity

The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the connector evenly, without exceeding the allowed maximum temperature.

Measuring and testing techniques according to DIN EN 60 512-5



Wire gauge: ① 16 mm²
 ② 10 mm²

Technical characteristics

Specifications DIN EN 60 664-1
 DIN EN 61 984

Approvals

Inserts

Number of contacts 4 / 2 + PE
Electrical data
acc. to EN 61 984
Power area **80 A 830 V 8 kV 3**
Rated current 80 A
Rated voltage 830 V
Rated impulse voltage 8 kV
Pollution degree 3
Pollution degree 2 also 80 A 1000 V 8 kV 2

Signal area **16 A 400 V 6 kV 3**
Rated current 16 A
Rated voltage 400 V
Rated impulse voltage 6 kV
Pollution degree 3
Pollution degree 2 also 16 A 400/690 V 6 kV 2

Rated voltage
acc. to UL/CSA 600 V / 300 V
Insulation resistance ≥ 10¹⁰ Ω
Material polycarbonate
Limiting temperatures -40 °C ... +125 °C
Flammability acc. to UL 94 V 0
Mechanical working life
- mating cycles ≥ 500

Contacts

Power contacts
Material copper alloy
Surface
- hard-silver plated 3 μm Ag
Contact resistance ≤ 0.3 mΩ
Screw terminal
- geometric wire gauge 1.5 ... 16 mm²
- AWG 16 ... 6
Tightening torque

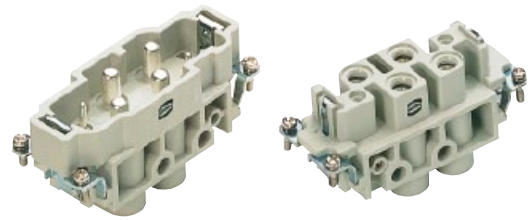
mm ²	1.5	2.5	4	6	10	16
Nm	1.2	2	3	3	3	3

Stripping length 14 mm
Signal contacts
Material copper alloy
Surface
- hard-silver plated 3 μm Ag
Contact resistance ≤ 1 mΩ
Screw terminal
- geometric wire gauge 0.5 ... 2.5 mm²
- AWG 20 ... 14
Tightening torque 0.5 Nm
Stripping length 7.5 mm

Hoods/Housings see chapter 30 / 31

Number of contacts

4/0, 4/2 +



Identification	Part number		Drawing	Dimensions in mm
	Male insert (M)	Female insert (F)		
Han K 4/0, Han [®] K 4/2 Screw terminal			<p>1) Distance for contact max. 21 mm</p> <p>Han K 4/0 Han[®] K 4/2</p> <p>Contact arrangement view from termination side</p>	
Han [®] K 4/2	09 38 006 2601	09 38 006 2701		
Han [®] K 4/0	09 38 006 2611	09 38 006 2711		

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Features

- Combination of power and signal area in one connector
- Axial screw termination for power area
- Screw termination for signal area

Assembly instructions see page 05.23

Technical characteristics

Specifications DIN EN 60 664-1
DIN EN 61 984

Approvals

Inserts

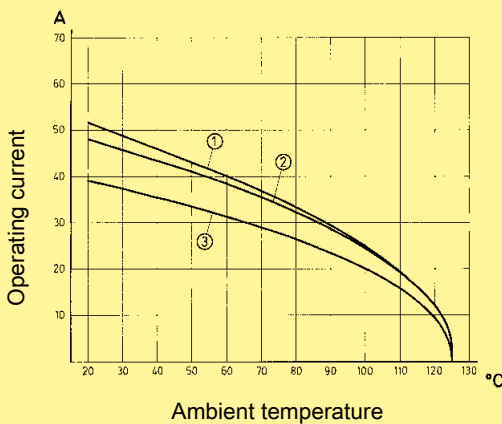
Number of contacts	6 / 12 + PE
Electrical data acc. to EN 61 984	
Power area	40 A 690 V 8 kV 3
Rated current	40 A
Rated voltage	690 V
Rated impulse voltage	8 kV
Pollution degree	3
Signal area	10 A 230/400 V 4 kV 3
Rated current	10 A
Rated voltage conductor - ground	230 V
Rated voltage conductor - conductor	400 V
Rated impulse voltage	4 kV
Pollution degree	3
Rated voltage acc. to UL/CSA	600 V / 300 V
Insulation resistance	≥ 10 ¹⁰ Ω
Material	polycarbonate
Limiting temperatures	-40 °C ... +125 °C
Flammability acc. to UL 94	V 0
Mechanical working life - mating cycles	≥ 500

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Current carrying capacity

The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the connector evenly, without exceeding the allowed maximum temperature.

