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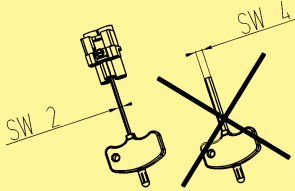
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Features

- Compact design with axial screw terminal
- 16 coding options
- For hoods/housings size Han® 3 A
- Finger protected male and female contacts
- Assembly without special tool

Attention

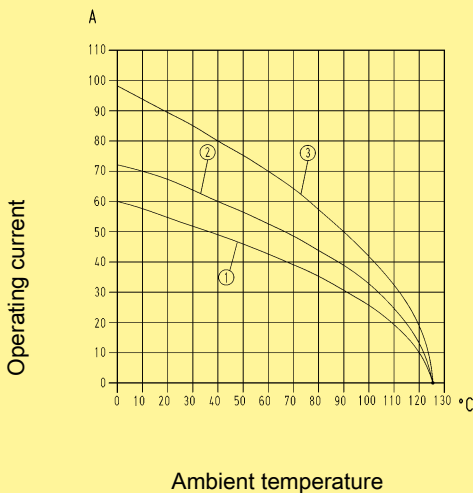
- For termination please use only hexagonal screw driver with wrench size SW 2.
- If PE contact is not used:
Please screw the PE contact maximal on both sides clockwise with a hexagonal screwdriver, wrench size SW 2.



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 6 mm²
 - ③ 10 mm²

Technical characteristics

Specifications DIN VDE 0110
 DIN EN 61 984

Approvals

Inserts

Number of contacts	2 + PE
Electrical data acc. to EN 61 984	40 A 400 V 6 kV 3
Rated current	40 A
Rated voltage	400 V
Rated impulse voltage	6 kV
Pollution degree	3
Rated voltage acc. to UL/CSA	600 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

Material	copper alloy
Surface	
- hard-silver plated	3 μm Ag
Contact resistance	≤ 1 mΩ
Axial screw termination	
- mm ²	4 ... 6 mm ² (10 mm optional)
- AWG	12 ... 10 (8 optional)
Tightening torque	1.8 Nm
Stripping length	8 mm ⁺¹

Hoods/Housings

Selection of hoods/housings see chapter 30 / chapter 31

Plastic hoods/housings

Material	polycarbonate
Flammability acc. to UL 94	V 0
Degree of protection acc. to DIN EN 60 529 for coupled connector	IP 67

Hoods/Housings, metal

Material	zinc die-cast
Degree of protection acc. to DIN EN 60 529 for coupled connector	IP 44
	IP 67 is achieved with seal screw 09 20 000 9918

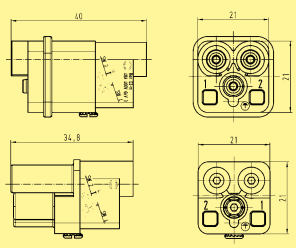
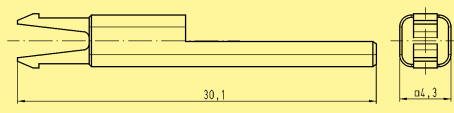
Accessories

Cable clamps	chapter 40
Sealing screw	chapter 40



Number of contacts

2 + 



Identification	Part number		Drawing	Dimensions in mm
	Male insert (M)	Female insert (F)		
Axial screw terminal	09 12 002 2651	09 12 002 2751		
Coding element	09 12 000 9922	09 12 000 9922		

Han
Q

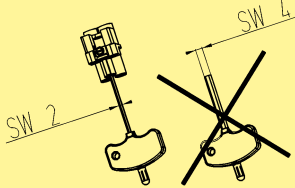
Identification	Part number	Drawing	Dimensions in mm
Hex key SW 2 for axial setscrew			
with grip	09 99 000 0313		
adapter 1/4"	09 99 000 0369		
			
			

Features

- Compact design with axial screw terminal
- 16 coding options
- For hoods/housings size Han® 3 A
- Finger protected male and female contacts
- For high voltages please use heat shrink tube (included in delivery range)

Attention

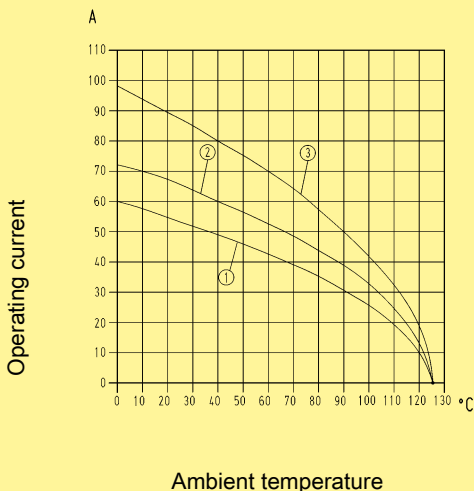
- For termination please use only hexagonal screw driver with wrench size SW 2.
- If PE contact is not used:
Please screw the PE contact maximal on both sides clockwise with a hexagonal screwdriver, wrench size SW 2.



