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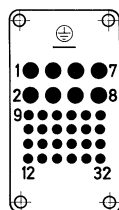
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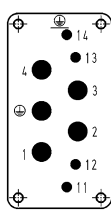
Han-Com

Size Description

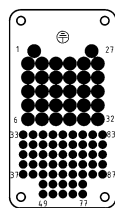
10 B



Han® K 8/24
Power 16 A / 230/400 V
Signal 10 A / 160 V

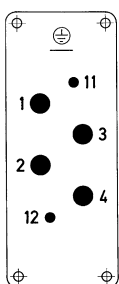


Han® K 4/4
63 A / 690 V
16 A / 230 V

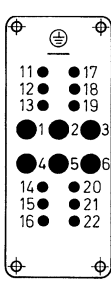


Han® K 32/55
10 A / 250 V
4 A / 50 V

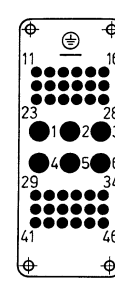
16 B



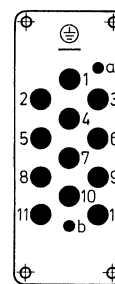
Han® K 4/0, 4/2
Power 80 A / 830 V
Power 16 A / 400 V
Signal 16 A / 400 V



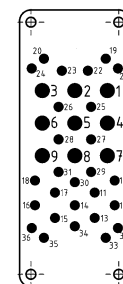
Han® K 6/12
40 A / 690 V
10 A / 230/400 V



Han® K 6/36
40 A / 690 V
10 A / 160 V

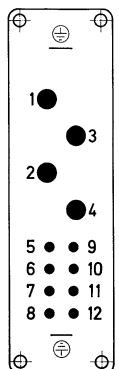


Han® K 12/2
40 A / 690 V
10 A / 250 V

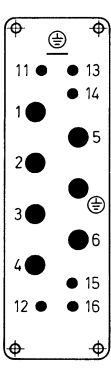


Han® K 9/9/18
40 A / 830 V
16 A / 830 V
10 A / 250 V

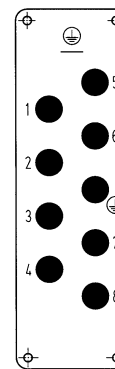
24 B



Han® K 4/8
Power 80 A / 400 V
Signal 16 A / 400 V



Han® K 6/6
100 A / 690 V
16 A / 400 V



Han® K 8/0
100 A / 690 V

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	crimp	6	16	400	crimp	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	crimp	12	10	230/400	crimp	16 B, 32 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
Han® K 9/9/18	9+9+PE	40/16	830	crimp	18	10	250	crimp	16 B, 32 B
Han® K 32/55	32+PE	10	250	crimp	55	4	50	crimp	10 B

Type identification

Han® K 6/12

Han®
 K
 6
 12

Industrial connectors Han®
 Series Han® K / Han-Com®
 Number of power contacts
 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:
 DIN VDE 0100-410/10.2018 § 414.4 and DIN EN 60204-1/06.2007 § 13.1.3

Accessories

Crimping tools chapter 90
 Cable clamps chapter 80
 Coding of hoods/housings chapter 80
 Label acc. to CSA-approval chapter 80
 Han-Snap® chapter 11
 PCB adapter chapter 80

Han-Com

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 and insert the wire into the round contact chamber.

Power contacts:
Strip insulation from the wire with a length and insert the wire into the contact chamber until insulation is flush with contact. Do not twist the strands of the wire.

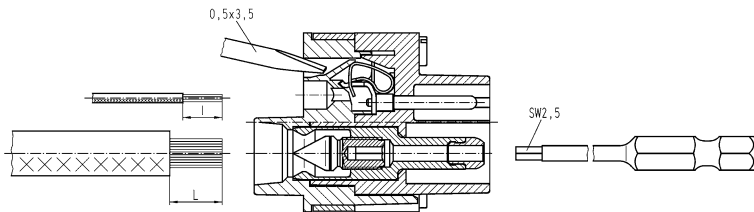
Step 2:

Signal contacts:
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.

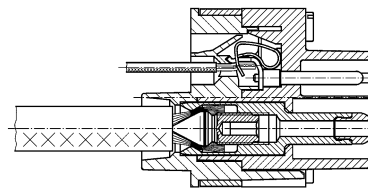
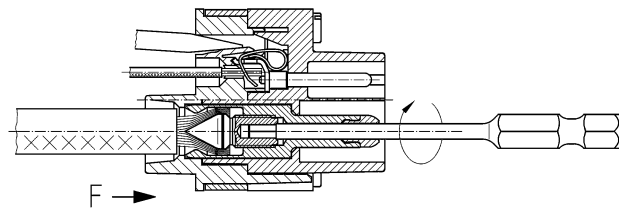
Step 3:

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 and insert the wire into the rectangular contact chamber.

Power contacts:

Strip insulation from the wire with a length 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:

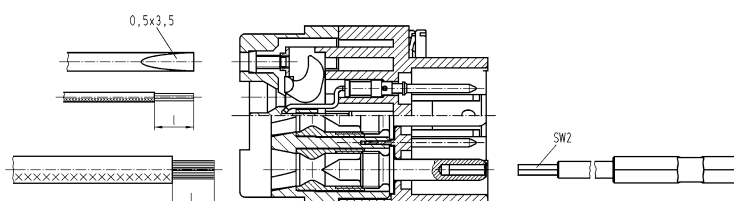
Tighten screw termination with screwdriver (0.5 x 3.5) with a tightening torque.

Power contacts:

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

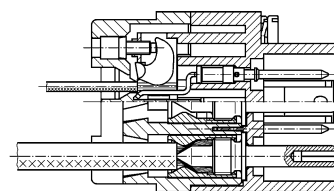
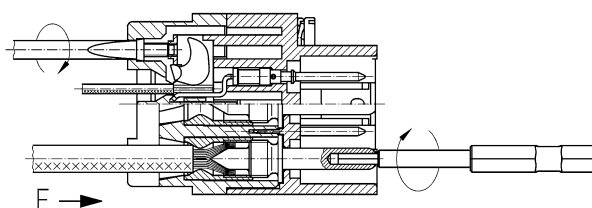
Step 3:

Complete connection



I: Stripping length for signal contacts

L: Stripping length for power contacts



Han-
Com

Description

Depiction

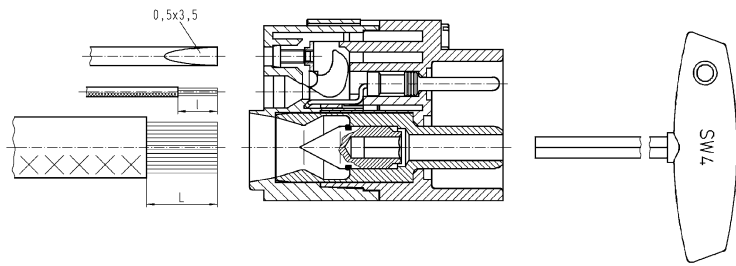
Dimensions in mm

Step 1:

Signal contacts:
Strip insulation from the wire with a length
and insert the wire into the rectangular
contact chamber.

Power contacts:

Strip insulation from the wire with a length
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

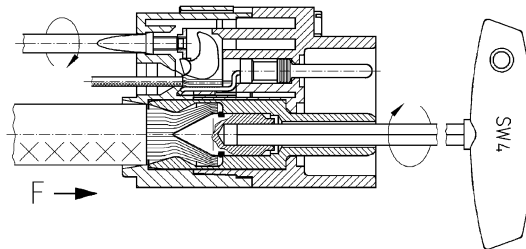
L: Stripping length for power contacts

Step 2:

Signal contacts:
Tighten screw termination with screwdriver
(0.5 x 3.5) with a tightening torque.

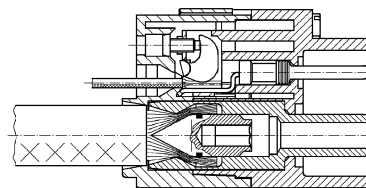
Power contacts:

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



Step 3:

Complete connection



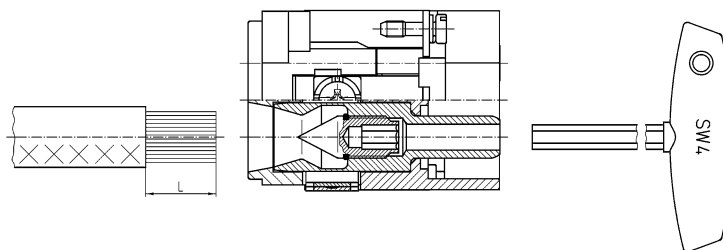
Description

Depiction

Dimensions in mm

Step 1:

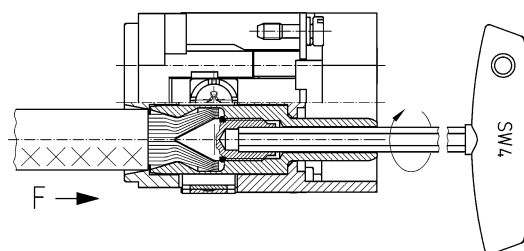
Strip insulation from the wire with a length L and insert the wire into the contact chamber until insulation is flush with contact. Do not twist the strands of the wire.



L: Stripping length for power contacts

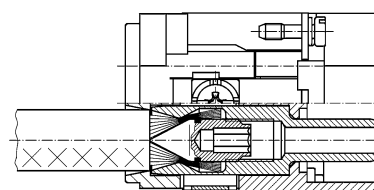
Step 2:

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



Step 3:

Complete connection



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

Features

- Combination of signal and power in one connector
- Axial screw termination for power area
- Cage clamp termination for signal area
- Same range of cross-section for PE contacts and power contacts

Technical characteristics

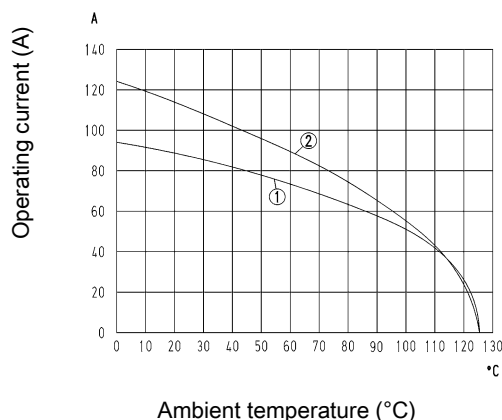
Number of contacts	4
Additional contacts	+ 4 additional signal contacts
Rated current	63 A
Rated voltage	690 V
Rated impulse voltage	8 kV
Pollution degree	3
Rated current (signal)	16 A
Rated voltage (signal)	250 V
Rated impulse voltage (signal)	4 kV
Pollution degree (signal)	3
Rated current acc. to UL	63 A
Rated current acc. to UL (signal)	16 A
Rated current acc. to CSA	63 A
Rated current acc. to CSA (signal)	16 A
Rated voltage acc. to UL	600 V
Rated voltage acc. to UL (signal)	230 V
Rated voltage acc. to CSA	600 V
Rated voltage acc. to CSA (signal)	230 V
Insulation resistance	$>10^{10} \Omega$
Contact resistance	$\leq 0.5 \text{ m}\Omega$
Contact resistance, signal area	$\leq 3 \text{ m}\Omega$
Limiting temperature	-40 ... +125 °C
Mating cycles	≥ 500
Wire outer diameter	$\leq 8.9 \text{ mm}, \leq 11 \text{ mm @ } 22 \text{ mm}^2$
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant with exemption