Measuring and testing techniques according to DIN EN 60 512-5



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

Contacts

Power contacts

Material	copper alloy										
Surface											
- hard-silver plated	3 μm Ag										
Contact resistance	≤ 0.5 mΩ										
Axial screw termination											
- geometric wire gauge	2.5 ... 10 mm ²										
- AWG	14 ... 8										
Max. insulation diameter	6.1 mm										
Tightening torque	<table border="1"> <tr> <td>mm²</td> <td>2.5</td> <td>4</td> <td>6</td> <td>10</td> </tr> <tr> <td>Nm</td> <td>1.5</td> <td>1.5</td> <td>2</td> <td>2</td> </tr> </table>	mm ²	2.5	4	6	10	Nm	1.5	1.5	2	2
mm ²	2.5	4	6	10							
Nm	1.5	1.5	2	2							

Stripping length	mm ²	2.5	4	6	10
	mm	5+1	5+1	8+1	8+1

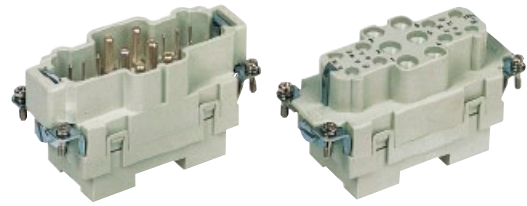
Signal contacts

Material	copper alloy
Surface	
- hard-silver plated	3 μm Ag
Contact resistance	≤ 3 mΩ
Screw terminal	
- geometric wire gauge	0.2 ... 2.5 mm ²
- AWG	24 ... 14
Tightening torque	0.8 Nm
Stripping length	7.5 mm

Hoods/Housings see chapter 30 / 31

Number of contacts

6/12 +



Identification	Part number		Drawing	Dimensions in mm
	Male insert (M)	Female insert (F)		
Han® K 6/12 Axial screw terminal / Screw terminal				
2.5 ... 8 mm ²	09 38 018 2601	09 38 018 2701		
6 ... 10 mm ²	09 38 018 2602	09 38 018 2702		

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Identification	Part number	Drawing	Dimensions in mm
Hex key SW 2 for axial setscrew			
adapter 1/4"	09 99 000 0369		



Features

- Combination of power and signal area in one connector
- Crimp termination for power and signal area
- Use of standard Han® C and Han D® contacts

Removal of power contacts (Han® C)

Description see removal tool chapter 99

Removal of signal contacts (Han D®)

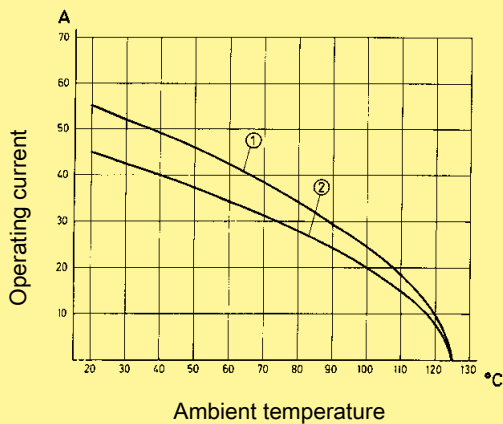
Description see removal tool chapter 99

Han
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Current carrying capacity

The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the connector evenly, without exceeding the allowed maximum temperature.

Measuring and testing techniques according to DIN EN 60 512-5



Wire gauge:

① 6 mm²

② 4 mm²

Technical characteristics

Specifications DIN EN 60 664-1
DIN EN 61 984

Approvals

Inserts

Number of contacts	6 / 36 + PE
Electrical data acc. to EN 61 984	
Power area	40 A 690 V 8 kV 3
Rated current	40 A
Rated voltage	690 V
Rated impulse voltage	8 kV
Pollution degree	3
Signal area	10 A 160 V 2.5 kV 3
Rated current	10 A
Rated voltage	160 V
Rated impulse voltage	2.5 kV
Pollution degree	3
Pollution degree 2 also	10 A 250 V 4 kV 2

Rated voltage acc. to UL/CSA	600 V / 300 V
Insulation resistance	≥ 10 ¹⁰ Ω
Material	polycarbonate
Limiting temperatures	-40 °C ... +125 °C
Flammability acc. to UL 94	V 0
Mechanical working life - mating cycles	≥ 500

Contacts

Power contacts

Material	copper alloy
Surface	
- hard-silver plated	3 μm Ag
- hard-gold plated	2 μm Au over 3 μm Ni
Contact resistance	≤ 0.3 mΩ
Crimp terminal	
- mm ²	1.5 ... 6 mm ²
- AWG	16 ... 10
Max. insulation diameter	5 mm

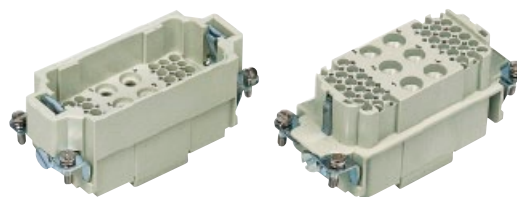
Signal contacts

Material	copper alloy
Surface	
- hard-silver plated	3 μm Ag
- hard-gold plated	2 μm Au over 3 μm Ni
Contact resistance	≤ 3 mΩ
Crimp terminal	
- mm ²	0.14 ... 2.5 mm ²
- AWG	26 ... 14

Hoods/Housings see chapter 30 / 31

Number of contacts

6/36 +



Identification	Part number		Drawing	Dimensions in mm
	Male insert (M)	Female insert (F)		
Crimp terminal Order crimp contacts separately	09 38 042 3001	09 38 042 3101	<p>1) Distance for contact max. 21 mm</p> <p>11 15 23 28 34 41 16 20 24 29 35 40 2 6 10 14 18 22 26 30 34 38 42</p>	