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 6 mm²
- ③ 10 mm²

Technical characteristics

Specifications DIN VDE 0110
DIN EN 61 984

Approvals

Inserts

Number of contacts 2 + PE
Electrical data acc. to EN 61 984 **40 A 830 V 6 kV 3**
Rated current 40 A
Rated voltage 830 V
Rated impulse voltage 6 kV
Pollution degree 3

Rated voltage acc. to UL/CSA 600 V
Insulation resistance $\geq 10^{10} \Omega$
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 $\leq 1 \text{ m}\Omega$
Axial screw termination - mm² 4 ... 6 mm² (10 mm optional)
- AWG 12 ... 10 (8 optional)
Tightening torque 1.8 Nm
Stripping length 8 mm ⁺¹

Hoods/Housings

Selection of hoods/housings see chapter 30 / chapter 31

Plastic hoods/housings

Material polycarbonate
Flammability acc. to UL 94 V 0
Degree of protection acc. to DIN EN 60 529 for coupled connector IP 67

Hoods/Housings, metal

Material zinc die-cast
Degree of protection acc. to DIN EN 60 529 for coupled connector IP 44
IP 67 is achieved with seal screw 09 20 000 9918

Accessories

Cable clamps chapter 40
Sealing screw chapter 40

Number of contacts

2 +



Identification	Part number		Drawing	Dimensions in mm
	Male insert (M)	Female insert (F)		
Axial screw terminal with heat shrink tube	09 12 002 2652	09 12 002 2752		
Coding element	09 12 000 9922	09 12 000 9922		

Han Q

Identification	Part number	Drawing	Dimensions in mm
Hex key SW 2 for axial setscrew			
with grip	09 99 000 0313		
adapter 1/4"	09 99 000 0369		

13
05

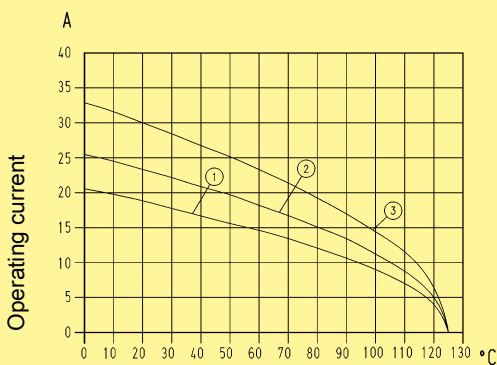
Features

- 5 contact chambers for crimp contacts of Han E® series
- Space-saving and compact design
- Leading protective ground with screw terminal
- Compatible with plastic and metal hoods of series Han® 3 A

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



Ambient temperature

- Wire gauge:
- ① 1.0 mm²
 - ② 1.5 mm²
 - ③ 2.5 mm²

Technical characteristics

Specifications DIN VDE 0110
DIN EN 61 984

Approvals

Inserts

Number of contacts	5 + PE
Electrical data	
acc. to EN 61 984	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	16 A 320/500 V 4 kV 2
Rated voltage	
acc. to UL/CSA	600 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

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	
- mm ²	0.14 ... 2.5 mm ²
- AWG	26 ... 14
PE screw terminal	
- mm ²	2.5 mm ²
- AWG	14

Hoods/Housings

Selection of hoods/housings see chapter 30 / chapter 31

Plastic hoods/housings

Material polycarbonate
Flammability acc. to UL 94 V 0
Degree of protection acc. to DIN EN 60 529 for coupled connector IP 67

Hoods/Housings, metal

Material zinc die-cast
Degree of protection acc. to DIN EN 60 529 for coupled connector IP 44
IP 67 is achieved with seal screw 09 20 000 9918

Accessories

Crimping tools chapter 99
Cable clamps chapter 40
Sealing screw chapter 40

Han Q

Number of contacts

5 +



Identification	Part number		Drawing	Dimensions in mm
	Male insert (M)	Female insert (F)		
Crimp terminal Order crimp contacts separately	09 12 005 3001	09 12 005 3101	<p> M: 39,5, 30,8, 21 F: 40, 31,4, 21 Contact arrangement view from termination side </p>	
Coding pin 		09 33 000 9954	<p>24, 4, 1,5</p>	Use of the coding pin prevents incorrect mating to other connectors of the same type. The male pin should be omitted from the opposing cavity in the male insert.

Han Q

Identification	Wire gauge (mm²)	Part number		Drawing	Dimensions in mm
		Male contact	Female contact		
Crimp contacts Power contacts silver plated 	0.14-0.37	09 33 000 6127 09 33 000 6121 09 33 000 6114 09 33 000 6105 09 33 000 6104 09 33 000 6102	09 33 000 6227 09 33 000 6220 09 33 000 6214 09 33 000 6205 09 33 000 6204 09 33 000 6202	<p> Operating contact Identification: 4,5, 2,5, 7,5, 25 Relay contact: 4,5, 2,5, 7,5, 22,2, 7,5, 22,8 </p>	
gold plated 	0.14-0.37	09 33 000 6117 09 33 000 6122 09 33 000 6115 09 33 000 6118 09 33 000 6116 09 33 000 6123	09 33 000 6217 09 33 000 6222 09 33 000 6215 09 33 000 6218 09 33 000 6216 09 33 000 6223		
Relay contact silver plated 	0.75-1 1.5 2.5	09 33 000 6109 09 33 000 6110 09 33 000 6111			
F.O. contacts for 1 mm plastic fibre		20 10 001 3311	20 10 001 3321	<p> Crimp zone: 4,5, 24,1 - 27,6, 1,05, 28, 1,05 </p>	

Identification	Wire gauge		Stripping length
no groove	0.14-0.37 mm²	AWG 26-22	7.5 mm
no groove	0.5 mm²	AWG 20	7.5 mm
1 groove*	0.75 mm²	AWG 18	7.5 mm
1 groove	1 mm²	AWG 18	7.5 mm
2 grooves	1.5 mm²	AWG 16	7.5 mm
3 grooves	2.5 mm²	AWG 14	7.5 mm

* on the back crimp collar

Crimp contacts 0.14 ... 0.37 mm² only used with BUCHANAN crimping tool 09 99 000 0001