Derating

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 acc. to IEC 60512-5-2



- ① Conductor cross-section 16 mm²
② Conductor cross-section 22 mm²

Specifications and approvals

EN 60664-1
IEC 61984
UL 1977 ECBT2.E235076
CSA-C22.2 No. 182.3 ECBT8.E235076
DNV GL

Details

Hoods/Housings see chapter Han 31

Hex key (A/F 2.5) see chapter Han 90

Remarks on the axial screw technique

The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

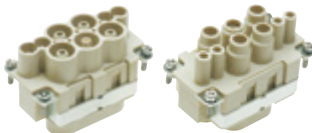
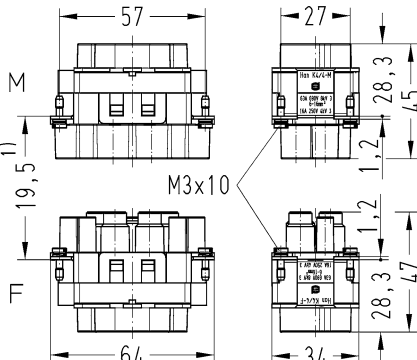
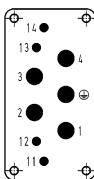
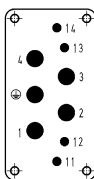


Number of contacts

4+

63 A 690 V 8 kV 3
16 A 250 V 4 kV 3
+ 4 additional signal contacts

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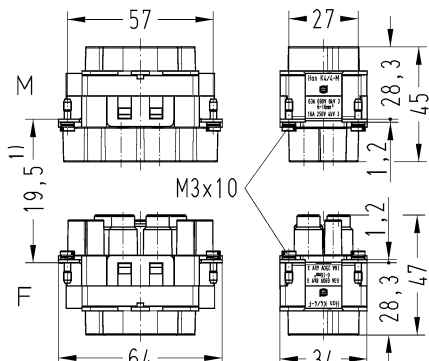
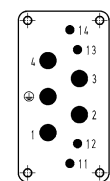
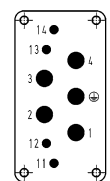
Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)																		
		Male	Female																			
Han-Com®, Han® K 4/4, Axial screw termination / cage-clamp termination, Contact surface: Silver plated  Finger safe	6 ... 16, 0.14 ... 2.5 Signal	09 38 008 2601	09 38 008 2701	 1) distance for contact max. 21 mm																		
Han-Com®, Han® K 4/4, Axial screw termination / cage-clamp termination, Contact surface: Silver plated  Not finger safe	6 ... 16, 0.14 ... 2.5 Signal	09 38 008 2611		 M F Contact arrangement (view from termination side) <table><tr><th colspan="3">Power contacts</th></tr><tr><th>Conductor cross-section</th><th>Tightening torque</th><th>Stripping length</th></tr><tr><td>6 mm²</td><td>2 Nm</td><td>11 ... 12 mm</td></tr><tr><td>10 mm²</td><td>3 Nm</td><td>11 ... 12 mm</td></tr><tr><td>16 mm²</td><td>4 Nm</td><td>11 ... 12 mm</td></tr><tr><td>22 mm²</td><td>4 Nm</td><td>11 ... 12 mm</td></tr></table> Signal contacts : Stripping length 7 ... 9 mm	Power contacts			Conductor cross-section	Tightening torque	Stripping length	6 mm²	2 Nm	11 ... 12 mm	10 mm²	3 Nm	11 ... 12 mm	16 mm²	4 Nm	11 ... 12 mm	22 mm²	4 Nm	11 ... 12 mm
Power contacts																						
Conductor cross-section	Tightening torque	Stripping length																				
6 mm²	2 Nm	11 ... 12 mm																				
10 mm²	3 Nm	11 ... 12 mm																				
16 mm²	4 Nm	11 ... 12 mm																				
22 mm²	4 Nm	11 ... 12 mm																				



Number of contacts

4+

63 A 690 V 8 kV 3
16 A 250 V 4 kV 3
+ 4 additional signal contacts

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)																		
		Male	Female																			
Han-Com®, Han® K 4/4, Axial screw termination / cage-clamp termination, Contact surface: Silver plated  Finger safe	10 ... 22, 0.14 ... 2.5 Signal	09 38 008 2602	09 38 008 2702	 1) distance for contact max. 21 mm																		
Han-Com®, Han® K 4/4, Axial screw termination / cage-clamp termination, Contact surface: Silver plated  Not finger safe	10 ... 22, 0.14 ... 2.5 Signal	09 38 008 2612		  M F Contact arrangement (view from termination side) <table><tr><th colspan="3">Power contacts</th></tr><tr><th>Conductor cross-section</th><th>Tightening torque</th><th>Stripping length</th></tr><tr><td>6 mm²</td><td>2 Nm</td><td>11 ... 12 mm</td></tr><tr><td>10 mm²</td><td>3 Nm</td><td>11 ... 12 mm</td></tr><tr><td>16 mm²</td><td>4 Nm</td><td>11 ... 12 mm</td></tr><tr><td>22 mm²</td><td>4 Nm</td><td>11 ... 12 mm</td></tr></table> Signal contacts : Stripping length 7 ... 9 mm	Power contacts			Conductor cross-section	Tightening torque	Stripping length	6 mm²	2 Nm	11 ... 12 mm	10 mm²	3 Nm	11 ... 12 mm	16 mm²	4 Nm	11 ... 12 mm	22 mm²	4 Nm	11 ... 12 mm
Power contacts																						
Conductor cross-section	Tightening torque	Stripping length																				
6 mm²	2 Nm	11 ... 12 mm																				
10 mm²	3 Nm	11 ... 12 mm																				
16 mm²	4 Nm	11 ... 12 mm																				
22 mm²	4 Nm	11 ... 12 mm																				

Features

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

Technical characteristics

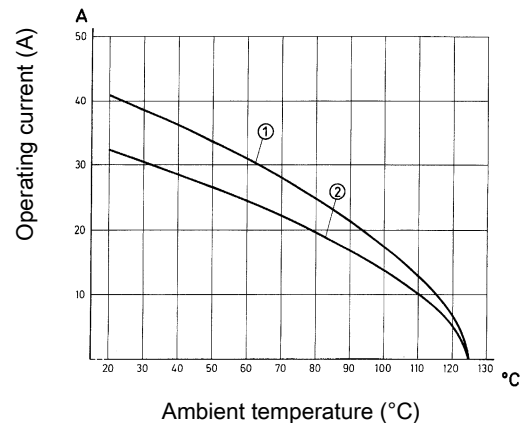
Number of contacts	8
Additional contacts	+ 24 additional signal contacts
Rated current	16 A
Rated voltage conductor-earth	230 V
Rated voltage conductor-conductor	400 V
Rated impulse voltage	4 kV
Pollution degree	3
Rated current (signal)	10 A
Rated voltage (signal)	160 V
Rated impulse voltage (signal)	2.5 kV
Pollution degree (signal)	3
Rated current acc. to UL	16 A
Rated current acc. to UL (signal)	10 A
Rated current acc. to CSA	16 A
Rated current acc. to CSA (signal)	10 A
Rated voltage acc. to UL	600 V
Rated voltage acc. to UL (signal)	600 V
Rated voltage acc. to CSA	300 V
Rated voltage acc. to CSA (signal)	300 V
Insulation resistance	$>10^{10} \Omega$
Contact resistance	$\leq 3 \text{ m}\Omega, \leq 1 \text{ m}\Omega$
Limiting temperature	$-40 \dots +125 \text{ }^{\circ}\text{C}$
Mating cycles	≥ 500
Material (insert)	Polyamide (PA)
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	HB
RoHS	compliant, compliant with exemption

Derating

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 acc. to IEC 60512-5-2



- ① Conductor cross-section 4 mm²
 ② Conductor cross-section 2.5 mm²

Specifications and approvals

EN 60664-1
 IEC 61984
 UL 1977 ECBT2.E235076
 CSA-C22.2 No. 182.3 ECBT8.E235076
 DNV GL

Details

Hoods/Housings see chapter Han 31

Contact resistance Han D® crimp contact: $\leq 3 \text{ m}\Omega$

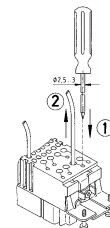
Contact resistance Han E® crimp contact: $\leq 1 \text{ m}\Omega$

Crimping tools see chapter Han 90

Remarks on the crimp technique

The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

Removal of power contacts (Han E®)



- ① Push cross-slotted screw driver (size 0) in the relevant hole of the contact until it reaches the bottom
 ② Withdraw the crimped contact from the insert

Number of contacts

8+

16 A 230/400 V 4 kV 3
 10 A 160 V 2.5 kV 3
 + 24 additional signal contacts

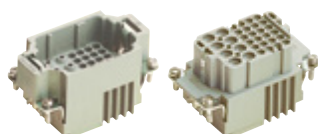
Han-Com

Identification

Conductor cross-section (mm²)

Part number
Male FemaleDrawing
(dimensions in mm)

Han-Com®,
 Han® K 8/24,
 Crimp termination

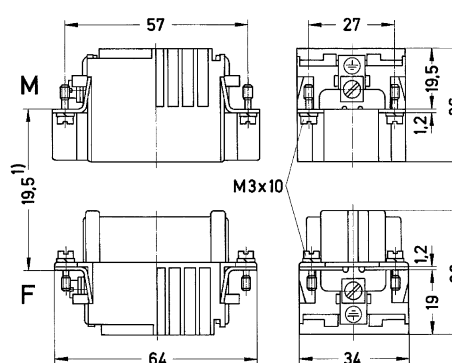


Please order crimp contacts separately.

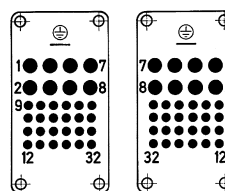
0.5 ... 4,
 0.14 ... 2.5
 Signal

09 38 032 3001

09 38 032 3101



1) distance for contact max. 21 mm



Contact arrangement (view from termination side)

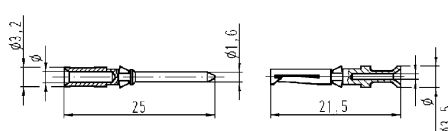
Han D®,
 Crimp contact,
 Contact surface:
 Silver plated



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



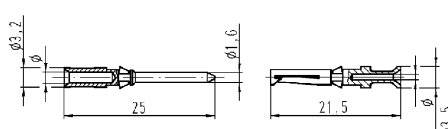
Han D®,
 Crimp contact,
 Contact surface:
 Gold plated



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



Conductor cross-section	Ø	Stripping length
0.14-0.37 mm² AWG 26-22	0.9 mm	8 mm
0.5 mm² AWG 20	1.1 mm	8 mm
0.75 mm² AWG 18	1.3 mm	8 mm
1 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

Conductor cross-section	Ø	Stripping length
0.14-0.37 mm² AWG 26-22	0.9 mm	8 mm
0.5 mm² AWG 20	1.1 mm	8 mm
0.75 mm² AWG 18	1.3 mm	8 mm
1 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