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Identification	Wire gauge (mm²)	Part number		Drawing	Dimensions in mm																												
		Male contact	Female contact																														
Crimp contacts Power contacts silver plated 	1.5 2.5 4 6	09 32 000 6104 09 32 000 6105 09 32 000 6107 09 32 000 6108	09 32 000 6204 09 32 000 6205 09 32 000 6207 09 32 000 6208	<table border="1"> <thead> <tr> <th colspan="2">Wire gauge</th> <th>Ø</th> <th>Stripping length</th> </tr> </thead> <tbody> <tr> <td>1.5 mm²</td> <td>AWG 16</td> <td>1.75</td> <td>9 mm</td> </tr> <tr> <td>2.5 mm²</td> <td>AWG 14</td> <td>2.25</td> <td>9 mm</td> </tr> <tr> <td>4 mm²</td> <td>AWG 12</td> <td>2.85</td> <td>9.6 mm</td> </tr> <tr> <td>6 mm²</td> <td>AWG 10</td> <td>3.5</td> <td>9.6 mm</td> </tr> </tbody> </table>	Wire gauge		Ø	Stripping length	1.5 mm²	AWG 16	1.75	9 mm	2.5 mm²	AWG 14	2.25	9 mm	4 mm²	AWG 12	2.85	9.6 mm	6 mm²	AWG 10	3.5	9.6 mm									
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Signal contacts silver plated 	0.14-0.37 0.5 0.75 1 1.5 2.5	09 15 000 6104 09 15 000 6103 09 15 000 6105 09 15 000 6102 09 15 000 6101 09 15 000 6106	09 15 000 6204 09 15 000 6203 09 15 000 6205 09 15 000 6202 09 15 000 6201 09 15 000 6206	<table border="1"> <thead> <tr> <th colspan="2">Wire gauge</th> <th>Ø</th> <th>Stripping length</th> </tr> </thead> <tbody> <tr> <td>0.14-0.37 mm²</td> <td>AWG 26-22</td> <td>0.9</td> <td>8 mm</td> </tr> <tr> <td>0.5 mm²</td> <td>AWG 20</td> <td>1.1</td> <td>8 mm</td> </tr> <tr> <td>0.75 mm²</td> <td>AWG 18</td> <td>1.3</td> <td>8 mm</td> </tr> <tr> <td>1 mm²</td> <td>AWG 18</td> <td>1.45</td> <td>8 mm</td> </tr> <tr> <td>1.5 mm²</td> <td>AWG 16</td> <td>1.75</td> <td>8 mm</td> </tr> <tr> <td>2.5 mm²</td> <td>AWG 14</td> <td>2.25</td> <td>6 mm</td> </tr> </tbody> </table>	Wire gauge		Ø	Stripping length	0.14-0.37 mm²	AWG 26-22	0.9	8 mm	0.5 mm²	AWG 20	1.1	8 mm	0.75 mm²	AWG 18	1.3	8 mm	1 mm²	AWG 18	1.45	8 mm	1.5 mm²	AWG 16	1.75	8 mm	2.5 mm²	AWG 14	2.25	6 mm	
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gold plated 	0.14-0.37 0.5 0.75 1 1.5 2.5	09 15 000 6124 09 15 000 6123 09 15 000 6125 09 15 000 6122 09 15 000 6121 09 15 000 6126	09 15 000 6224 09 15 000 6223 09 15 000 6225 09 15 000 6222 09 15 000 6221 09 15 000 6226	<table border="1"> <thead> <tr> <th colspan="2">Wire gauge</th> <th>Ø</th> <th>Stripping length</th> </tr> </thead> <tbody> <tr> <td>0.14-0.37 mm²</td> <td>AWG 26-22</td> <td>0.9</td> <td>8 mm</td> </tr> <tr> <td>0.5 mm²</td> <td>AWG 20</td> <td>1.1</td> <td>8 mm</td> </tr> <tr> <td>0.75 mm²</td> <td>AWG 18</td> <td>1.3</td> <td>8 mm</td> </tr> <tr> <td>1 mm²</td> <td>AWG 18</td> <td>1.45</td> <td>8 mm</td> </tr> <tr> <td>1.5 mm²</td> <td>AWG 16</td> <td>1.75</td> <td>8 mm</td> </tr> <tr> <td>2.5 mm²</td> <td>AWG 14</td> <td>2.25</td> <td>6 mm</td> </tr> </tbody> </table>	Wire gauge		Ø	Stripping length	0.14-0.37 mm²	AWG 26-22	0.9	8 mm	0.5 mm²	AWG 20	1.1	8 mm	0.75 mm²	AWG 18	1.3	8 mm	1 mm²	AWG 18	1.45	8 mm	1.5 mm²	AWG 16	1.75	8 mm	2.5 mm²	AWG 14	2.25	6 mm	
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2.5 mm²	AWG 14	2.25	6 mm																														
F.O. contacts for 1 mm 		20 10 001 3211	20 10 001 3221																														

Stock items in bold type

Features

- Combination of power and signal area in one connector
- Crimp termination for power and signal area
- Use of standard Han® C and Han D® contacts

Removal of power contacts (Han® C)