Stock items in bold type

Features

- Innovative Han-Quick Lock® termination technology with up to 20% reduced wiring times
- Field assembly without special tools
- Compatible with Han® Q 5/0 standard inserts
- Compatible with plastic and metal hoods of series Han® 3 A
- Vibration and shock resistant

Technical characteristics

Specifications DIN EN 60 664-1
DIN EN 61 984

Approvals 

Inserts

Number of contacts	5 + PE
Electrical data acc. to EN 61 984	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

Rated voltage acc. to UL/CSA	600 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

Material	copper alloy
Surface	
- hard-silver plated	3 μm Ag
Contact resistance	≤ 1 mΩ
Quick Lock termination	
- mm ²	0.5 ... 2.5 mm ²
- AWG	20 ... 14

Hoods/Housings

Selection of hoods/housings see chapter 30 / chapter 31

Plastic hoods/housings

Material	polycarbonate
Flammability acc. to UL 94	V 0
Degree of protection acc. to DIN EN 60 529 for coupled connector	IP 67

Hoods/Housings, metal

Material	zinc die-cast
Degree of protection acc. to DIN EN 60 529 for coupled connector	IP 44
	IP 67 is achieved with seal screw 09 20 000 9918

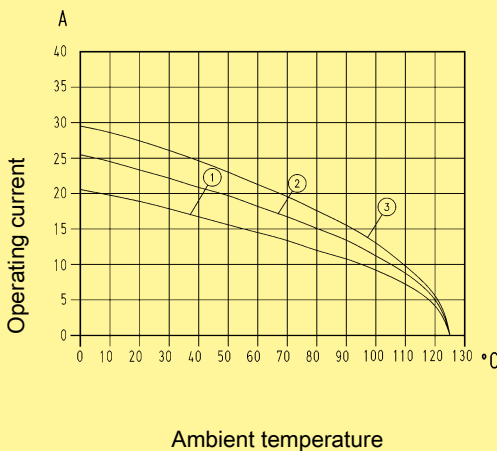
Accessories

Cable clamps	chapter 40
Sealing screw	chapter 40

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.

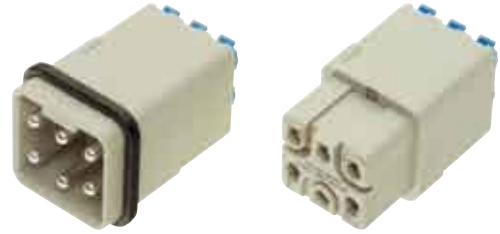
Measuring and testing techniques according to DIN EN 60 512-5



Wire gauge: ① 1.0 mm²
 ② 1.5 mm²
 ③ 2.5 mm²

Number of contacts

5 +



Identification	Part number		Drawing	Dimensions in mm
	Male insert (M)	Female insert (F)		
Quick Lock termination 	09 12 005 2633	09 12 005 2733		

Han
Q

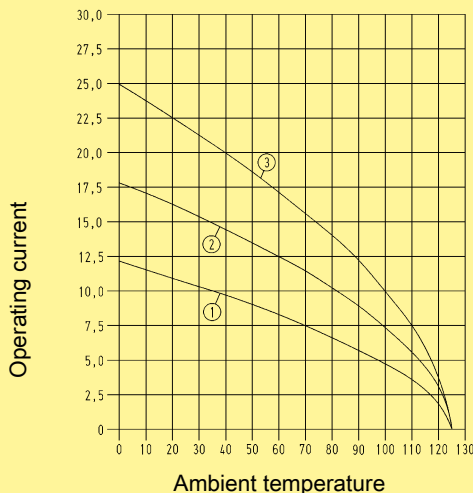
Features

- 7 contact chambers for crimp contacts of Han D® series
- Space-saving and compact design
- Leading protective ground with screw terminal
- Compatible with plastic and metal hoods of series Han® 3 A
- 6 different coding possibilities by means of coding pin

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 0.75 mm²
 - ② 1.5 mm²
 - ③ 2.5 mm²

Technical characteristics

Specifications: DIN VDE 0110, DIN EN 61 984

Approvals:

Inserts

Number of contacts	7 + PE
Electrical data acc. to EN 61 984	10 A 400 V 6 kV 3
Rated current	10 A
Rated voltage	400 V
Rated impulse voltage	6 kV
Pollution degree	3
Pollution degree 2 also	10 A 400/690 V 6 kV 2
Rated voltage acc. to UL/CSA	600 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

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
PE screw terminal	
- mm ²	2.5 mm ²
- AWG	14

Hoods/Housings

Selection of hoods/housings: see chapter 30 / chapter 31

Plastic hoods/housings

Material: polycarbonate
 Flammability acc. to UL 94: V 0
 Degree of protection acc. to DIN EN 60 529 for coupled connector: IP 67

Hoods/Housings, metal

Material: zinc die-cast
 Degree of protection acc. to DIN EN 60 529 for coupled connector: IP 44
 IP 67 is achieved with seal screw 09 20 000 9918

Accessories

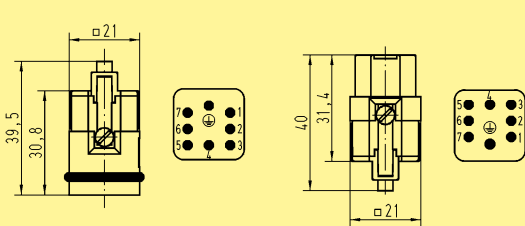

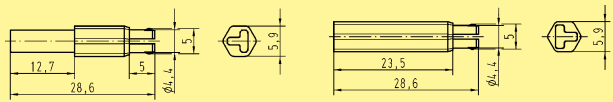
Crimping tools: chapter 99
 Cable clamps: chapter 40
 Sealing screw: chapter 40