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)																																				
		Male	Female																																					
Han E®, Crimp contact, Contact surface: 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	<table><tr><th>Conductor cross-section</th><th>Identification</th></tr><tr><td>0.14-0.37 mm² AWG 26-22</td><td>no groove</td></tr><tr><td>0.5 mm² AWG 20</td><td>no groove</td></tr><tr><td>0.75 mm² AWG 18</td><td>1 groove*</td></tr><tr><td>1 mm² AWG 18</td><td>1 groove</td></tr><tr><td>1.5 mm² AWG 16</td><td>2 groove</td></tr><tr><td>2.5 mm² AWG 14</td><td>3 groove</td></tr><tr><td>3 mm² AWG 12</td><td>wide groove</td></tr><tr><td>4 mm² AWG 12</td><td>no groove</td></tr></table> * on the back crimp collar Stripping length 7.5 mm <table><tr><th>Conductor cross-section</th><th>Identification</th></tr><tr><td>0.14-0.37 mm² AWG 26-22</td><td>no groove</td></tr><tr><td>0.5 mm² AWG 20</td><td>no groove</td></tr><tr><td>0.75 mm² AWG 18</td><td>1 groove*</td></tr><tr><td>1 mm² AWG 18</td><td>1 groove</td></tr><tr><td>1.5 mm² AWG 16</td><td>2 groove</td></tr><tr><td>2.5 mm² AWG 14</td><td>3 groove</td></tr><tr><td>3 mm² AWG 12</td><td>wide groove</td></tr><tr><td>4 mm² AWG 12</td><td>no groove</td></tr></table> * on the back crimp collar Stripping length 7.5 mm	Conductor cross-section	Identification	0.14-0.37 mm² AWG 26-22	no groove	0.5 mm² AWG 20	no groove	0.75 mm² AWG 18	1 groove*	1 mm² AWG 18	1 groove	1.5 mm² AWG 16	2 groove	2.5 mm² AWG 14	3 groove	3 mm² AWG 12	wide groove	4 mm² AWG 12	no groove	Conductor cross-section	Identification	0.14-0.37 mm² AWG 26-22	no groove	0.5 mm² AWG 20	no groove	0.75 mm² AWG 18	1 groove*	1 mm² AWG 18	1 groove	1.5 mm² AWG 16	2 groove	2.5 mm² AWG 14	3 groove	3 mm² AWG 12	wide groove	4 mm² AWG 12	no groove
Conductor cross-section	Identification																																							
0.14-0.37 mm² AWG 26-22	no groove																																							
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Conductor cross-section	Identification																																							
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2.5 mm² AWG 14	3 groove																																							
3 mm² AWG 12	wide groove																																							
4 mm² AWG 12	no groove																																							
Han E®, Crimp contact, Contact surface: 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><tr><th>Conductor cross-section</th><th>Identification</th></tr><tr><td>0.14-0.37 mm² AWG 26-22</td><td>no groove</td></tr><tr><td>0.5 mm² AWG 20</td><td>no groove</td></tr><tr><td>0.75 mm² AWG 18</td><td>1 groove*</td></tr><tr><td>1 mm² AWG 18</td><td>1 groove</td></tr><tr><td>1.5 mm² AWG 16</td><td>2 groove</td></tr><tr><td>2.5 mm² AWG 14</td><td>3 groove</td></tr><tr><td>3 mm² AWG 12</td><td>wide groove</td></tr><tr><td>4 mm² AWG 12</td><td>no groove</td></tr></table> * on the back crimp collar Stripping length 7.5 mm	Conductor cross-section	Identification	0.14-0.37 mm² AWG 26-22	no groove	0.5 mm² AWG 20	no groove	0.75 mm² AWG 18	1 groove*	1 mm² AWG 18	1 groove	1.5 mm² AWG 16	2 groove	2.5 mm² AWG 14	3 groove	3 mm² AWG 12	wide groove	4 mm² AWG 12	no groove																		
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3 mm² AWG 12	wide groove																																							
4 mm² AWG 12	no groove																																							
Han E®, Crimp contact, Relay contact, Contact surface: Silver plated	0.75 ... 1 1.5 2.5	09 33 000 6109 09 33 000 6110 09 33 000 6111		<table><tr><th>Conductor cross-section</th><th>Ø</th><th>Stripping length</th></tr><tr><td>0.75-1 mm² AWG 18</td><td>1.45 mm</td><td>7.5 mm</td></tr><tr><td>1.5 mm² AWG 16</td><td>1.75 mm</td><td>7.5 mm</td></tr><tr><td>2.5 mm² AWG 14</td><td>2.25 mm</td><td>7.5 mm</td></tr></table>	Conductor cross-section	Ø	Stripping length	0.75-1 mm² AWG 18	1.45 mm	7.5 mm	1.5 mm² AWG 16	1.75 mm	7.5 mm	2.5 mm² AWG 14	2.25 mm	7.5 mm																								
Conductor cross-section	Ø	Stripping length																																						
0.75-1 mm² AWG 18	1.45 mm	7.5 mm																																						
1.5 mm² AWG 16	1.75 mm	7.5 mm																																						
2.5 mm² AWG 14	2.25 mm	7.5 mm																																						
FO contact, for 1 mm plastic fibre		20 10 001 3211	20 10 001 3221	20 10 001 3211 + 20 10 001 3221																																				

Features

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

Technical characteristics

Number of contacts	32
Additional contacts	+ 55 additional signal contacts
Rated current	10 A
Rated voltage	250 V
Rated impulse voltage	4 kV
Pollution degree	2
Rated current (signal)	4 A
Rated voltage (signal)	50 V
Rated impulse voltage (signal)	0.8 kV
Pollution degree (signal)	2
Rated voltage acc. to UL	600 V
Rated voltage acc. to UL (signal)	30 V
Insulation resistance	$>10^{10} \Omega$
Contact resistance	$\leq 3 \text{ m}\Omega, \leq 10 \text{ m}\Omega$
Limiting temperature	-40 ... +125 °C
Mating cycles	≥ 500
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption

Specifications and approvals

EN 60664-1
IEC 61984
UL 1977 ECBT2.E235076
CSA-C22.2 No. 182.3 ECBT8.E235076

Details

Contact resistance Han D® crimp contact: $\leq 3 \text{ m}\Omega$

Contact resistance D-Sub crimp contact: $\leq 10 \text{ m}\Omega$

Crimping tools see chapter Han 90

Remarks on the crimp technique

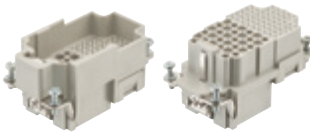
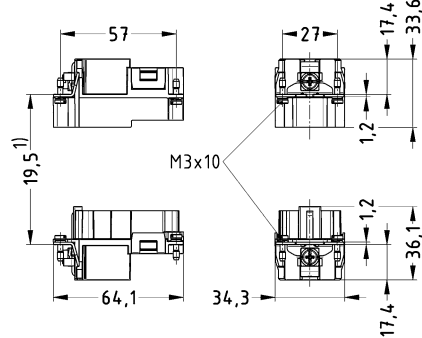
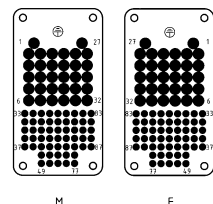
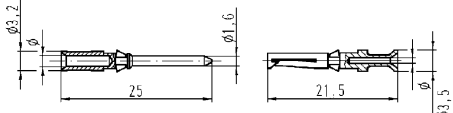
The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

Number of contacts

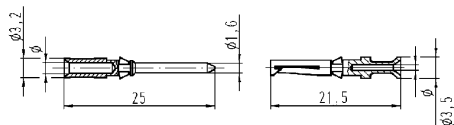
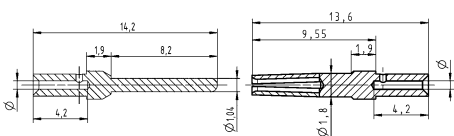
32+

10 A 250 V 4 kV 2
 4 A 50 V 0.8 kV 2
 + 55 additional signal contacts

Han-Com

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)																												
		Male	Female																													
Han-Com®, Han® K 32/55, Crimp termination  Please order crimp contacts separately.	0.14 ... 2.5, 0.09 ... 0.52 Signal	09 38 087 3001	09 38 087 3101	 1) distance for contact max. 21 mm  Contact arrangement (view from termination side)  <table><thead><tr><th colspan="2">Conductor cross-section</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 mm</td><td>8 mm</td></tr><tr><td>0.5 mm²</td><td>AWG 20</td><td>1.1 mm</td><td>8 mm</td></tr><tr><td>0.75 mm²</td><td>AWG 18</td><td>1.3 mm</td><td>8 mm</td></tr><tr><td>1 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></tbody></table>	Conductor cross-section		ø	Stripping length	0.14-0.37 mm²	AWG 26-22	0.9 mm	8 mm	0.5 mm²	AWG 20	1.1 mm	8 mm	0.75 mm²	AWG 18	1.3 mm	8 mm	1 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
Conductor cross-section		ø	Stripping length																													
0.14-0.37 mm²	AWG 26-22	0.9 mm	8 mm																													
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1.5 mm²	AWG 16	1.75 mm	8 mm																													
2.5 mm²	AWG 14	2.25 mm	6 mm																													
Han D®, Crimp contact, Contact surface: 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																													

Han-Com

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)
		Male	Female	
Han D®, Crimp contact, Contact surface: 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	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	
D-Sub, Standard, Crimp contact 	0.09 ... 0.25	09 67 000 7576	09 67 000 7476	
	0.13 ... 0.33	09 67 000 5576	09 67 000 5476	
	0.25 ... 0.52	09 67 000 8576	09 67 000 8476	

Conductor cross-section	Ø	Stripping length
0.14-0.37 mm² AWG 26-22	0.9 mm	8 mm
0.5 mm² AWG 20	1.1 mm	8 mm
0.75 mm² AWG 18	1.3 mm	8 mm
1 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

Conductor cross-section	Ø	Stripping length
0.09-0.25 mm²	0.64 mm	4 mm
0.13-0.33 mm²	0.88 mm	4 mm
0.25-0.52 mm²	1.13 mm	4 mm
0.33-0.82 mm²	1.34 mm	4 mm

for stranded wire according IEC 60228 Class 5

Features

- Screw termination
- No signal contacts

Technical characteristics

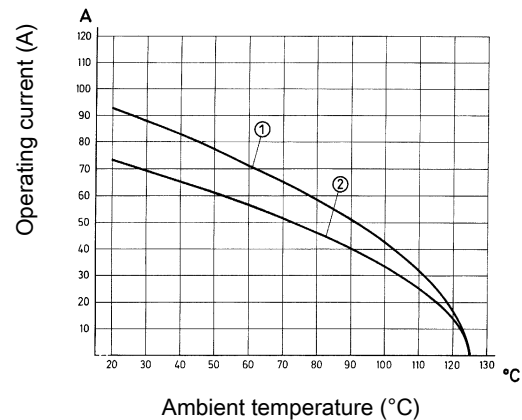
Number of contacts	4
Rated current	80 A
Rated voltage	830 V
Rated impulse voltage	8 kV
Pollution degree	3
Rated current acc. to UL	80 A
Rated current acc. to CSA	80 A
Rated voltage acc. to UL	600 V
Rated voltage acc. to CSA	300 V
Insulation resistance	$>10^{10} \Omega$
Contact resistance	$\leq 0.3 \text{ m}\Omega$
Limiting temperature	-40 ... +125 °C
Mating cycles	≥ 500
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant with exemption

Derating

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 acc. to IEC 60512-5-2



- ① Conductor cross-section 16 mm²
② Conductor cross-section 10 mm²

Specifications and approvals

EN 60664-1
IEC 61984
UL 1977 ECBT2.E235076
CSA-C22.2 No. 182.3 ECBT8.E235076
DNV GL

Details

Hoods/Housings see chapter Han 31

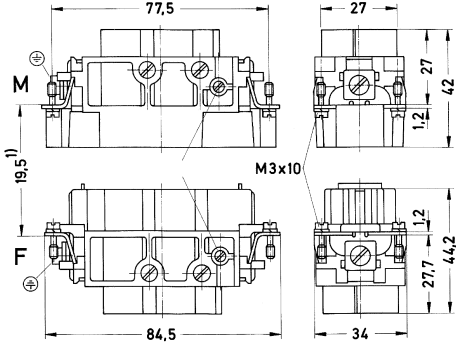
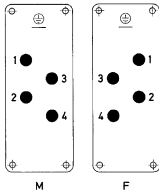
In accordance with the appropriate regulations a wire-end sleeve has to be used at clamps without wire protection (see "screw terminal", chapter Han 00).