Description see removal tool chapter 99

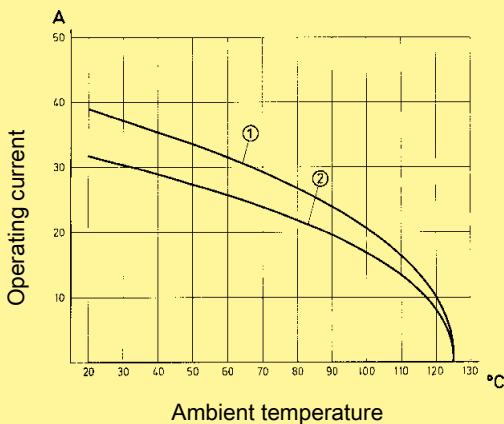
Removal of signal contacts (Han D®)

Description see removal tool chapter 99

Current carrying capacity

The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the connector evenly, without exceeding the allowed maximum temperature.

Measuring and testing techniques according to DIN EN 60 512-5



Wire gauge: ① 6 mm²
 ② 4 mm²

Technical characteristics

Specifications DIN EN 60 664-1
 DIN EN 61 984

Approvals

Inserts

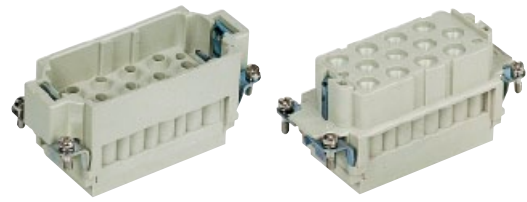
Number of contacts	12 / 2 + PE
Electrical data acc. to EN 61 984	
Power area	40 A 690 V 8 kV 3
Rated current	40 A
Rated voltage	690 V
Rated impulse voltage	8 kV
Pollution degree	3
Signal area	10 A 250 V 4 kV 3
Rated current	10 A
Rated voltage	250 V
Rated impulse voltage	4 kV
Pollution degree	3
Rated voltage acc. to UL/CSA	600 V / 300 V
Insulation resistance	≥ 10 ¹⁰ Ω
Material	polycarbonate
Limiting temperatures	-40 °C ... +125 °C
Flammability acc. to UL 94	V 0
Mechanical working life - mating cycles	≥ 500

Contacts

<u>Power contacts</u>	
Material	copper alloy
Surface	
- hard-silver plated	3 µm Ag
- hard-gold plated	2 µm Au over 3 µm Ni
Contact resistance	≤ 0.3 mΩ
Crimp terminal	
- mm ²	1.5 ... 6 mm ²
- AWG	16 ... 10
<u>Signal contacts</u>	
Material	copper alloy
Surface	
- hard-silver plated	3 µm Ag
- hard-gold plated	2 µm Au over 3 µm Ni
Contact resistance	≤ 3 mΩ
Crimp terminal	
- mm ²	0.14 ... 2.5 mm ²
- AWG	26 ... 14

Hoods/Housings see chapter 30 / 31

Number of contacts

12/2 +


Identification	Part number		Drawing	Dimensions in mm
	Male insert (M)	Female insert (F)		
Crimp terminal Order crimp contacts separately	09 32 012 3001	09 32 012 3101	<p>1) Distance for contact max. 21 mm</p> <p>Contact arrangement view from termination side</p>	

Identification	Wire gauge (mm ²)	Part number		Drawing	Dimensions in mm																												
		Male contact	Female contact																														
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F.O. contacts for 1 mm 		20 10 001 3211	20 10 001 3221																														

Stock items in bold type

Features

- Combination of power and signal area in one connector
- Screw termination for power and signal area

In accordance with the appropriate regulations a wire-end sleeve has to be used at clamps without wire protection (see „Screw terminal“, chapter 00).

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Technical characteristics

Specifications DIN EN 60 664-1
DIN EN 61 984

Approvals

Inserts

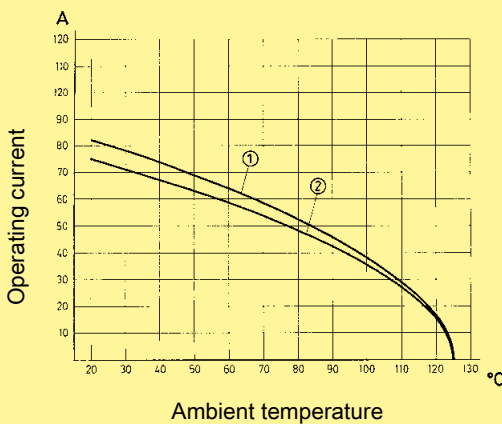
Number of contacts 4 / 8 + PE
 Electrical data acc. to EN 61 984
Power area **80 A 400 V 6 kV 3**
 Rated current 80 A
 Rated voltage 400 V
 Rated impulse voltage 6 kV
 Pollution degree 3
 Pollution degree 2 also 80 A 400/690 V 6 kV 2

Signal area **16 A 400 V 6 kV 3**
 Rated current 16 A
 Rated voltage 400 V
 Rated impulse voltage 6 kV
 Pollution degree 3
 Rated voltage acc. to UL/CSA 600 V / 600 V
 Insulation resistance ≥ 10¹⁰ Ω
 Material Polyamide
 Limiting temperatures -40 °C ... +125 °C
 Flammability acc. to UL 94 HB
 Mechanical working life - mating cycles ≥ 500

Current carrying capacity

The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the connector evenly, without exceeding the allowed maximum temperature.