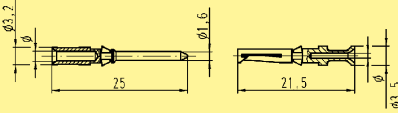

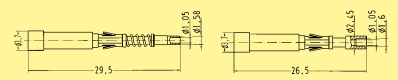
Han Q

Number of contacts

7 + 



Identification	Part number		Drawing	Dimensions in mm
	Male insert (M)	Female insert (F)		
Crimp terminal Order crimp contacts separately	09 12 007 3001	09 12 007 3101	 <p>Contact arrangement view from termination side</p>	
Coding pins 	09 12 000 9901	09 12 000 9902		

Identification	Wire gauge (mm²)	Part number		Drawing	Dimensions in mm																												
		Male contact	Female contact																														
Crimp contacts Power 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																														
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>∅</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 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	
Wire gauge		∅	Stripping length																														
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1.5 mm²	AWG 16	1.75	8 mm																														
2.5 mm²	AWG 14	2.25	6 mm																														
F.O. contacts for 1 mm plastic fibre		20 10 001 3211	20 10 001 3221																														

* Insert with crimp contacts 2.5 mm² partly loaded

Stock items in bold type

Han Q

Features

- 12 contact chambers taking the control contacts of the series Han D® with crimp termination
- 1 PE contact with innovative Han-Quick Lock® termination technology
- 2 coding pins offering 16 coding possibilities
- Inserts suitable for metal and plastic hoods and housings of the series Han® 3 A

Technical characteristics

Specifications DIN VDE 0627
DIN VDE 0110
DIN EN 61 984

Approvals 

Inserts

Number of contacts	12 + PE
Electrical data	
acc. to EN 61 984	10 A 400 V 6 kV 3
Rated current	10 A
Rated voltage	400 V
Rated impulse voltage	6 kV
Pollution degree	3
Pollution degree 2 also	10 A 400/690 V 6 kV 2
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
- 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
PE contact	Quick Lock termination
- mm ²	0.5 ... 2.5 mm ²
- AWG	20 ... 14

Hoods/Housings

Selection of hoods/housings see chapter 30 / chapter 31

Plastic hoods/housings

Material	polycarbonate
Flammability acc. to UL 94	V 0
Degree of protection acc. to DIN EN 60 529	
for coupled connector	IP 67

Hoods/Housings, metal

Material	zinc die-cast
Degree of protection acc. to DIN EN 60 529	
for coupled connector	IP 44
	IP 67 is achieved with seal screw 09 20 000 9918

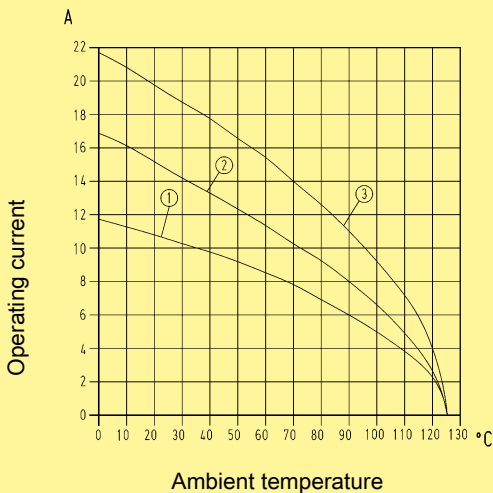
Accessories

Crimping tools	chapter 99
Cable clamps	chapter 40
Sealing screw	chapter 40

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.

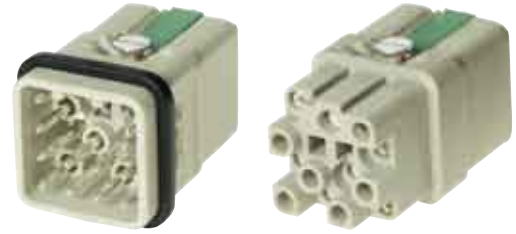
Measuring and testing techniques according to DIN EN 60 512-5



Wire gauge: ① 0.75 mm²
② 1.5 mm²
③ 2.5 mm²

Number of contacts

12 +



Identification	Part number		Drawing	Dimensions in mm
	Male insert (M)	Female insert (F)		
<p>Crimp terminal</p> <p>Order crimp contacts separately</p> <p>PE contact: Quick Lock termination</p>	09 12 012 3001	09 12 012 3101		
<p>Coding pins</p>	09 12 000 9924	09 12 000 9924		

Han Q

Identification	Wire gauge (mm²)	Part number		Drawing	Dimensions in mm																												
		Male contact	Female contact																														
<p>Crimp contacts</p> <p>Power contacts</p> <p>silver plated</p>	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																														
<p>gold plated</p>	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																														
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Wire gauge		∅	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																														

Stock items in bold type

Features

- 8 contact chambers for crimp contacts of Han E® series
- Space-saving and compact design
- Leading protective ground with crimp terminal
- Inserts suitable for metal and plastic hoods and housings of Han-Compact® series
- ISO 23 570 / DESINA conform product



Technical characteristics

Specifications DIN VDE 0110
DIN EN 61 984

Approvals

Inserts

Number of contacts	8 + PE
Electrical data acc. to EN 61 984	
Mounted plastic hood	16 A 500 V 6 kV 3
Rated current	16 A
Rated voltage	500 V
Rated impulse voltage	6 kV
Pollution degree	3
Pollution degree 2 also	16 A 400/690 V 6 kV 2
Mounted metal hood	16 A 230/400 V 4 kV 3