Number of contacts

4+

80 A 830 V 8 kV 3

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)																								
		Male	Female																									
Han-Com®, Han® K 4/0, Screw termination, Contact surface: Silver plated 	1.5 ... 16	09 38 006 2611	09 38 006 2711	  Contact arrangement (view from termination side) <table><tr><th colspan="3">Power contacts</th></tr><tr><th>Conductor cross-section</th><th>Tightening torque</th><th>Stripping length</th></tr><tr><td>1.5 mm²</td><td>1.2 Nm</td><td>14 mm</td></tr><tr><td>2.5 mm²</td><td>2 Nm</td><td>14 mm</td></tr><tr><td>4 mm²</td><td>3 Nm</td><td>14 mm</td></tr><tr><td>6 mm²</td><td>3 Nm</td><td>14 mm</td></tr><tr><td>10 mm²</td><td>3 Nm</td><td>14 mm</td></tr><tr><td>16 mm²</td><td>3 Nm</td><td>14 mm</td></tr></table>	Power contacts			Conductor cross-section	Tightening torque	Stripping length	1.5 mm²	1.2 Nm	14 mm	2.5 mm²	2 Nm	14 mm	4 mm²	3 Nm	14 mm	6 mm²	3 Nm	14 mm	10 mm²	3 Nm	14 mm	16 mm²	3 Nm	14 mm
Power contacts																												
Conductor cross-section	Tightening torque	Stripping length																										
1.5 mm²	1.2 Nm	14 mm																										
2.5 mm²	2 Nm	14 mm																										
4 mm²	3 Nm	14 mm																										
6 mm²	3 Nm	14 mm																										
10 mm²	3 Nm	14 mm																										
16 mm²	3 Nm	14 mm																										

Features

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

Technical characteristics

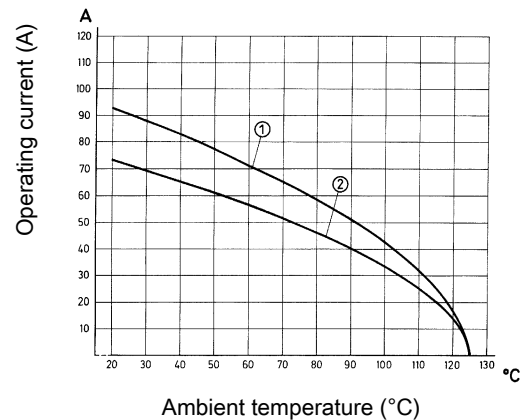
Number of contacts	4
Additional contacts	+ 2 additional signal contacts
Rated current	80 A
Rated voltage	830 V
Rated impulse voltage	8 kV
Pollution degree	3
Rated current (signal)	16 A
Rated voltage (signal)	400 V
Rated impulse voltage (signal)	6 kV
Pollution degree (signal)	3
Rated current acc. to UL	80 A
Rated current acc. to UL (signal)	16 A
Rated current acc. to CSA	80 A
Rated current acc. to CSA (signal)	16 A
Rated voltage acc. to UL	600 V
Rated voltage acc. to UL (signal)	600 V
Rated voltage acc. to CSA	300 V
Rated voltage acc. to CSA (signal)	300 V
Insulation resistance	$>10^{10} \Omega$
Contact resistance	$\leq 0.3 \text{ m}\Omega$
Contact resistance, signal area	$\leq 1 \text{ m}\Omega$
Limiting temperature	-40 ... +125 °C
Mating cycles	≥ 500
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant with exemption

Derating

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 acc. to IEC 60512-5-2



- ① Conductor cross-section 16 mm²
- ② Conductor cross-section 10 mm²

Specifications and approvals

EN 60664-1
IEC 61984
UL 1977 ECBT2.E235076
CSA-C22.2 No. 182.3 ECBT8.E235076
DNV GL

Details

Hoods/Housings see chapter Han 31

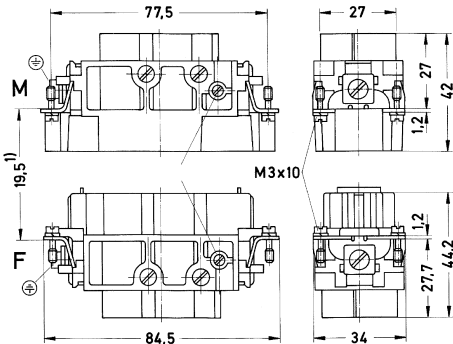
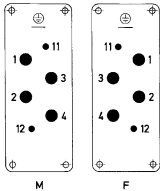
In accordance with the appropriate regulations a wire-end sleeve has to be used at clamps without wire protection (see "screw terminal", chapter Han 00).



Number of contacts

4+

80 A 830 V 8 kV 3
16 A 400 V 6 kV 3
+ 2 additional signal contacts

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)																								
		Male	Female																									
Han-Com®, Han® K 4/2, Screw termination, Contact surface: Silver plated 	1.5 ... 16, 0.5 ... 2.5 Signal	09 38 006 2601	09 38 006 2701	  Contact arrangement (view from termination side) <table><thead><tr><th colspan="3">Power contacts</th></tr><tr><th>Conductor cross-section</th><th>Tightening torque</th><th>Stripping length</th></tr></thead><tbody><tr><td>1.5 mm²</td><td>1.2 Nm</td><td>14 mm</td></tr><tr><td>2.5 mm²</td><td>2 Nm</td><td>14 mm</td></tr><tr><td>4 mm²</td><td>3 Nm</td><td>14 mm</td></tr><tr><td>6 mm²</td><td>3 Nm</td><td>14 mm</td></tr><tr><td>10 mm²</td><td>3 Nm</td><td>14 mm</td></tr><tr><td>16 mm²</td><td>3 Nm</td><td>14 mm</td></tr></tbody></table> Signal contacts : Stripping length 7.5 mm Tightening torque 0.5 Nm	Power contacts			Conductor cross-section	Tightening torque	Stripping length	1.5 mm²	1.2 Nm	14 mm	2.5 mm²	2 Nm	14 mm	4 mm²	3 Nm	14 mm	6 mm²	3 Nm	14 mm	10 mm²	3 Nm	14 mm	16 mm²	3 Nm	14 mm
Power contacts																												
Conductor cross-section	Tightening torque	Stripping length																										
1.5 mm²	1.2 Nm	14 mm																										
2.5 mm²	2 Nm	14 mm																										
4 mm²	3 Nm	14 mm																										
6 mm²	3 Nm	14 mm																										
10 mm²	3 Nm	14 mm																										
16 mm²	3 Nm	14 mm																										

Features

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

Technical characteristics

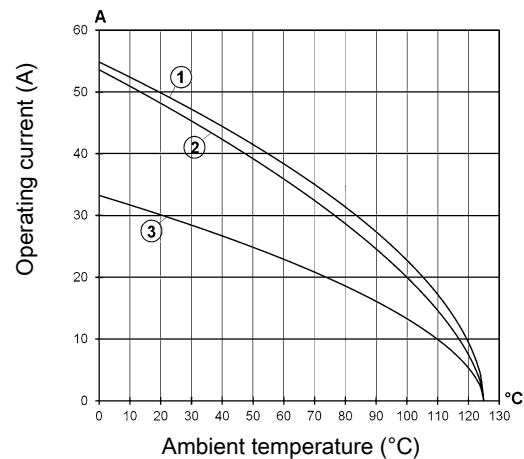
Number of contacts	6
Additional contacts	+ 12 additional signal contacts
Rated current	40 A
Rated voltage	690 V
Rated impulse voltage	8 kV
Pollution degree	3
Rated current (signal)	10 A
Rated voltage conductor-earth (signal)	230 V
Rated voltage conductor-conductor (signal)	400 V
Rated impulse voltage (signal)	4 kV
Pollution degree (signal)	3
Insulation resistance	$>10^{10} \Omega$
Contact resistance	$\leq 1 \text{ m}\Omega, \leq 3 \text{ m}\Omega$
Limiting temperature	-40 ... +125 °C
Mating cycles	≥ 500
Wire outer diameter	$\leq 5 \text{ mm}$
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material (accessories)	Thermoplastic
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption

Derating

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 acc. to IEC 60512-5-2



- ① Conductor cross-section 6 mm²
- ② Conductor cross-section 4 mm²
- ③ Conductor cross-section 2.5 mm²

Specifications and approvals

EN 60664-1
IEC 61984
DNV GL

Details

Contact resistance Han® C crimp contact: $\leq 1 \text{ m}\Omega$

Contact resistance Han D® crimp contact: $\leq 3 \text{ m}\Omega$

Crimping tools see chapter Han 90

Remarks on the crimp technique

The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

Number of contacts

6+

40 A 690 V 8 kV 3
10 A 230/400 V 4 kV 3
+ 12 additional signal contacts

Han-Com

Identification

Conductor cross-section (mm²)

Part number
Male Female

Drawing (dimensions in mm)

Han-Com®,
Han® K 6/12,
Crimp termination

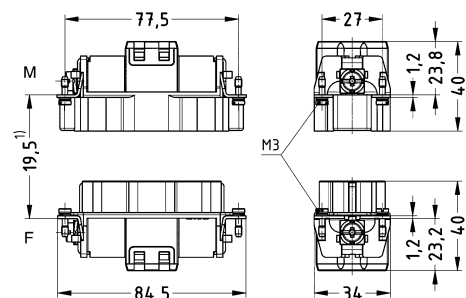


Please order crimp contacts separately.
Please order coding pins separately.

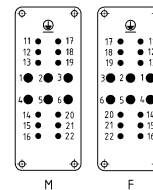
1.5 ... 6,
0.14 ... 2.5
Signal

09 38 018 3002

09 38 018 3102



1) distance for contact max. 21 mm



Contact arrangement (view from termination side)

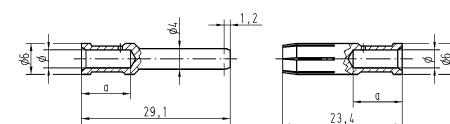
Han® C,
Crimp contact,
Contact surface:
Silver plated



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



Conductor cross-section	Ø	Stripping length
1.5 mm² AWG 16	1.75 mm	9.5 mm
2.5 mm² AWG 14	2.25 mm	9.5 mm
4 mm² AWG 12	2.85 mm	9.5 mm
6 mm² AWG 10	3.5 mm	9.5 mm
10 mm² AWG 8	4.3 mm	12 mm

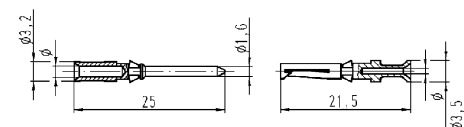
Han D®,
Crimp contact,
Contact surface:
Silver plated



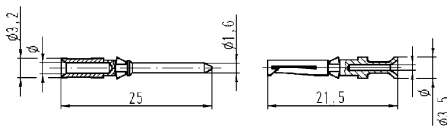
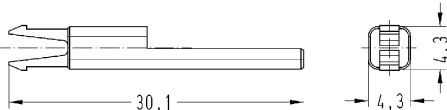
0.14 ... 0.37
0.5
0.75
1
1.5
2.5

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



Conductor cross-section	Ø	Stripping length
0.14-0.37 mm² AWG 26-22	0.9 mm	8 mm
0.5 mm² AWG 20	1.1 mm	8 mm
0.75 mm² AWG 18	1.3 mm	8 mm
1 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