Measuring and testing techniques according to DIN EN 60 512-5



Wire gauge: ① 16 mm²
② 10 mm²

Contacts

Power contacts

Material copper alloy
 Surface
 - hard-silver plated 3 μm Ag
 Contact resistance ≤ 0.3 mΩ
 Screw terminal
 - geometric wire gauge 1.5 ... 16 mm²
 - AWG 16 ... 6
 Tightening torque

mm ²	1.5	2.5	4	6	10	16
Nm	1.2	2	3	3	3	3

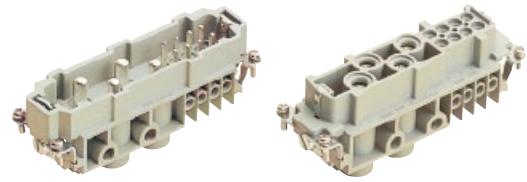
Signal contacts

Material copper alloy
 Surface
 - hard-silver plated 3 μm Ag
 Contact resistance ≤ 1 mΩ
 Screw terminal
 - geometric wire gauge 0.5 ... 2.5 mm²
 - AWG 20 ... 14
 Tightening torque 0.5 Nm
 Stripping length 7.5 mm

Hoods/Housings see chapter 30 / 31

Number of contacts

4/8 +



Identification	Part number		Drawing	Dimensions in mm
	Male insert (M)	Female insert (F)		
<p>Han® K 4/8 Screw terminal</p> <p>1.5 ... 16 mm²</p>	<p>09 38 012 2601</p>	<p>09 38 012 2701</p>	<p>1) Distance for contact max. 21 mm</p> <p>M F</p>	<p>42</p> <p>27</p> <p>11.2</p> <p>27.7</p> <p>44.2</p> <p>104</p> <p>19.5</p> <p>111</p> <p>34</p> <p>M3 x 10</p>

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Features

- Combination of power and signal area in one connector
- Axial screw termination for power area
- Screw termination for signal area

Assembly instructions see page 05.24

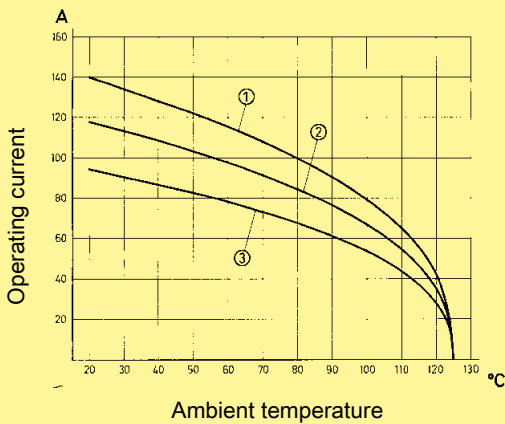
Hoods/Housings see chapter 30 / 31

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Current carrying capacity

The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the connector evenly, without exceeding the allowed maximum temperature.

Measuring and testing techniques according to DIN EN 60 512-5



Wire gauge:	①	35 mm ²
	②	25 mm ²
	③	16 mm ²

Technical characteristics

Specifications DIN EN 60 664-1
DIN EN 61 984

Approvals

Inserts

Number of contacts	6 / 6 + PE
Electrical data acc. to EN 61 984	
Power area	100 A 690 V 8 kV 3
Rated current	100 A
Rated voltage	690 V
Rated impulse voltage	8 kV
Pollution degree	3
Pollution degree 2 also	100 A 1000 V 8 kV 2

Signal area	16 A 400 V 6 kV 3
Rated current	16 A
Rated voltage	400 V
Rated impulse voltage	6 kV
Pollution degree	3
Rated voltage acc. to UL	600 V / 300 V
Rated voltage acc. to CSA	600 V / 600 V
Rated current acc. to CSA	100 A / 15 A
Insulation resistance	≥ 10 ¹⁰ Ω
Material	polycarbonate
Limiting temperatures	-40 °C ... +125 °C
Flammability acc. to UL 94	V 0
Mechanical working life - mating cycles	≥ 500

Contacts

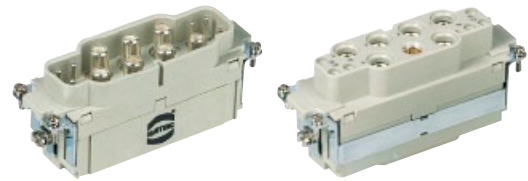
<u>Power contacts</u>									
Material	copper alloy								
Surface									
- hard-silver plated	3 μm Ag								
Contact resistance	≤ 0.5 mΩ								
Axial screw termination									
- geometric wire gauge	16 ... 35 mm ²								
- AWG	5 ... 2								
Max. insulation diameter	11.4 mm								
Tightening torque	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td>mm²</td> <td>16</td> <td>25</td> <td>35</td> </tr> <tr> <td>Nm</td> <td>6</td> <td>7</td> <td>8</td> </tr> </table>	mm ²	16	25	35	Nm	6	7	8
mm ²	16	25	35						
Nm	6	7	8						