Rated voltage acc. to UL/CSA	500 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

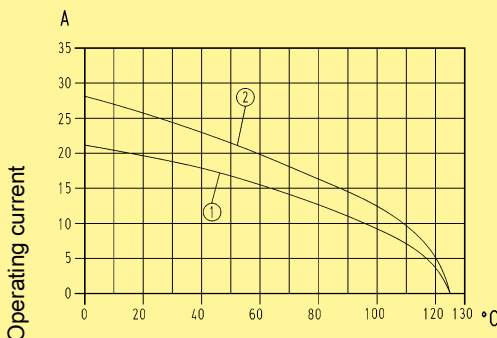
Contacts

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	
- mm ²	0.14 ... 4 mm ² partly loaded up to 4 mm ² is possible
- AWG	26 ... 12

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



Ambient temperature

Wire gauge: ① 1.5 mm²

② 2.5 mm²

Hoods/Housings

Plastic hoods/housings	
Material	polycarbonate
Locking element	Polyamide
Hoods/Housings sealing	NBR
Limiting temperatures	-40 °C ... 125 °C
Flammability acc. to UL 94	V 0
Degree of protection acc. to DIN EN 60 529 for coupled connector	IP 65

Hoods/Housings, metal	
Material	zinc die-cast
Locking element	Stainless steel
Hoods/Housings sealing	NBR
Limiting temperatures	-40 °C ... 125 °C
Degree of protection acc. to DIN EN 60 529 for coupled connector	IP 65

Accessories

Crimping tools chapter 99

Number of contacts

8 +



Identification	Part number		Drawing	Dimensions in mm
	Male insert (M)	Female insert (F)		
Crimp terminal Order crimp contacts separately	09 12 008 3001	09 12 008 3101		
Coding pin 		09 33 000 9954		Use of the coding pin prevents incorrect mating to other connectors of the same type. The male pin should be omitted from the opposing cavity in the male insert.

Han Q

Identification	Wire gauge (mm²)	Part number		Drawing	Dimensions in mm																																
		Male contact	Female contact																																		
Crimp contacts Power contacts silver plated 	0.14-0.37	09 33 000 6127	09 33 000 6227		<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>0.14-0.37 mm²</td> <td>AWG 26-22</td> <td>7.5 mm</td> </tr> <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>	Identification	Wire gauge		Stripping length	no groove	0.14-0.37 mm²	AWG 26-22	7.5 mm	no groove	0.5 mm²	AWG 20	7.5 mm	1 groove*	0.75 mm²	AWG 18	7.5 mm	1 groove	1 mm²	AWG 18	7.5 mm	2 grooves	1.5 mm²	AWG 16	7.5 mm	3 grooves	2.5 mm²	AWG 14	7.5 mm	no groove	4 mm²	AWG 12	7.5 mm
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no groove	4 mm²	AWG 12	7.5 mm																																		
gold plated 	0.14-0.37	09 33 000 6117	09 33 000 6217																																		
Relay contact silver plated 	0.75-1	09 33 000 6109	09 33 000 6219																																		
	1.5	09 33 000 6110	09 33 000 6220																																		
	2.5	09 33 000 6111	09 33 000 6221																																		
F.O. contacts for 1 mm plastic fibre		20 10 001 3311	20 10 001 3321																																		

Crimp contacts 0.14 ... 0.37 mm² only used with BUCHANAN crimping tool 09 99 000 0001

Stock items in bold type

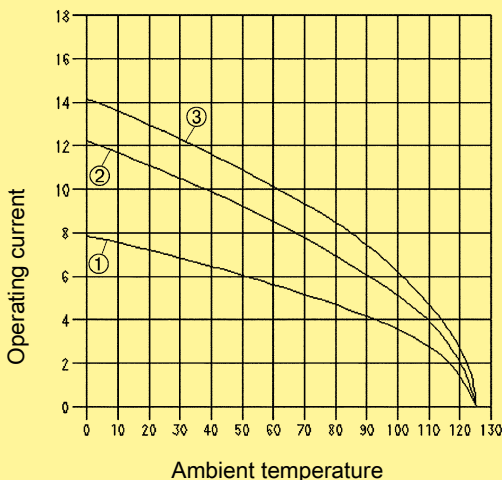
Features

- 17 contact chambers for crimp contacts of Han D® series
- Space-saving and compact design
- Leading protective ground with crimp terminal
- Inserts suitable for metal and plastic hoods and housings of Han-Compact® series
- 3 coding possibilities by using a coding pin instead of fixing screw

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 0.5 mm²
 - ② 1.0 mm²
 - ③ 1.5 mm²

Technical characteristics

Specifications: DIN VDE 0110, DIN EN 61 984

Approvals:

Inserts

Number of contacts	17 + PE
Electrical data acc. to EN 61 984	10 A 250 V 4 kV 2
Rated current	10 A
Rated voltage	250 V
Rated impulse voltage	4 kV
Pollution degree	2
Rated voltage acc. to UL/CSA	250 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

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

Plastic hoods/housings	
Material	polycarbonate
Locking element	Polyamide
Hoods/Housings sealing	NBR
Limiting temperatures	-40 °C ... 125 °C
Flammability acc. to UL 94	V 0
Degree of protection acc. to DIN EN 60 529 for coupled connector	IP 65
Hoods/Housings, metal	
Material	zinc die-cast
Locking element	Stainless steel
Hoods/Housings sealing	NBR
Limiting temperatures	-40 °C ... 125 °C
Degree of protection acc. to DIN EN 60 529 for coupled connector	IP 65