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)																					
		Male	Female																						
Han D®, Crimp contact, Contact surface: 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><tr><th>Conductor cross-section</th><th>ø</th><th>Stripping length</th></tr><tr><td>0.14-0.37 mm² AWG 26-22</td><td>0.9 mm</td><td>8 mm</td></tr><tr><td>0.5 mm² AWG 20</td><td>1.1 mm</td><td>8 mm</td></tr><tr><td>0.75 mm² AWG 18</td><td>1.3 mm</td><td>8 mm</td></tr><tr><td>1 mm² AWG 18</td><td>1.45 mm</td><td>8 mm</td></tr><tr><td>1.5 mm² AWG 16</td><td>1.75 mm</td><td>8 mm</td></tr><tr><td>2.5 mm² AWG 14</td><td>2.25 mm</td><td>6 mm</td></tr></table>	Conductor cross-section	ø	Stripping length	0.14-0.37 mm² AWG 26-22	0.9 mm	8 mm	0.5 mm² AWG 20	1.1 mm	8 mm	0.75 mm² AWG 18	1.3 mm	8 mm	1 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
Conductor cross-section	ø	Stripping length																							
0.14-0.37 mm² AWG 26-22	0.9 mm	8 mm																							
0.5 mm² AWG 20	1.1 mm	8 mm																							
0.75 mm² AWG 18	1.3 mm	8 mm																							
1 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																							
Coding element		09 12 000 9922																							

Features

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

Technical characteristics

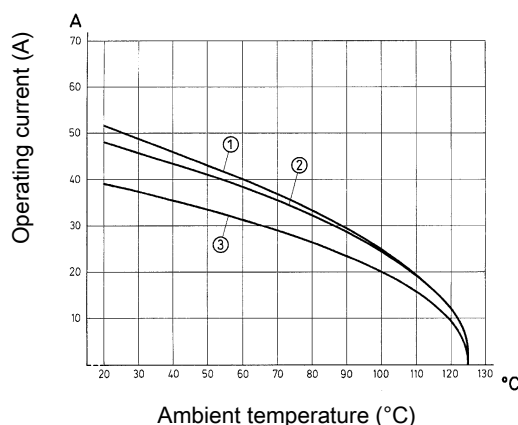
Number of contacts	6
Additional contacts	+ 12 additional signal contacts
Rated current	40 A
Rated voltage	690 V
Rated impulse voltage	8 kV
Pollution degree	3
Rated current (signal)	10 A
Rated voltage conductor-earth (signal)	230 V
Rated voltage conductor-conductor (signal)	400 V
Rated impulse voltage (signal)	4 kV
Pollution degree (signal)	3
Rated current acc. to UL	40 A
Rated current acc. to UL (signal)	10 A
Rated current acc. to CSA	40 A
Rated current acc. to CSA (signal)	10 A
Rated voltage acc. to UL	600 V
Rated voltage acc. to UL (signal)	600 V
Rated voltage acc. to CSA	300 V
Rated voltage acc. to CSA (signal)	300 V
Insulation resistance	$>10^{10} \Omega$
Contact resistance	$\leq 0.5 \text{ m}\Omega$
Contact resistance, signal area	$\leq 3 \text{ m}\Omega$
Limiting temperature	-40 ... +125 °C
Mating cycles	≥ 500
Wire outer diameter	$\leq 6.1 \text{ mm}$
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant with exemption

Derating

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 acc. to IEC 60512-5-2



- ① Conductor cross-section 10 mm²
- ② Conductor cross-section 6 mm²
- ③ Conductor cross-section 4 mm²

Specifications and approvals

EN 60664-1
IEC 61984
DNV GL

Details

Hoods/Housings see chapter Han 31

Hex key (A/F 2) see chapter Han 90

Remarks on the axial screw technique

The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

Number of contacts

6+ 

40 A 690 V 8 kV 3
10 A 230/400 V 4 kV 3
+ 12 additional signal contacts

Han-
Com

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)
		Male	Female	
Han-Com®, Han® K 6/12, Axial screw termination / screw termination, Contact surface: Silver plated 	2.5 ... 8, 0.2 ... 2.5 Signal	09 38 018 2601	09 38 018 2701	

Features

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

Technical characteristics

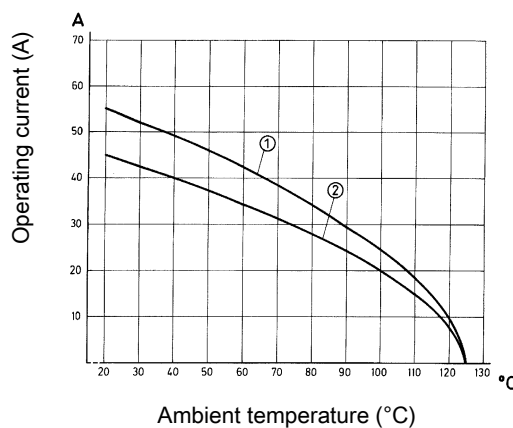
Number of contacts	6
Additional contacts	+ 36 additional signal contacts
Rated current	40 A
Rated voltage	690 V
Rated impulse voltage	8 kV
Pollution degree	3
Rated current (signal)	10 A
Rated voltage (signal)	160 V
Rated impulse voltage (signal)	2.5 kV
Pollution degree (signal)	3
Rated current acc. to UL	40 A
Rated current acc. to UL (signal)	10 A
Rated current acc. to CSA	40 A
Rated current acc. to CSA (signal)	10 A
Rated voltage acc. to UL	600 V
Rated voltage acc. to UL (signal)	600 V
Rated voltage acc. to CSA	300 V
Rated voltage acc. to CSA (signal)	300 V
Insulation resistance	$>10^{10} \Omega$
Contact resistance	$\leq 1 \text{ m}\Omega, \leq 3 \text{ m}\Omega$
Limiting temperature	$-40 \dots +125 \text{ }^{\circ}\text{C}$
Mating cycles	≥ 500
Wire outer diameter	$\leq 5 \text{ mm}$
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption

Derating

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 acc. to IEC 60512-5-2



- ① Conductor cross-section 6 mm²
- ② Conductor cross-section 4 mm²

Specifications and approvals

EN 60664-1
IEC 61984
UL 1977 ECBT2.E235076
CSA-C22.2 No. 182.3 ECBT8.E235076
DNV GL

Details

Hoods/Housings see chapter Han 31

Contact resistance Han D® crimp contact: $\leq 3 \text{ m}\Omega$

Contact resistance Han® C crimp contact: $\leq 1 \text{ m}\Omega$

Crimping tools see chapter Han 90

Remarks on the crimp technique

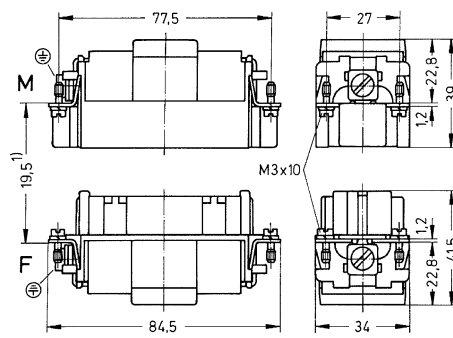
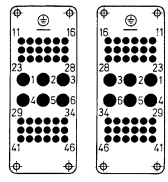
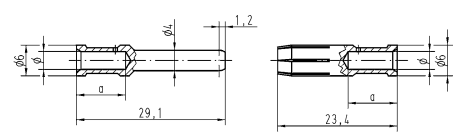
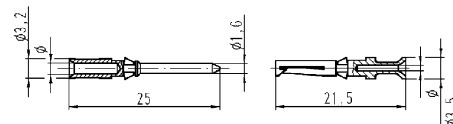
The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

Number of contacts

6+

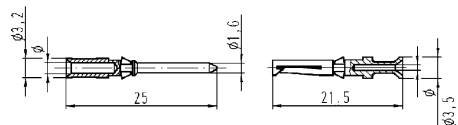
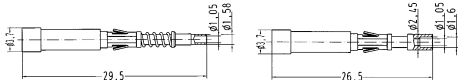
40 A 690 V 8 kV 3
 10 A 160 V 2.5 kV 3
 + 36 additional signal contacts

Han-Com

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)																					
		Male	Female																						
Han-Com®, Han® K 6/36, Crimp termination  Please order crimp contacts separately.	1.5 ... 6, 0.14 ... 2.5 Signal	09 38 042 3001	09 38 042 3101	 1) distance for contact max. 21 mm  Contact arrangement (view from termination side)																					
Han® C, Crimp contact, Contact surface: 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><tr><th>Conductor cross-section</th><th>ø</th><th>Stripping length</th></tr><tr><td>1.5 mm² AWG 16</td><td>1.75 mm</td><td>9.5 mm</td></tr><tr><td>2.5 mm² AWG 14</td><td>2.25 mm</td><td>9.5 mm</td></tr><tr><td>4 mm² AWG 12</td><td>2.85 mm</td><td>9.5 mm</td></tr><tr><td>6 mm² AWG 10</td><td>3.5 mm</td><td>9.5 mm</td></tr><tr><td>10 mm² AWG 8</td><td>4.3 mm</td><td>12 mm</td></tr></table>	Conductor cross-section	ø	Stripping length	1.5 mm² AWG 16	1.75 mm	9.5 mm	2.5 mm² AWG 14	2.25 mm	9.5 mm	4 mm² AWG 12	2.85 mm	9.5 mm	6 mm² AWG 10	3.5 mm	9.5 mm	10 mm² AWG 8	4.3 mm	12 mm			
Conductor cross-section	ø	Stripping length																							
1.5 mm² AWG 16	1.75 mm	9.5 mm																							
2.5 mm² AWG 14	2.25 mm	9.5 mm																							
4 mm² AWG 12	2.85 mm	9.5 mm																							
6 mm² AWG 10	3.5 mm	9.5 mm																							
10 mm² AWG 8	4.3 mm	12 mm																							
Han D®, Crimp contact, Contact surface: 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><tr><th>Conductor cross-section</th><th>ø</th><th>Stripping length</th></tr><tr><td>0.14-0.37 mm² AWG 26-22</td><td>0.9 mm</td><td>8 mm</td></tr><tr><td>0.5 mm² AWG 20</td><td>1.1 mm</td><td>8 mm</td></tr><tr><td>0.75 mm² AWG 18</td><td>1.3 mm</td><td>8 mm</td></tr><tr><td>1 mm² AWG 18</td><td>1.45 mm</td><td>8 mm</td></tr><tr><td>1.5 mm² AWG 16</td><td>1.75 mm</td><td>8 mm</td></tr><tr><td>2.5 mm² AWG 14</td><td>2.25 mm</td><td>6 mm</td></tr></table>	Conductor cross-section	ø	Stripping length	0.14-0.37 mm² AWG 26-22	0.9 mm	8 mm	0.5 mm² AWG 20	1.1 mm	8 mm	0.75 mm² AWG 18	1.3 mm	8 mm	1 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
Conductor cross-section	ø	Stripping length																							
0.14-0.37 mm² AWG 26-22	0.9 mm	8 mm																							
0.5 mm² AWG 20	1.1 mm	8 mm																							
0.75 mm² AWG 18	1.3 mm	8 mm																							
1 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																							



Han-Com

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)
		Male	Female	
Han D®, Crimp contact, Contact surface: 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	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	
FO contact, for 1 mm plastic fibre		20 10 001 3211	20 10 001 3221	 20 10 001 3211 + 20 10 001 3221