Stripping length 13±1 mm

<u>Signal contacts</u>	
Material	copper alloy
Surface	
- hard-silver plated	3 μm Ag
Contact resistance	≤ 3 mΩ
Screw terminal	
- geometric wire gauge	0.2 ... 2.5 mm ²
- AWG	24 ... 13
Tightening torque	0.8 Nm
Stripping length	7.5 mm

Number of contacts

6/6 +



Identification	Part number		Drawing	Dimensions in mm
	Male insert (M)	Female insert (F)		
<p>Han® K 6/6 Axial screw terminal / Screw terminal</p> <p>16 ... 35 mm²</p>	09 38 012 2651	09 38 012 2751	<p>1) Distance for contact max. 21 mm</p> <p style="text-align: center;">M F</p> <p style="text-align: center;">Contact arrangement view from termination side</p>	

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Identification	Part number	Drawing	Dimensions in mm
<p>Hex key SW 4 for axial setscrew</p>			
<p>with grip</p>	09 99 000 0363		
<p>adapter 3/8"</p>	09 99 000 0370		

Features

- Axial screw termination for power area
- No signal contacts

Assembly instructions see page 05.25

Technical characteristics

Specifications DIN EN 60 664-1
DIN EN 61 984

Approvals

Inserts

Number of contacts	8 + PE
Electrical data acc. to EN 61 984	
Power area	100 A 690 V 8 kV 3
Rated current	100 A
Rated voltage	690 V
Rated impulse voltage	8 kV
Pollution degree	3
Pollution degree 2 also	100 A 1000 V 8 kV 2

Rated voltage acc. to UL	600 V
Rated current acc. to UL	82 A
Insulation resistance	≥ 10 ¹⁰ Ω
Material	polycarbonate
Limiting temperatures	-40 °C ... +125 °C
Flammability acc. to UL 94	V 0
Mechanical working life - mating cycles	≥ 500

Contacts

Material	copper alloy								
Surface									
- hard-silver plated	3 μm Ag								
Contact resistance	≤ 0.5 mΩ								
Axial screw termination									
- geometric wire gauge	10 ... 25 mm ²								
- AWG	7 ... 3								
Max. insulation diameter	11.4 mm								
Tightening torque	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td>mm²</td> <td>10</td> <td>16</td> <td>25</td> </tr> <tr> <td>Nm</td> <td>6</td> <td>6</td> <td>7</td> </tr> </table>	mm ²	10	16	25	Nm	6	6	7
mm ²	10	16	25						
Nm	6	6	7						
Stripping length	13±1 mm								

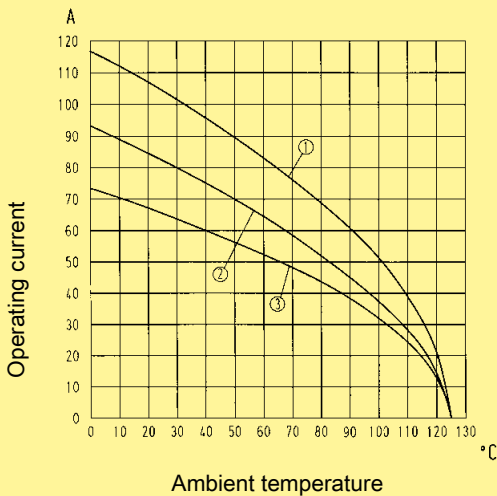
Hoods/Housings see chapter 30 / 31

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Current carrying capacity

The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the connector evenly, without exceeding the allowed maximum temperature.

Measuring and testing techniques according to DIN EN 60 512-5



Wire gauge: ① 25 mm²
② 16 mm²
③ 10 mm²

Number of contacts

8/0 +



Identification	Part number		Drawing	Dimensions in mm
	Male insert (M)	Female insert (F)		
Han® K 8/0 Axial screw terminal			<p>1) Distance for contact max. 21 mm</p> <p>M F</p> <p>Contact arrangement view from termination side</p>	
10 ... 25 mm ²	09 38 008 2653	09 38 008 2753		

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Identification	Part number	Drawing	Dimensions in mm
Hex key SW 4 for axial setscrew			
with grip	09 99 000 0363		
adapter 3/8"	09 99 000 0370		



Description

Depiction

Dimensions in mm

Step 1:

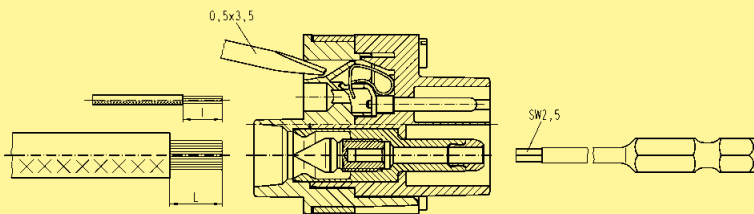
Signal contacts:

Push screwdriver (0.5 x 3.5) into rectangular chamber. Strip insulation from the wire with a length given on page 05.06 and insert the wire into the round contact chamber.

Power contacts:

Strip insulation from the wire with a length given on page 05.06 and insert the wire into the contact chamber until insulation is flush with contact.

Do not twist the strands of the wire.