Accessories

Crimping tools: chapter 99

Number of contacts

17 +



Identification	Part number		Drawing	Dimensions in mm
	Male insert (M)	Female insert (F)		
Crimp terminal Order crimp contacts separately	09 12 017 3001	09 12 017 3101	<p>Contact arrangement view from termination side</p>	

Han Q

Identification	Wire gauge (mm²)	Part number		Drawing	Dimensions in mm																												
		Male contact	Female contact																														
Crimp contacts Power contacts silver plated	0.14-0.37 0.5 0.75 1 1.5 2.5*	09 15 000 6104	09 15 000 6204	<table border="1" style="margin-top: 10px;"> <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																														
gold plated	0.14-0.37 0.5 0.75 1 1.5 2.5*	09 15 000 6124	09 15 000 6224																														
F.O. contacts for 1 mm plastic fibre			20 10 001 3211	20 10 001 3221																													

* Insert with crimp contacts 2.5 mm² partly loaded

Stock items in bold type

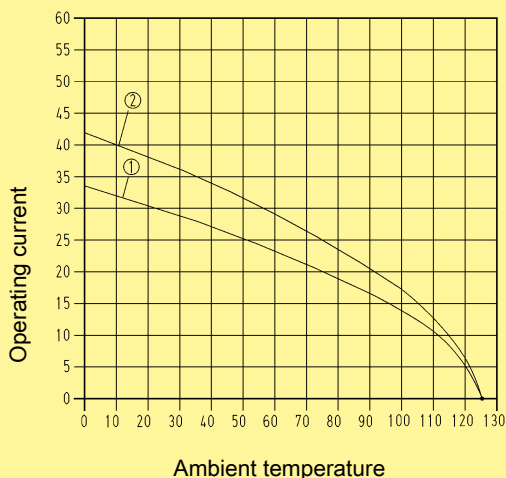
Features

- 4 power contacts Han® C and 2 signal contacts Han D®
- Finger protection
- Leading protective ground with crimp terminal
- Inserts suitable for metal and plastic hoods and housings of Han-Compact® series (not suitable for 19 12 008 0501, 19 12 708 0501 and 19 12 008 0502)
- 3 coding possibilities by using a coding pin instead of fixing screw

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 2.5 mm²

② 4 mm²

Technical characteristics

Specifications
DIN VDE 0110
DIN EN 61 984

Approvals 

Inserts

Number of contacts	4 / 2 + PE
Electrical data acc. to EN 61 984	
Power side	40 A 400/690 V 6 kV 3
Rated current	40 A
Rated voltage conductor - ground	400 V
Rated voltage conductor - conductor	690 V
Rated impulse voltage	6 kV
Pollution degree	3
Signal side	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 / 250 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

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 / 0.14 ... 2.5 mm ²
- AWG	16 ... 10 / 26 ... 14
Max. insulation diameter - Power contacts	5 mm

Hoods/Housings

Plastic hoods/housings	
Material	polycarbonate
Locking element	Polyamide
Hoods/Housings sealing	NBR
Limiting temperatures	-40 °C ... 125 °C
Flammability acc. to UL 94	V 0
Degree of protection acc. to DIN EN 60 529 for coupled connector	IP 65

Accessories

Crimping tools	chapter 99
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Number of contacts

4/2 +



Identification	Part number		Drawing	Dimensions in mm
	Male insert (M)	Female insert (F)		
Crimp terminal Order crimp contacts separately	09 12 006 3041	09 12 006 3141	<p>Contact arrangement view from termination side</p>	

Identification	Wire gauge (mm²)	Part number		Drawing	Dimensions in mm																												
		Male contact	Female contact																														
Crimp contacts Han® C 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>∅</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		∅	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									
Wire gauge		∅	Stripping length																														
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6 mm²	AWG 10	3.5	9.6 mm																														
Han D® contacts 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																														
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																														
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Stock items in bold type

Features

- Combination connector / Ethernet connector based on RJ45 / additionally maximum 10 signal D-Sub contacts, crimp terminal
- Compact design
- High contact density
- Turned D-Sub contacts of performance level 1*
- Suitable for hoods and housings of series Han-Compact®

Technical characteristics

Specifications	DIN VDE 0110 DIN EN 61 984
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Inserts

Ethernet connector

Terminal	RJ45 acc. to IEC 60 603-7
Wire gauge	AWG 24 - 26 flexible
Transmission features	Cat 5e
Number of contacts	8

Signal side

Number of contacts	10
Electrical data	
acc. to EN 61 984	5 A 50 V 0.8 kV 3
Rated current	5 A
Rated voltage	50 V
Rated impulse voltage	0.8 kV
Pollution degree	3

Insulation resistance	≥ 10 ¹⁰ Ω
Material	polycarbonate
Limiting temperatures	-40 °C ... 85 °C
Flammability acc. to UL 94	V 0
Mechanical working life	
- mating cycles	≥ 500

Contacts

Crimp terminal	
- mm ²	0.13 ... 0.52 mm ²
- AWG	26 ... 20
turned contacts	Performance level 1 as per CECC 75 301-802, 500 mating cycles, 10 days 4 mixed gas test - IEC 60 512

Hoods/Housings

Plastic hoods/housings

Material	polycarbonate
Locking element	Polyamide
Hoods/Housings sealing	NBR
Limiting temperatures	-40 °C ... 125 °C
Flammability acc. to UL 94	V 0
Degree of protection acc. to DIN EN 60 529 for coupled connector	IP 65

Hoods/Housings, metal

Material	zinc die-cast
Locking element	Stainless steel
Hoods/Housings sealing	NBR
Limiting temperatures	-40 °C ... 125 °C
Degree of protection acc. to DIN EN 60 529 for coupled connector	IP 65