Features

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

Technical characteristics

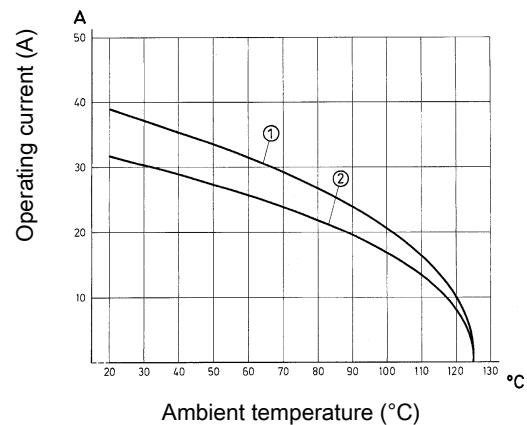
Number of contacts	12
Additional contacts	+ 2 additional signal contacts
Rated current	40 A
Rated voltage	690 V
Rated impulse voltage	8 kV
Pollution degree	3
Rated current (signal)	10 A
Rated voltage (signal)	250 V
Rated impulse voltage (signal)	4 kV
Pollution degree (signal)	3
Rated current acc. to UL	40 A
Rated current acc. to UL (signal)	10 A
Rated current acc. to CSA	40 A
Rated current acc. to CSA (signal)	10 A
Rated voltage acc. to UL	600 V
Rated voltage acc. to UL (signal)	600 V
Rated voltage acc. to CSA	300 V
Rated voltage acc. to CSA (signal)	300 V
Insulation resistance	$>10^{10} \Omega$
Contact resistance	$\leq 1 \text{ m}\Omega, \leq 3 \text{ m}\Omega$
Limiting temperature	-40 ... +125 °C
Mating cycles	≥ 500
Wire outer diameter	$\leq 5 \text{ mm}$
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption

Derating

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 acc. to IEC 60512-5-2



- ① Conductor cross-section 6 mm²
 ② Conductor cross-section 4 mm²

Specifications and approvals

EN 60664-1
 IEC 61984
 UL 1977 ECBT2.E235076
 CSA-C22.2 No. 182.3 ECBT8.E235076
 DNV GL

Details

Hoods/Housings see chapter Han 31

Contact resistance Han D® crimp contact: $\leq 3 \text{ m}\Omega$

Contact resistance Han® C crimp contact: $\leq 1 \text{ m}\Omega$

Crimping tools see chapter Han 90

Remarks on the crimp technique

The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

$12 + \textcircled{\text{⏏}}$

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)																					
		Male	Female																						
Han-Com®, Han® K 12/2, Crimp termination	1.5 ... 6, 0.14 ... 2.5 Signal	09 32 012 3001	09 32 012 3101	1) distance for contact max. 21 mm Contact arrangement (view from termination side)																					
Han® C, Crimp contact, Contact surface: 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>Conductor cross-section</th><th>Ø</th><th>Stripping length</th></tr> </thead> <tbody> <tr> <td>1.5 mm² AWG 16</td><td>1.75 mm</td><td>9.5 mm</td></tr> <tr> <td>2.5 mm² AWG 14</td><td>2.25 mm</td><td>9.5 mm</td></tr> <tr> <td>4 mm² AWG 12</td><td>2.85 mm</td><td>9.5 mm</td></tr> <tr> <td>6 mm² AWG 10</td><td>3.5 mm</td><td>9.5 mm</td></tr> <tr> <td>10 mm² AWG 8</td><td>4.3 mm</td><td>12 mm</td></tr> </tbody> </table>	Conductor cross-section	Ø	Stripping length	1.5 mm² AWG 16	1.75 mm	9.5 mm	2.5 mm² AWG 14	2.25 mm	9.5 mm	4 mm² AWG 12	2.85 mm	9.5 mm	6 mm² AWG 10	3.5 mm	9.5 mm	10 mm² AWG 8	4.3 mm	12 mm			
Conductor cross-section	Ø	Stripping length																							
1.5 mm² AWG 16	1.75 mm	9.5 mm																							
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10 mm² AWG 8	4.3 mm	12 mm																							
Han D®, Crimp contact, Contact surface: 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>Conductor cross-section</th><th>Ø</th><th>Stripping length</th></tr> </thead> <tbody> <tr> <td>0.14-0.37 mm² AWG 26-22</td><td>0.9 mm</td><td>8 mm</td></tr> <tr> <td>0.5 mm² AWG 20</td><td>1.1 mm</td><td>8 mm</td></tr> <tr> <td>0.75 mm² AWG 18</td><td>1.3 mm</td><td>8 mm</td></tr> <tr> <td>1 mm² AWG 18</td><td>1.45 mm</td><td>8 mm</td></tr> <tr> <td>1.5 mm² AWG 16</td><td>1.75 mm</td><td>8 mm</td></tr> <tr> <td>2.5 mm² AWG 14</td><td>2.25 mm</td><td>6 mm</td></tr> </tbody> </table>	Conductor cross-section	Ø	Stripping length	0.14-0.37 mm² AWG 26-22	0.9 mm	8 mm	0.5 mm² AWG 20	1.1 mm	8 mm	0.75 mm² AWG 18	1.3 mm	8 mm	1 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
Conductor cross-section	Ø	Stripping length																							
0.14-0.37 mm² AWG 26-22	0.9 mm	8 mm																							
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1 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																							

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)
		Male	Female	
Han D®, Crimp contact, Contact surface: 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	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	
FO contact, for 1 mm plastic fibre		20 10 001 3211	20 10 001 3221	
				20 10 001 3211 + 20 10 001 3221

Features

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

Technical characteristics

Number of contacts	18
Additional contacts	+ 18 additional signal contacts
Rated current	40 A, 16 A
Rated voltage	830 V
Rated impulse voltage	8 kV
Pollution degree	3
Rated current (signal)	10 A
Rated voltage (signal)	250 V
Rated impulse voltage (signal)	4 kV
Pollution degree (signal)	3
Insulation resistance	$>10^{10} \Omega$
Contact resistance	$\leq 1 \text{ m}\Omega$, $\leq 3 \text{ m}\Omega$
Limiting temperature	-40 ... +125 °C
Mating cycles	≥ 500
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption

Specifications and approvals

EN 60664-1
IEC 61984
DNV GL

Details

Contact resistance Han D® crimp contact: $\leq 3 \text{ m}\Omega$

Contact resistance Han E® crimp contact: $\leq 1 \text{ m}\Omega$

Contact resistance Han® C crimp contact: $\leq 1 \text{ m}\Omega$

Crimping tools see chapter Han 90

Remarks on the crimp technique

The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

Number of contacts

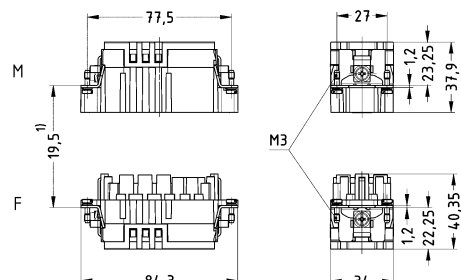
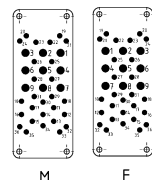
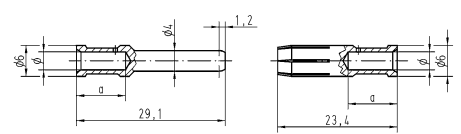
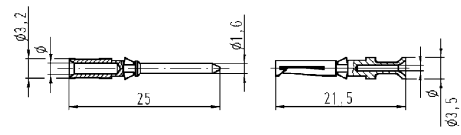
18+

40 A 830 V 8 kV 3 16 A 830 V 8 kV 3

10 A 250 V 4 kV 3

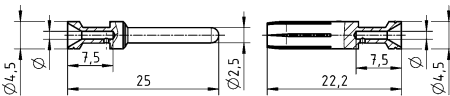
+ 18 additional signal contacts

Han-
Com

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)																					
		Male	Female																						
Han-Com®, Han® K 9/9/18, Crimp termination  Please order crimp contacts separately. To ensure a preleading PE-contact under all conditions, it is necessary to use guide pins/bushes (09 33 000 9908 / 09 33 000 9909).	1.5 ... 6, 0.14 ... 4, 0.14 ... 2.5 Signal	09 38 036 3001	09 38 036 3101	 1) distance for contact max. 21 mm  Contact arrangement (view from termination side)																					
Han® C, Crimp contact, Contact surface: 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><tr><th>Conductor cross-section</th><th>ø</th><th>Stripping length</th></tr><tr><td>1.5 mm² AWG 16</td><td>1.75 mm</td><td>9.5 mm</td></tr><tr><td>2.5 mm² AWG 14</td><td>2.25 mm</td><td>9.5 mm</td></tr><tr><td>4 mm² AWG 12</td><td>2.85 mm</td><td>9.5 mm</td></tr><tr><td>6 mm² AWG 10</td><td>3.5 mm</td><td>9.5 mm</td></tr><tr><td>10 mm² AWG 8</td><td>4.3 mm</td><td>12 mm</td></tr></table>	Conductor cross-section	ø	Stripping length	1.5 mm² AWG 16	1.75 mm	9.5 mm	2.5 mm² AWG 14	2.25 mm	9.5 mm	4 mm² AWG 12	2.85 mm	9.5 mm	6 mm² AWG 10	3.5 mm	9.5 mm	10 mm² AWG 8	4.3 mm	12 mm			
Conductor cross-section	ø	Stripping length																							
1.5 mm² AWG 16	1.75 mm	9.5 mm																							
2.5 mm² AWG 14	2.25 mm	9.5 mm																							
4 mm² AWG 12	2.85 mm	9.5 mm																							
6 mm² AWG 10	3.5 mm	9.5 mm																							
10 mm² AWG 8	4.3 mm	12 mm																							
Han D®, Crimp contact, Contact surface: 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><tr><th>Conductor cross-section</th><th>ø</th><th>Stripping length</th></tr><tr><td>0.14-0.37 mm² AWG 26-22</td><td>0.9 mm</td><td>8 mm</td></tr><tr><td>0.5 mm² AWG 20</td><td>1.1 mm</td><td>8 mm</td></tr><tr><td>0.75 mm² AWG 18</td><td>1.3 mm</td><td>8 mm</td></tr><tr><td>1 mm² AWG 18</td><td>1.45 mm</td><td>8 mm</td></tr><tr><td>1.5 mm² AWG 16</td><td>1.75 mm</td><td>8 mm</td></tr><tr><td>2.5 mm² AWG 14</td><td>2.25 mm</td><td>6 mm</td></tr></table>	Conductor cross-section	ø	Stripping length	0.14-0.37 mm² AWG 26-22	0.9 mm	8 mm	0.5 mm² AWG 20	1.1 mm	8 mm	0.75 mm² AWG 18	1.3 mm	8 mm	1 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
Conductor cross-section	ø	Stripping length																							
0.14-0.37 mm² AWG 26-22	0.9 mm	8 mm																							
0.5 mm² AWG 20	1.1 mm	8 mm																							
0.75 mm² AWG 18	1.3 mm	8 mm																							
1 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																							