I: Stripping length for signal contacts

L: Stripping length for power contacts

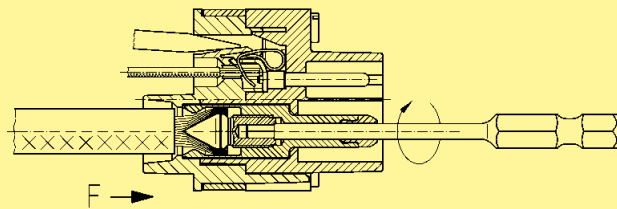
Step 2:

Signal contacts:

Push screwdriver (0.5 x 3.5) out of rectangular chamber.

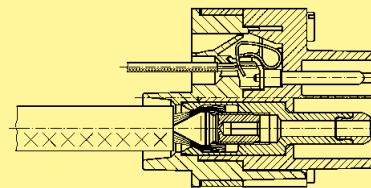
Power contacts:

Hold the wire in position and tighten by a hexagonal driver (SW 2.5) from the mating side with a tightening torque given on page 05.06.



Step 3:

Complete connection



Description

Depiction

Dimensions in mm

Step 1:

Signal contacts:

Strip insulation from the wire with a length given on page 05.10 and insert the wire into the rectangular contact chamber.

Power contacts:

Strip insulation from the wire with a length given on page 05.10 and insert the wire into the contact chamber until insulation is flush with contact.
Do not twist the strands of the wire.

Step 2:

Signal contacts:

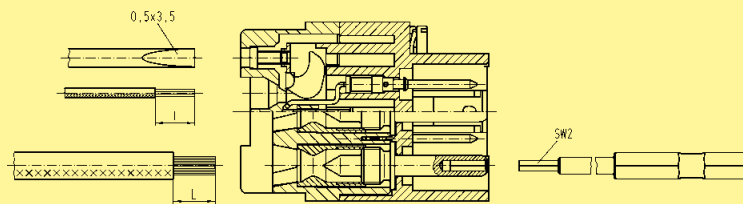
Tighten screw termination with screwdriver (0.5 x 3.5) with a tightening torque given on page 05.10.

Power contacts:

Hold the wire in position and tighten by a hexagonal driver (SW 2) from the mating side with a tightening torque given on page 05.10.

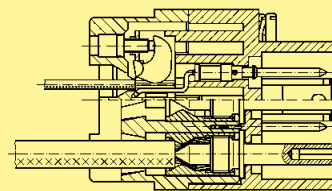
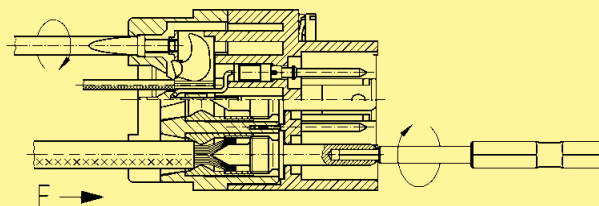
Step 3:

Complete connection



I: Stripping length for signal contacts

L: Stripping length for power contacts



Description

Depiction

Dimensions in mm

Step 1:

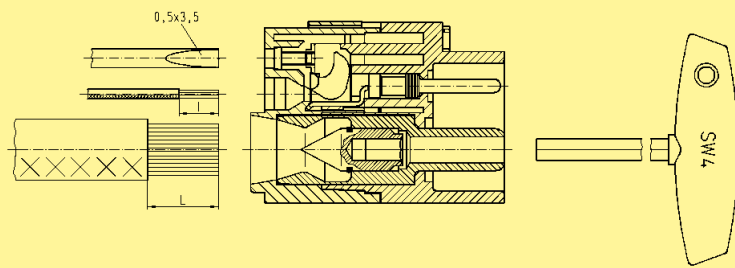
Signal contacts:

Strip insulation from the wire with a length given on page 05.18 and insert the wire into the rectangular contact chamber.

Power contacts:

Strip insulation from the wire with a length given on page 05.18 and insert the wire into the contact chamber until insulation is flush with contact.

Do not twist the strands of the wire.



I: Stripping length for signal contacts

L: Stripping length for power contacts

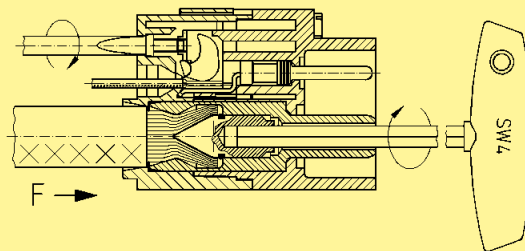
Step 2:

Signal contacts:

Tighten screw termination with screwdriver (0.5 x 3.5) with a tightening torque given on page 05.18.

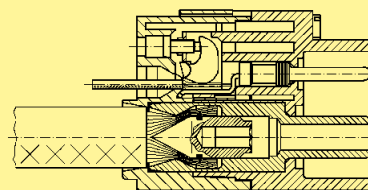
Power contacts:

Hold the wire in position and tighten by a hexagonal driver (SW 4) from the mating side with a tightening torque given on page 05.18.