Number of contacts

8



Identification	Part number		Drawing	Dimensions in mm
	Male insert (M)	Female insert (F)		
<p>Crimp terminal</p> <p>Order crimp contacts separately female insert usable for panel feed through for patch cables</p>	09 12 011 3001	09 12 011 3111		


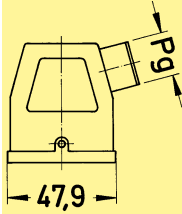
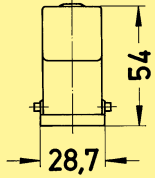

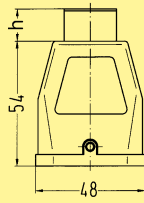
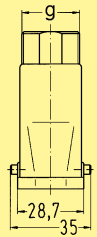

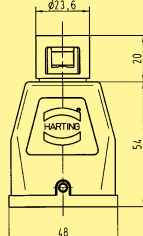
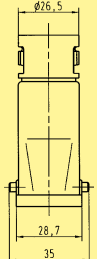

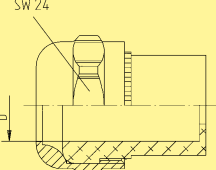
Han Q

Identification	Wire gauge (mm²)	Part number		Drawing	Dimensions in mm									
		Male contact	Female contact											
<p>Individual contacts</p> <p>Han® D-Sub contacts gold plated</p>	0.13-0.33 0.33-0.52	61 03 000 0094 61 03 000 0073	61 03 000 0096 61 03 000 0074	<table border="1"> <thead> <tr> <th colspan="2">Wire gauge</th> <th>Stripping length</th> </tr> </thead> <tbody> <tr> <td>0.13-0.33 mm²</td> <td>AWG 26-22</td> <td>5 mm</td> </tr> <tr> <td>0.33-0.52 mm²</td> <td>AWG 22-20</td> <td>5 mm</td> </tr> </tbody> </table>	Wire gauge		Stripping length	0.13-0.33 mm²	AWG 26-22	5 mm	0.33-0.52 mm²	AWG 22-20	5 mm	
Wire gauge		Stripping length												
0.13-0.33 mm²	AWG 26-22	5 mm												
0.33-0.52 mm²	AWG 22-20	5 mm												
<p>RJ45 Plug AMP (for replacement)</p> <p>AWG 24 ... 26 Ø 0.89 mm ... 0.99 mm</p>		09 12 000 9958												

13
21

Stock items in bold type

thermoplastic / metal

Identification	Part number	Drawing	Dimensions in mm																				
<p>Hoods</p> <p>Hoods</p> <p>Thermoplastic side-entry Cable gland order separately</p> 	<p>09 12 008 0527</p>	<p>Pg 16</p> 																					
<p>Hoods</p> <p>Thermoplastic top-entry Cable gland order separately</p> 	<p>19 12 008 0429 09 12 008 0427 09 12 008 0429</p>	<p>M 25 Pg 16 Pg 21</p> 	 <table border="1"> <thead> <tr> <th>h</th> <th>g</th> </tr> </thead> <tbody> <tr> <td>14</td> <td>M 25x1.5</td> </tr> <tr> <td>13</td> <td>Pg 16</td> </tr> <tr> <td>13</td> <td>Pg 21</td> </tr> </tbody> </table>	h	g	14	M 25x1.5	13	Pg 16	13	Pg 21												
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14	M 25x1.5																						
13	Pg 16																						
13	Pg 21																						
<p>Hoods</p> <p>Thermoplastic top-entry for flexible conduits Adaptaflex PAFS18</p> 	<p>09 12 008 0428</p>	<p>PAFS 18</p> 																					
<p>Cable seal</p> <p>Thermoplastic for hoods Thrust bolt and insert</p> 	<p>09 00 000 5059 19 12 000 5157 19 12 000 5158 09 00 000 5157 09 00 000 5158</p>	<p>Pg 16 M 25 M 25 Pg 21 Pg 21</p> 	<table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">cable</th> </tr> <tr> <th>min.</th> <th>max.</th> </tr> </thead> <tbody> <tr> <td>09 00 000 5059</td> <td>11.5 mm</td> <td>15.5 mm</td> </tr> <tr> <td>19 12 000 5157</td> <td>10.5 mm</td> <td>14 mm</td> </tr> <tr> <td>19 12 000 5158</td> <td>14 mm</td> <td>17 mm</td> </tr> <tr> <td>09 00 000 5157</td> <td>14 mm</td> <td>18 mm</td> </tr> <tr> <td>09 00 000 5158</td> <td>17 mm</td> <td>20.5 mm</td> </tr> </tbody> </table>		cable		min.	max.	09 00 000 5059	11.5 mm	15.5 mm	19 12 000 5157	10.5 mm	14 mm	19 12 000 5158	14 mm	17 mm	09 00 000 5157	14 mm	18 mm	09 00 000 5158	17 mm	20.5 mm
	cable																						
	min.	max.																					
09 00 000 5059	11.5 mm	15.5 mm																					
19 12 000 5157	10.5 mm	14 mm																					
19 12 000 5158	14 mm	17 mm																					
09 00 000 5157	14 mm	18 mm																					
09 00 000 5158	17 mm	20.5 mm																					