Han-
Com

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)																											
		Male	Female																												
Han E®, Crimp contact, Contact surface: Silver plated	0.14 ... 0.37	09 33 000 6127	09 33 000 6227																												
	0.5	09 33 000 6121	09 33 000 6220																												
	0.75	09 33 000 6114	09 33 000 6214																												
	1	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																												
	3	09 33 000 6106	09 33 000 6206																												
	4	09 33 000 6107	09 33 000 6207																												
				<table><tr><th colspan="2">Conductor cross-section</th><th>Identification</th></tr><tr><td>0.14-0.37 mm²</td><td>AWG 26-22</td><td>no groove</td></tr><tr><td>0.5 mm²</td><td>AWG 20</td><td>no groove</td></tr><tr><td>0.75 mm²</td><td>AWG 18</td><td>1 groove*</td></tr><tr><td>1 mm²</td><td>AWG 18</td><td>1 groove</td></tr><tr><td>1.5 mm²</td><td>AWG 16</td><td>2 groove</td></tr><tr><td>2.5 mm²</td><td>AWG 14</td><td>3 groove</td></tr><tr><td>3 mm²</td><td>AWG 12</td><td>wide groove</td></tr><tr><td>4 mm²</td><td>AWG 12</td><td>no groove</td></tr></table>	Conductor cross-section		Identification	0.14-0.37 mm²	AWG 26-22	no groove	0.5 mm²	AWG 20	no groove	0.75 mm²	AWG 18	1 groove*	1 mm²	AWG 18	1 groove	1.5 mm²	AWG 16	2 groove	2.5 mm²	AWG 14	3 groove	3 mm²	AWG 12	wide groove	4 mm²	AWG 12	no groove
Conductor cross-section		Identification																													
0.14-0.37 mm²	AWG 26-22	no groove																													
0.5 mm²	AWG 20	no groove																													
0.75 mm²	AWG 18	1 groove*																													
1 mm²	AWG 18	1 groove																													
1.5 mm²	AWG 16	2 groove																													
2.5 mm²	AWG 14	3 groove																													
3 mm²	AWG 12	wide groove																													
4 mm²	AWG 12	no groove																													
				* on the back crimp collar																											
				Stripping length 7.5 mm																											

Features

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

Technical characteristics

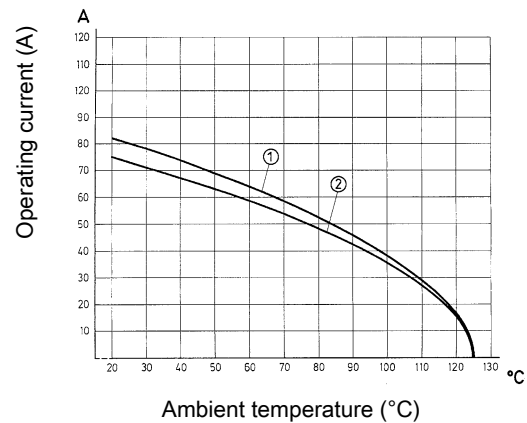
Number of contacts	4
Additional contacts	+ 8 additional signal contacts
Rated current	80 A
Rated voltage	400 V
Rated impulse voltage	6 kV
Pollution degree	3
Rated current (signal)	16 A
Rated voltage (signal)	400 V
Rated impulse voltage (signal)	6 kV
Pollution degree (signal)	3
Rated current acc. to UL	80 A
Rated current acc. to UL (signal)	16 A
Rated current acc. to CSA	80 A
Rated current acc. to CSA (signal)	16 A
Rated voltage acc. to UL	600 V
Rated voltage acc. to UL (signal)	600 V
Rated voltage acc. to CSA	600 V
Rated voltage acc. to CSA (signal)	600 V
Insulation resistance	$>10^{10} \Omega$
Contact resistance	$\leq 0.3 \text{ m}\Omega$
Contact resistance, signal area	$\leq 1 \text{ m}\Omega$
Limiting temperature	-40 ... +125 °C
Mating cycles	≥ 500
Material (insert)	Polyamide (PA)
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	HB
RoHS	compliant with exemption

Derating

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 acc. to IEC 60512-5-2



- ① Conductor cross-section 16 mm²
 ② Conductor cross-section 10 mm²

Specifications and approvals

EN 60664-1
 IEC 61984
 UL 1977 ECBT2.E235076
 CSA-C22.2 No. 182.3 ECBT8.E235076
 DNV GL

Details

Hoods/Housings see chapter Han 31

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



Number of contacts

4+

80 A 400 V 6 kV 3
16 A 400 V 6 kV 3
+ 8 additional signal contacts

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)																								
		Male	Female																									
Han-Com®, Han® K 4/8, Screw termination, Contact surface: Silver plated	1.5 ... 16, 0.5 ... 2.5 Signal	09 38 012 2601	09 38 012 2701	Contact arrangement (view from termination side) <table><tr><th colspan="3">Power contacts</th></tr><tr><th>Conductor cross-section</th><th>Tightening torque</th><th>Stripping length</th></tr><tr><td>1.5 mm²</td><td>1.2 Nm</td><td>14 mm</td></tr><tr><td>2.5 mm²</td><td>2 Nm</td><td>14 mm</td></tr><tr><td>4 mm²</td><td>3 Nm</td><td>14 mm</td></tr><tr><td>6 mm²</td><td>3 Nm</td><td>14 mm</td></tr><tr><td>10 mm²</td><td>3 Nm</td><td>14 mm</td></tr><tr><td>16 mm²</td><td>3 Nm</td><td>14 mm</td></tr></table> Signal contacts : Stripping length 7.5 mm Tightening torque 0.5 Nm	Power contacts			Conductor cross-section	Tightening torque	Stripping length	1.5 mm²	1.2 Nm	14 mm	2.5 mm²	2 Nm	14 mm	4 mm²	3 Nm	14 mm	6 mm²	3 Nm	14 mm	10 mm²	3 Nm	14 mm	16 mm²	3 Nm	14 mm
Power contacts																												
Conductor cross-section	Tightening torque	Stripping length																										
1.5 mm²	1.2 Nm	14 mm																										
2.5 mm²	2 Nm	14 mm																										
4 mm²	3 Nm	14 mm																										
6 mm²	3 Nm	14 mm																										
10 mm²	3 Nm	14 mm																										
16 mm²	3 Nm	14 mm																										

Features

- Combination of signal and power in one connector
- Crimp termination for power and signal area
- Use of standard Han® TC 100 and Han E® contacts
- 16 coding options

Technical characteristics

Number of contacts	6
Additional contacts	+ 6 additional signal contacts
Rated current	100 A
Rated voltage	690 V
Rated impulse voltage	8 kV
Pollution degree	3
Rated current (signal)	16 A
Rated voltage (signal)	400 V
Rated impulse voltage (signal)	6 kV
Pollution degree (signal)	3
Insulation resistance	$>10^{10} \Omega$
Contact resistance	$\leq 1 \text{ m}\Omega, \leq 0.3 \text{ m}\Omega$
Limiting temperature	-40 ... +125 °C
Mating cycles	≥ 500
Wire outer diameter	$\leq 12.8 \text{ mm}$
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material (accessories)	Thermoplastic
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption

Specifications and approvals

EN 60664-1
IEC 61984
DNV GL

Details

Contact resistance Han E® crimp contact: $\leq 1 \text{ m}\Omega$

Contact resistance TC 100: $\leq 0.3 \text{ m}\Omega$

For more technical details (i.e. number of crimping operations or crimping position) see eCatalogue

Crimping tools see chapter Han 90

Remarks on the crimp technique

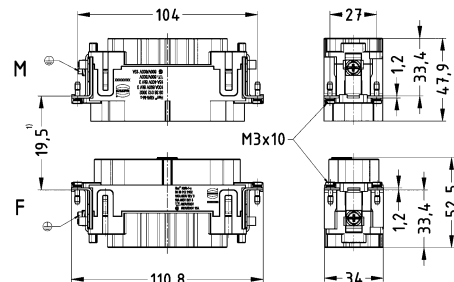
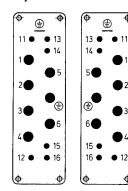
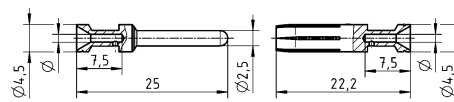
The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

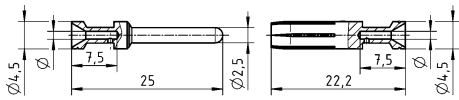
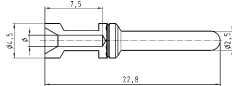
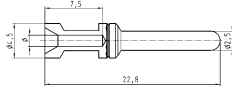
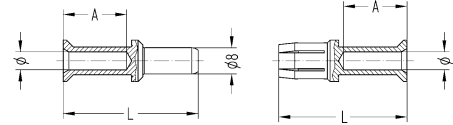
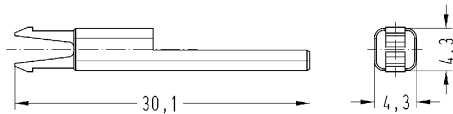


Number of contacts

6+

100 A 690 V 8 kV 3
16 A 400 V 6 kV 3
+ 6 additional signal contacts

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)																		
		Male	Female																			
Han-Com®, Han® K 6/6, Crimp termination  Please order crimp contacts separately. Please order coding pins separately.	10 ... 25, 0.14 ... 2.5 Signal	09 38 012 3002	09 38 012 3102	 1) distance for contact max. 21 mm  Contact arrangement (view from termination side)																		
Han E®, Crimp contact, Contact surface: 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	 <table><thead><tr><th>Conductor cross-section</th><th>Identification</th></tr></thead><tbody><tr><td>0.14-0.37 mm² AWG 26-22</td><td>no groove</td></tr><tr><td>0.5 mm² AWG 20</td><td>no groove</td></tr><tr><td>0.75 mm² AWG 18</td><td>1 groove*</td></tr><tr><td>1 mm² AWG 18</td><td>1 groove</td></tr><tr><td>1.5 mm² AWG 16</td><td>2 groove</td></tr><tr><td>2.5 mm² AWG 14</td><td>3 groove</td></tr><tr><td>3 mm² AWG 12</td><td>wide groove</td></tr><tr><td>4 mm² AWG 12</td><td>no groove</td></tr></tbody></table> * on the back crimp collar Stripping length 7.5 mm	Conductor cross-section	Identification	0.14-0.37 mm² AWG 26-22	no groove	0.5 mm² AWG 20	no groove	0.75 mm² AWG 18	1 groove*	1 mm² AWG 18	1 groove	1.5 mm² AWG 16	2 groove	2.5 mm² AWG 14	3 groove	3 mm² AWG 12	wide groove	4 mm² AWG 12	no groove
Conductor cross-section	Identification																					
0.14-0.37 mm² AWG 26-22	no groove																					
0.5 mm² AWG 20	no groove																					
0.75 mm² AWG 18	1 groove*																					
1 mm² AWG 18	1 groove																					
1.5 mm² AWG 16	2 groove																					
2.5 mm² AWG 14	3 groove																					
3 mm² AWG 12	wide groove																					
4 mm² AWG 12	no groove																					