Step 3:

Complete connection



Description

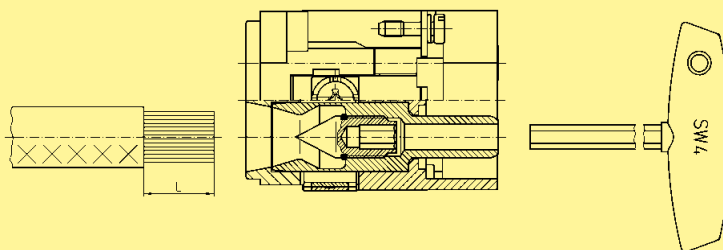
Depiction

Dimensions in mm

Step 1:

Strip insulation from the wire with a length given on page 05.20 and insert the wire into the contact chamber until insulation is flush with contact.

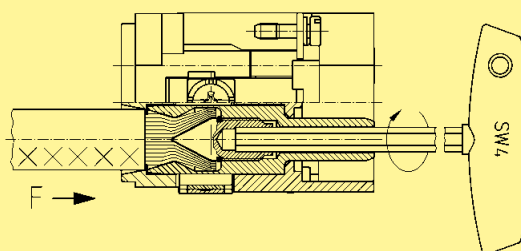
Do not twist the strands of the wire.



L: Stripping length for power contacts

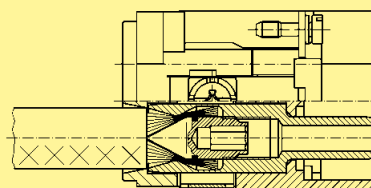
Step 2:

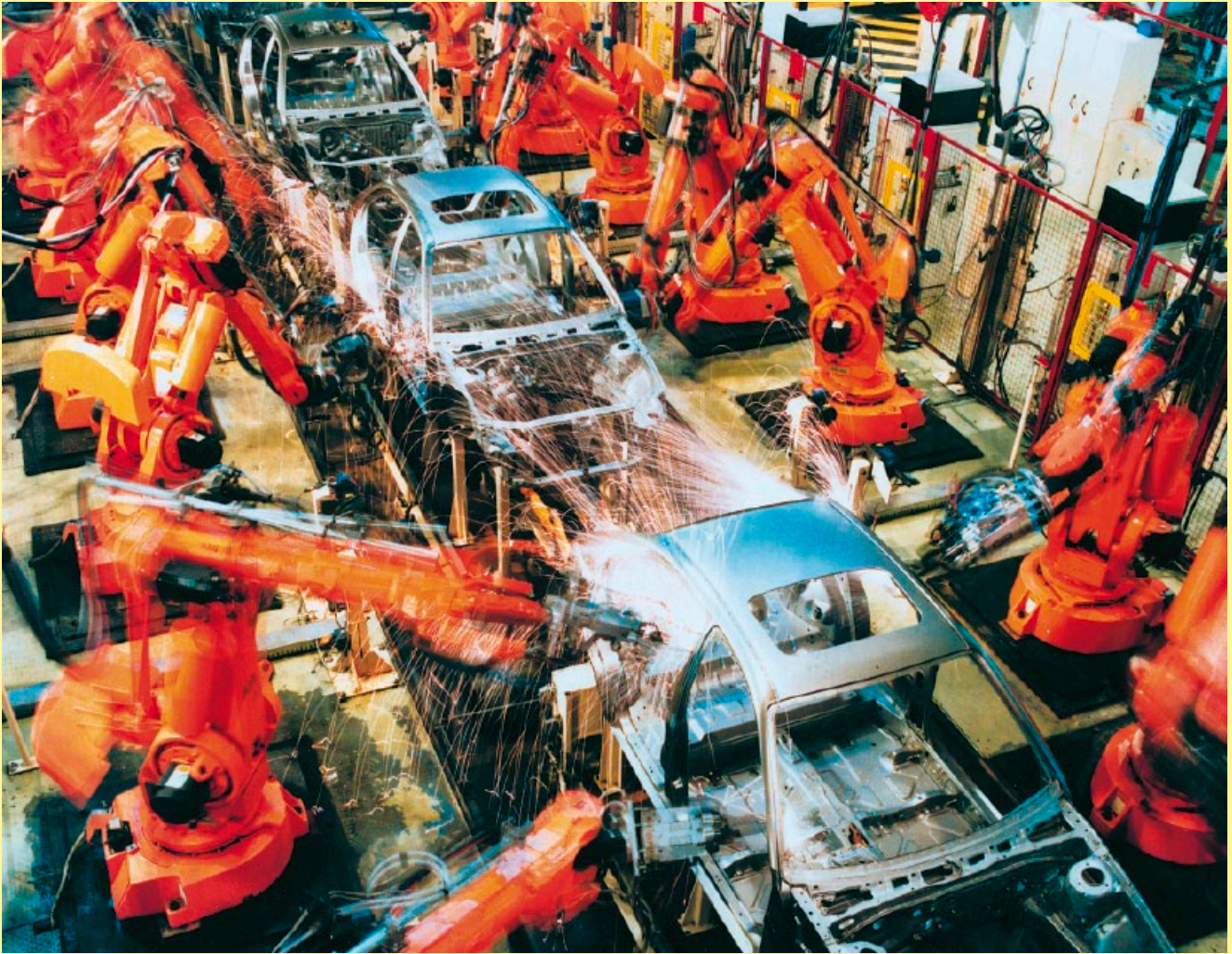
Hold the wire in position and tighten by a hexagonal driver (SW 4) from the mating side with a tightening torque given on page 05.20.



Step 3:

Complete connection





Welding robots in automotive production
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