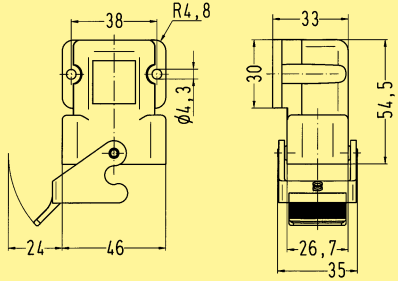

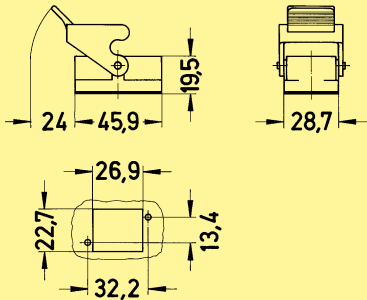

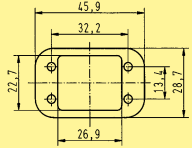

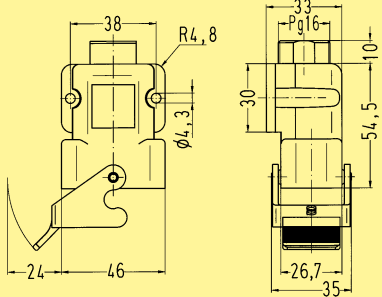

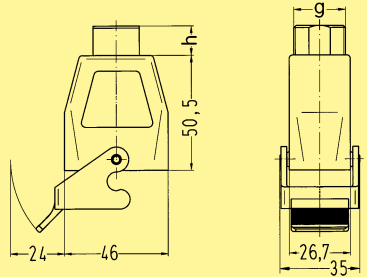
thermoplastic / metal

Identification	Part number	Drawing	Dimensions in mm											
Hoods Hoods Metal side-entry Cable gland order separately	19 12 008 0526 matt nickel plated 19 12 008 0528													
Hoods Metal side-entry Cable gland order separately	black chromated 19 12 008 0501 black powder coated 19 12 708 0501 matt nickel plated 19 12 008 0502													
Hoods Metal top-entry Cable gland order separately	19 12 008 0426													
Cable seal Metal for hoods Thrust bolt and insert	19 12 000 5057 19 12 000 5058		<table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">cable</th> </tr> <tr> <th>min.</th> <th>max.</th> </tr> </thead> <tbody> <tr> <td>19 12 000 5057</td> <td>10.5 mm</td> <td>14 mm</td> </tr> <tr> <td>19 12 000 5058</td> <td>14 mm</td> <td>17 mm</td> </tr> </tbody> </table>		cable		min.	max.	19 12 000 5057	10.5 mm	14 mm	19 12 000 5058	14 mm	17 mm
	cable													
	min.	max.												
19 12 000 5057	10.5 mm	14 mm												
19 12 000 5058	14 mm	17 mm												


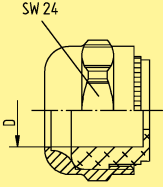

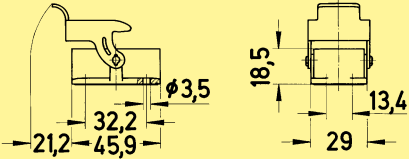
Han Q

Identification	Part number		Drawing	Dimensions in mm
	for male insert	for female insert		
Protection covers Thermoplastic for male insert	without sealing 09 12 008 5407	with sealing 09 12 008 5408		

thermoplastic / metal

Identification	Part number	Drawing	Dimensions in mm						
Housings Housings, bulkhead mounting Thermoplastic angled 	09 12 008 0902	—							
Housings, bulkhead mounting Thermoplastic 	09 12 008 0327	—							
Gasket for housings bulkhead mounting Han® Q 8/0 	09 12 000 9912	—							
Housings, surface mounting Thermoplastic angled Cable gland order separately 	09 12 008 0901	Pg 16							
Hoods, cable to cable Thermoplastic Cable gland order separately 	09 12 008 0727 19 12 008 0729	Pg 16 M 25	 <table border="1" data-bbox="963 1966 1147 2058"> <thead> <tr> <th>h</th> <th>g</th> </tr> </thead> <tbody> <tr> <td>13</td> <td>Pg 16</td> </tr> <tr> <td>14</td> <td>M 25x1.5</td> </tr> </tbody> </table>	h	g	13	Pg 16	14	M 25x1.5
h	g								
13	Pg 16								
14	M 25x1.5								

thermoplastic / metal

Identification	Part number	Drawing	Dimensions in mm											
<p>Housings</p> <p>Cable seal</p> <p>Thermoplastic for housings Thrust bolt and insert</p> 	<p>09 00 000 5058 09 00 000 5057</p>	<p>Pg 16 Pg 16</p>	 <table border="1" data-bbox="995 566 1382 685"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">cable</th> </tr> <tr> <th>min.</th> <th>max.</th> </tr> </thead> <tbody> <tr> <td>09 00 000 5058</td> <td>11.5 mm</td> <td>15.5 mm</td> </tr> <tr> <td>09 00 000 5057</td> <td>6.5 mm</td> <td>9.5 mm</td> </tr> </tbody> </table>		cable		min.	max.	09 00 000 5058	11.5 mm	15.5 mm	09 00 000 5057	6.5 mm	9.5 mm
	cable													
	min.	max.												
09 00 000 5058	11.5 mm	15.5 mm												
09 00 000 5057	6.5 mm	9.5 mm												
<p>Housings, bulkhead mounting</p> <p>Metal</p> 	<p>black chromated 09 12 008 0301</p> <p>black powder coated 09 12 708 0301</p> <p>matt nickel plated 09 12 008 0303</p>													

Han Q



ET 200pro distributed I/O system with degree of protection IP 65 / IP 67
Siemens AG, Erlangen, Germany

Han
Q