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)																														
		Male	Female																															
Han E®, Crimp contact, Contact surface: 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><tr><th>Conductor cross-section</th><th>Identification</th></tr><tr><td>0.14-0.37 mm² AWG 26-22</td><td>no groove</td></tr><tr><td>0.5 mm² AWG 20</td><td>no groove</td></tr><tr><td>0.75 mm² AWG 18</td><td>1 groove*</td></tr><tr><td>1 mm² AWG 18</td><td>1 groove</td></tr><tr><td>1.5 mm² AWG 16</td><td>2 groove</td></tr><tr><td>2.5 mm² AWG 14</td><td>3 groove</td></tr><tr><td>3 mm² AWG 12</td><td>wide groove</td></tr><tr><td>4 mm² AWG 12</td><td>no groove</td></tr></table> * on the back crimp collar Stripping length 7.5 mm  <table><tr><th>Conductor cross-section</th><th>Ø</th><th>Stripping length</th></tr><tr><td>0.75-1 mm² AWG 18</td><td>1.45 mm</td><td>7.5 mm</td></tr><tr><td>1.5 mm² AWG 16</td><td>1.75 mm</td><td>7.5 mm</td></tr><tr><td>2.5 mm² AWG 14</td><td>2.25 mm</td><td>7.5 mm</td></tr></table>	Conductor cross-section	Identification	0.14-0.37 mm² AWG 26-22	no groove	0.5 mm² AWG 20	no groove	0.75 mm² AWG 18	1 groove*	1 mm² AWG 18	1 groove	1.5 mm² AWG 16	2 groove	2.5 mm² AWG 14	3 groove	3 mm² AWG 12	wide groove	4 mm² AWG 12	no groove	Conductor cross-section	Ø	Stripping length	0.75-1 mm² AWG 18	1.45 mm	7.5 mm	1.5 mm² AWG 16	1.75 mm	7.5 mm	2.5 mm² AWG 14	2.25 mm	7.5 mm
Conductor cross-section	Identification																																	
0.14-0.37 mm² AWG 26-22	no groove																																	
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0.75 mm² AWG 18	1 groove*																																	
1 mm² AWG 18	1 groove																																	
1.5 mm² AWG 16	2 groove																																	
2.5 mm² AWG 14	3 groove																																	
3 mm² AWG 12	wide groove																																	
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1.5 mm² AWG 16	1.75 mm	7.5 mm																																
2.5 mm² AWG 14	2.25 mm	7.5 mm																																
Han E®, Crimp contact, Relay contact, Contact surface: Silver plated 	0.75 ... 1 1.5 2.5	09 33 000 6109 09 33 000 6110 09 33 000 6111		 <table><tr><th>Conductor cross-section</th><th>Ø</th><th>Stripping length</th></tr><tr><td>0.75-1 mm² AWG 18</td><td>1.45 mm</td><td>7.5 mm</td></tr><tr><td>1.5 mm² AWG 16</td><td>1.75 mm</td><td>7.5 mm</td></tr><tr><td>2.5 mm² AWG 14</td><td>2.25 mm</td><td>7.5 mm</td></tr></table>	Conductor cross-section	Ø	Stripping length	0.75-1 mm² AWG 18	1.45 mm	7.5 mm	1.5 mm² AWG 16	1.75 mm	7.5 mm	2.5 mm² AWG 14	2.25 mm	7.5 mm																		
Conductor cross-section	Ø	Stripping length																																
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1.5 mm² AWG 16	1.75 mm	7.5 mm																																
2.5 mm² AWG 14	2.25 mm	7.5 mm																																
TC 100, Crimp contact, Contact surface: Silver plated 	10 16 25 35	09 11 000 6114 09 11 000 6116 09 11 000 6125 09 11 000 6529	09 11 000 6214 09 11 000 6216 09 11 000 6225 09 11 000 6629	 <table><tr><th>Conductor cross-section</th><th>Ø</th><th>Stripping length</th></tr><tr><td>10 mm²</td><td>4.3</td><td>19 mm</td></tr><tr><td>16 mm²</td><td>5.5</td><td>19 mm</td></tr><tr><td>25 mm²</td><td>7</td><td>19 mm</td></tr><tr><td>35 mm²</td><td>8.2</td><td>16 mm</td></tr></table> for stranded wire according to IEC 60 228 Class 5	Conductor cross-section	Ø	Stripping length	10 mm²	4.3	19 mm	16 mm²	5.5	19 mm	25 mm²	7	19 mm	35 mm²	8.2	16 mm															
Conductor cross-section	Ø	Stripping length																																
10 mm²	4.3	19 mm																																
16 mm²	5.5	19 mm																																
25 mm²	7	19 mm																																
35 mm²	8.2	16 mm																																
Coding element 		09 12 000 9922																																

Features

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

Technical characteristics

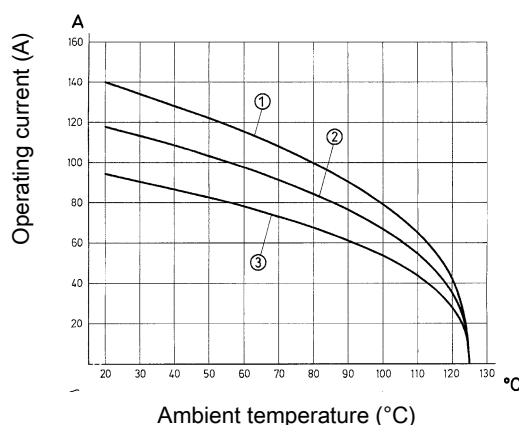
Number of contacts	6
Additional contacts	+ 6 additional signal contacts
Rated current	100 A
Rated voltage	690 V
Rated impulse voltage	8 kV
Pollution degree	3
Rated current (signal)	16 A
Rated voltage (signal)	400 V
Rated impulse voltage (signal)	6 kV
Pollution degree (signal)	3
Rated current acc. to UL	100 A
Rated current acc. to UL (signal)	16 A
Rated current acc. to CSA	100 A
Rated current acc. to CSA (signal)	15 A
Rated voltage acc. to UL	600 V
Rated voltage acc. to UL (signal)	300 V
Rated voltage acc. to CSA	600 V
Rated voltage acc. to CSA (signal)	600 V
Insulation resistance	$>10^{10} \Omega$
Contact resistance	$\leq 0.5 \text{ m}\Omega$
Contact resistance, signal area	$\leq 3 \text{ m}\Omega$
Limiting temperature	-40 ... +125 °C
Mating cycles	≥ 500
Wire outer diameter	$\leq 11.4 \text{ mm}$
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant with exemption

Derating

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 acc. to IEC 60512-5-2



- ① Conductor cross-section 35 mm²
- ② Conductor cross-section 25 mm²
- ③ Conductor cross-section 16 mm²

Specifications and approvals

EN 60664-1
IEC 61984
UL 1977 ECBT2.E235076
CSA-C22.2 No. 182.3 ECBT8.E235076
DNV GL

Details

Hoods/Housings see chapter Han 31

Hex key (A/F 4) see chapter Han 90

Adapter 3/8" 09 99 000 0370 see chapter Han 90

Remarks on the axial screw technique

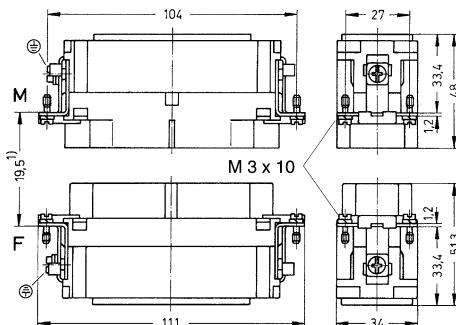
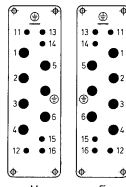
The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

Number of contacts

6+ 

100 A 690 V 8 kV 3
16 A 400 V 6 kV 3
+ 6 additional signal contacts

Han-Com

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)															
		Male	Female																
Han-Com®, Han® K 6/6, Axial screw termination / screw termination, Contact surface: Silver plated 	16 ... 35, 0.2 ... 2.5 Signal	09 38 012 2651	09 38 012 2751	 1) distance for contact max. 21 mm  Contact arrangement (view from termination side) <table><tr><th colspan="3">Power contacts</th></tr><tr><th>Conductor cross-section</th><th>Tightening torque</th><th>Stripping length</th></tr><tr><td>16 mm²</td><td>6 Nm</td><td>13 ... 14 mm</td></tr><tr><td>25 mm²</td><td>7 Nm</td><td>13 ... 14 mm</td></tr><tr><td>35 mm²</td><td>8 Nm</td><td>13 ... 14 mm</td></tr></table> Signal contacts : Stripping length 7.5 mm Tightening torque 0.5 Nm	Power contacts			Conductor cross-section	Tightening torque	Stripping length	16 mm²	6 Nm	13 ... 14 mm	25 mm²	7 Nm	13 ... 14 mm	35 mm²	8 Nm	13 ... 14 mm
Power contacts																			
Conductor cross-section	Tightening torque	Stripping length																	
16 mm²	6 Nm	13 ... 14 mm																	
25 mm²	7 Nm	13 ... 14 mm																	
35 mm²	8 Nm	13 ... 14 mm																	

Features

- Axial screw termination
- No signal contacts

Technical characteristics

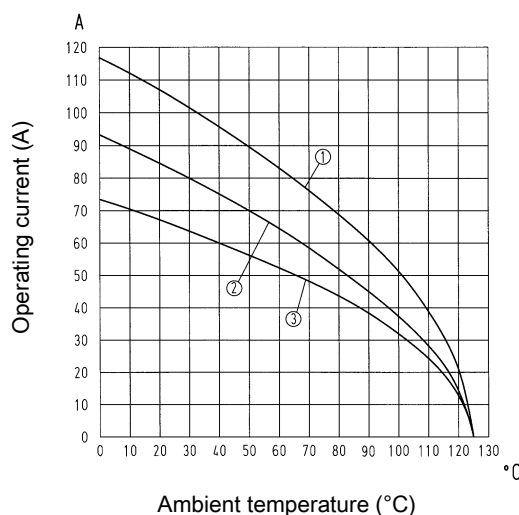
Number of contacts	8
Rated current	100 A
Rated voltage	690 V
Rated impulse voltage	8 kV
Pollution degree	3
Rated current acc. to UL	82 A
Rated current acc. to CSA	100 A
Rated voltage acc. to UL	600 V
Rated voltage acc. to CSA	600 V
Insulation resistance	$>10^{10} \Omega$
Contact resistance	$\leq 0.5 \text{ m}\Omega$
Limiting temperature	-40 ... +125 °C
Mating cycles	≥ 500
Wire outer diameter	$\leq 11.4 \text{ mm}$
Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant with exemption

Derating

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 acc. to IEC 60512-5-2



- ① Conductor cross-section 25 mm²
- ② Conductor cross-section 16 mm²
- ③ Conductor cross-section 10 mm²

Specifications and approvals

EN 60664-1
IEC 61984
UL 1977 ECBT2.E235076
CSA-C22.2 No. 182.3 ECBT8.E235076
DNV GL

Details

Hoods/Housings see chapter Han 31

Hex key (A/F 4) see chapter Han 90

Adapter 3/8" 09 99 000 0370 see chapter Han 90

Remarks on the axial screw technique

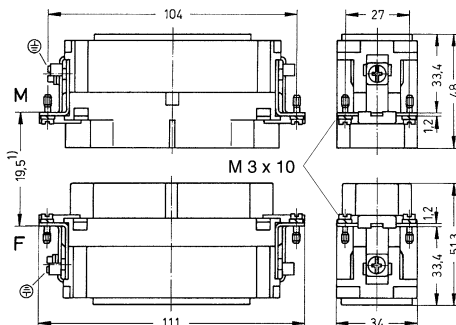
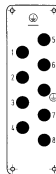
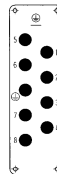
The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

Number of contacts

8+ 

100 A 690 V 8 kV 3

Han-Com

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)															
		Male	Female																
Han-Com®, Han® K 8/0, Axial screw termination, Contact surface: Silver plated 	10 ... 25	09 38 008 2653	09 38 008 2753	 1) distance for contact max. 21 mm  M  F Contact arrangement (view from termination side) <table><tr><th colspan="3">Power contacts</th></tr><tr><th>Conductor cross-section</th><th>Tightening torque</th><th>Stripping length</th></tr><tr><td>10 mm²</td><td>6 Nm</td><td>13 ... 14 mm</td></tr><tr><td>16 mm²</td><td>6 Nm</td><td>13 ... 14 mm</td></tr><tr><td>25 mm²</td><td>7 Nm</td><td>13 ... 14 mm</td></tr></table>	Power contacts			Conductor cross-section	Tightening torque	Stripping length	10 mm²	6 Nm	13 ... 14 mm	16 mm²	6 Nm	13 ... 14 mm	25 mm²	7 Nm	13 ... 14 mm
Power contacts																			
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